



Apps Unveiled

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THE TEST CASE

NO FORCE CAN FORCE HER OUT

STREAMING NOW

Cover Story

11 BEST EDUCATIONAL APPS FOR KIDS

In Conversation with

Sandeep Aggarwal

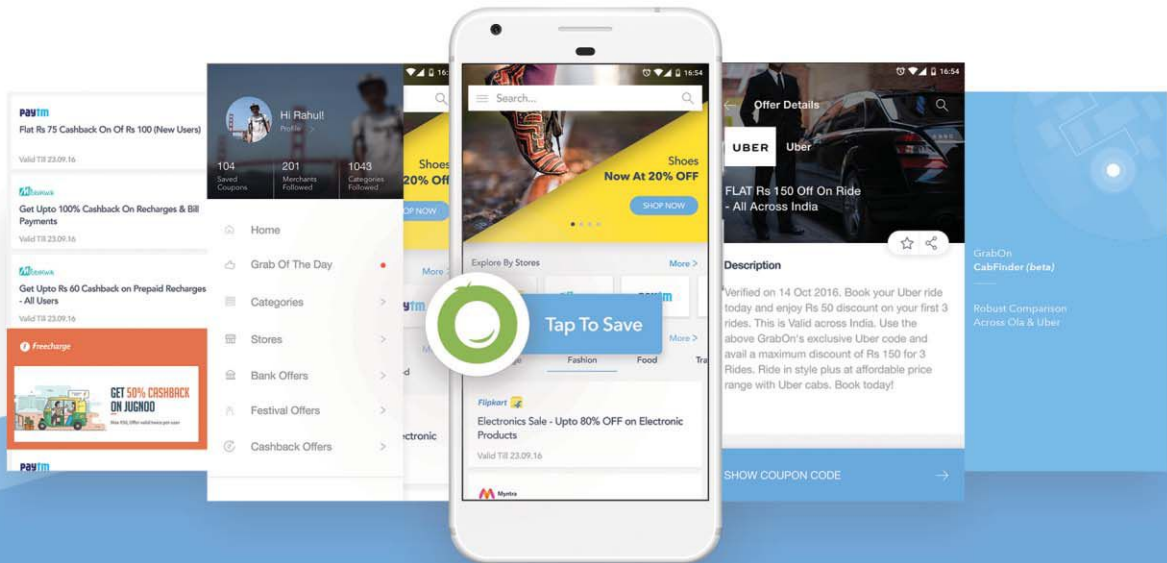
Founder & CEO
SHOPCLUES & DROOM

Gadgets Corner

SAMSUNG Galaxy S8 & S8+

vivo V5 S

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READ-TRY-EXPERIENCE

COVER STORY

11 BEST EDUCATIONAL APPS FOR KIDS

APP OF THE MONTH



bāhubali THE GAME



Gadgets
Corner

TESTED

vivo V5 S

SAMSUNG
Galaxy S8 & S8+

Let's Play



MouseBot



Monsu2



Editor's
Choice
Journey

A beautiful app to
Record your Life's Journey on the go!

Learn more about
Bot-to-Bot
Communication Channel
InterBot
Pg 24

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In Conversation with
Sandeep Aggarwal, Founder & CEO, ShopClues & Droom

a note from the EDITOR

As we all know that kids nowadays play with touchscreens more than traditional toys, and it has become increasingly difficult for parents to keep their devices out of the reach of their children. This is mainly because the phone has now become the 'smartphone', and yes, an integral part of our lives – irrespective of our age and profession. We simply can't live without our gadgets, so our kids – they always want our smartphone/tablet to play games. With that in mind, we have reviewed 11 Best Educational Apps for Kids that parents can download on their devices, if they want their little ones to learn something new while playing. To know more, please check out our Cover Story on '11 Best Educational Apps for Kids' from Page 6.

This month the 'App of the Month' title goes to "Baahubali: The Game". Inspired by S.S. Rajamouli's superhit epic film "Baahubali", this game is a Clash of Clans style Massive Multiplayer Online game. Set in the fictional kingdom of Mahishmati, the overall objective is to fight with the forces of the evil Kalakeya by building the strongest army, with the aid of the Baahubali heroes. Excited to know more? Check out our review of this game on Page 17. Also, we have reviewed the recently-released hits 'MouseBot' and 'Monstu' in our 'Games' section.

We have also tested the latest Samsung Galaxy S8 and S8+, and VIVO V5s in the 'Gadgets Corner' section. What's more, learn about the recently launched bot-to-bot communication channel 'InterBot' and how it works.

Hope you enjoy reading the new Apps Unveiled 😊

Be Appintelligent!

Jyoti Aggarwal

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- ✓ Vistoso App
- ✓ Vodafone-SaveLIFE Road Safe App
- ✓ Bot-to-Bot Communication Platform 'InterBot'

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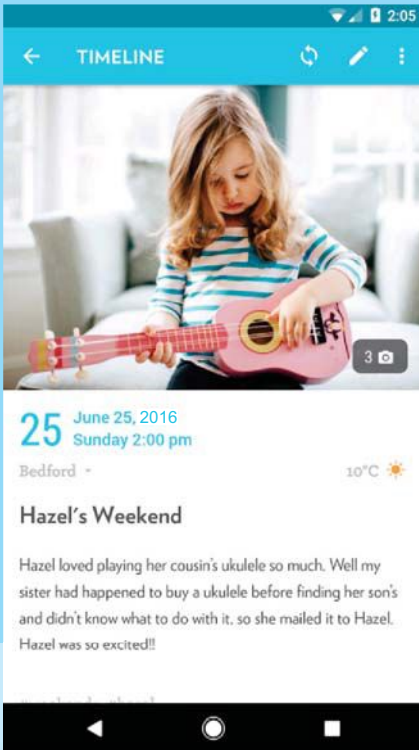


Journey

Available on: Price: Free (offers in-app purchases)

A beautiful app to record your Life's Journey On the Go!

For anyone who loves writing journals, the most difficult part is regularly maintaining them. Due to time constraints, we often end up missing out on capturing several great life moments. With smartphones becoming the central part of our lives, journals have also gone digital. There are numerous apps available that let you write a journal on the go and at the same time offer a lot of other features. One such app that could be a perfect solution for your daily journal writing is the *Journey* app.



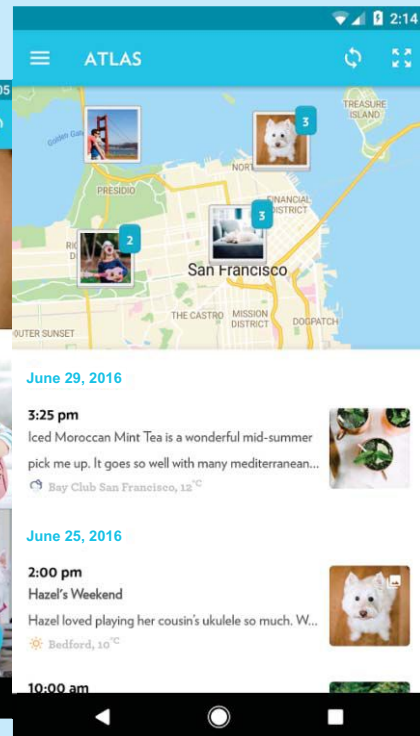
HOW IT WORKS

Getting started on *Journey* is very easy. No sooner than you launch the app, it seeks your permission to access one of your existing Google Accounts (already in use on your device) in order to sync the data using Google Drive. This feature enables you to access your Journey diary across all your devices, including PC and Mac (via Journey's website). There's no complicated setup involved, just sign in and you're good to go.

The app's easy-to-use user interface makes it incredibly easy to jot down a quick thought or summarize a whole day by tagging specific locations, photos, video clips, and much more to your entries. You can edit your entries any time. However, there are a couple of limitations; for instance, you can either include one video or maximum four photos per entry.

The app offers some exciting features that enhance the overall experience of journaling the moments on the go. It automatically retrieves information such as the location, weather, and motion activity, and it neatly organizes your entries in a calendar view. You can also add tags to your entries, which also means you can easily search for entries using those tags. Not just that, you can also browse your journal by photo, video clip, and location. Moreover, the

Add tags, photos, videos, or location to your posts



app allows you to publish your entry on social media, or take a print of it.

The 'Settings' tab allows you to set daily reminders, and choose the font type, font size, line spacing, and other options to your liking. You can also password-protect your journal with a PIN, so no one else can "accidentally" look at your private thoughts. It appears that the developers have taken a lot of efforts in making the app user-friendly.

What's more, you can upgrade the app via one-time in-app purchase (INR 230 approx.) to unlock premium features

such as markdown preview and syntax highlighting, dashboard (it lists recently used devices with date and time), DOCX export, export/backup/print multiple entries, night mode, throwback (a sudden reminder of old memories), remove watermark, and integration with Google Fit.

To sum up, if you've been looking for the best journaling app on Android, your search is over. *Journey* is a beautiful app to record your life moments anytime, anywhere. It is your digital diary with advanced features.

11 BEST EDUCATIONAL APPS FOR CHILDREN TO LEARN WHILE PLAYING



GRAMMAROPOLIS



MAGIC CANVAS



TODO MATH



MY INCREDIBLE BODY



SAGO MINI FRIENDS



KIDLOLAND



FISH SCHOOL



CHATTERPIX KIDS



ROOPLAY



TOCA NATURE



ABC KIDS - TRACING & PHONICS





Welcome to *Grammaropolis*, where grammar lives! This is a great app for parents and teachers to help kids learn the parts of speech through interactive videos, illustrated short books and quizzes.



GRAMMAROPOLIS

AGE 8+

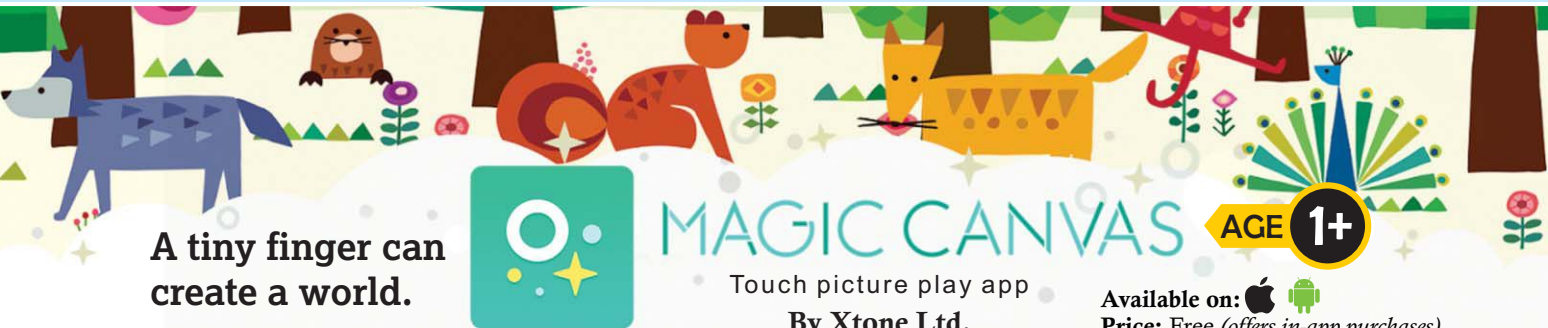
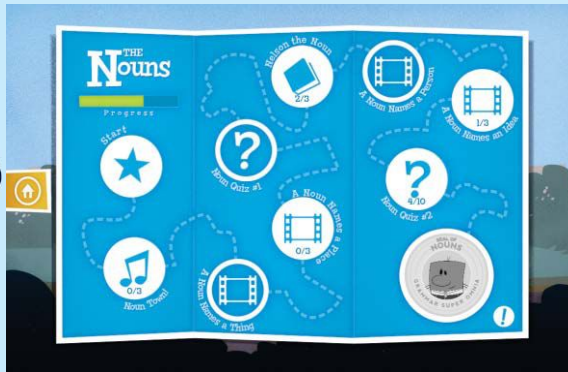
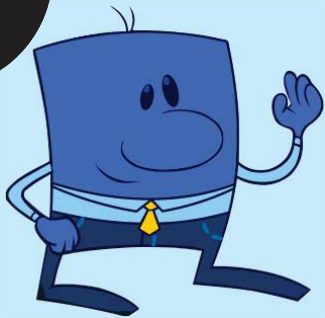
Available on: Price: Free (offers in-app purchases)

The app uses the parts of speech as animated characters whose personalities are based on the roles they play in the sentence. These animated characters interact with one another in the imaginary world of *Grammaropolis* in ways that make learning grammar more fun and engaging. For example, Nelson Noun worries about losing work to Roger Pronoun, whereas Connie Conjunction always tries that everyone get along.



Kids can learn about nouns, pronouns, adjectives, verbs, adverbs, interjections, prepositions, and conjunctions by watching fun music videos, reading illustrated books, and participating in quizzes for assessment. The app explains each part of speech in depth. For instance, the Nouns section first defines what is a noun, and then its types, i.e. common/proper nouns, concrete/ abstract nouns, and collective/compound nouns with examples.

The app is free to download, but the free version allows you to access only Nouns. Other parts of speech can be unlocked via in-app purchases.



A tiny finger can create a world.



MAGIC CANVAS

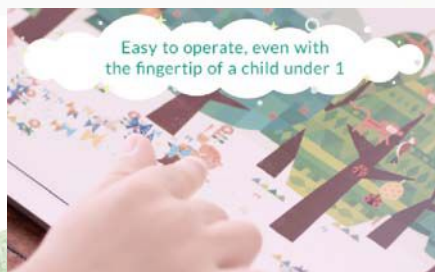
AGE 1+

Touch picture play app

By Xtone Ltd.

Available on: Price: Free (offers in-app purchases)

Small children are often curious by nature, and they tend to experience new things by listening, watching, and touching. *Magic Canvas* app aims to stimulate their curiosity, to support their infinite possibilities by fostering parent-child communication. With *Magic Canvas* app, children can have fun while working on their motor skills and vocabulary by interacting with various illustrations.



The way this app works is quite simple. It presents you with various canvas themes, namely, Ocean, Forest, Space, Lakeside, Night Sky, and Underground, letting your kids create a world of their own with a tap and a swipe.

Each theme takes your child to an amazing and beautiful world. With a tap of a little one's finger on a blank area, fascinating illustrations pop up one after another, creating a beautiful world to interact with. All the animated characters come to life in each scene with just one tap and it looks like a magic. This app would definitely make your child smile 😊

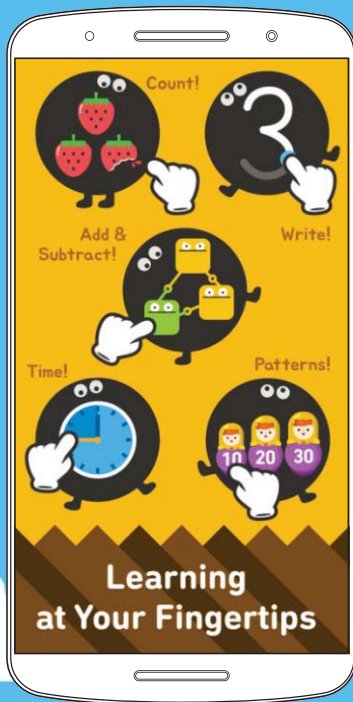
TODO MATH

AGE 5+

By Enuma, Inc.

Designed for children in pre-K through 2nd grade, *Todo Math* app takes your child on a daily math adventure. The app includes 28+ multi-level engaging math games and 60+ Common Core State standards-aligned missions to help your child build fluency as well as conceptual understanding of early math.

The best part about this app is that children with learning differences, such as underdeveloped fine motor skills, or children with dyslexia can also learn and practice math concepts through this app.



This is an app with beautiful user interface, cheerful music and lovable collectible monsters, which offers 3 learning modes, i.e. *Daily Adventure*, *Mission mode*, and *Free Choice* mode. The app uses visuals, auditory prompts and purposeful touch to teach math concepts.

Children can learn early concepts of math like number tracing, basic counting, patterns, tallies, shape tracing, basic equations (addition, subtraction, and multiplication), number balance, and so on by practicing daily for 10-15 minutes in the 'Daily Adventure' mode.

In the 'Free Choice' mode, children can practice any key concept n number of times in a self-paced learning environment. And, the 'Mission' mode offers 60+ standards-aligned missions, from the Pre-K mission "Easy Numbers" to the 2nd grade mission "Quick Multiplication Drill". Each mission contains multi-level activities that encourage children to solve 15-20 math problems in a row.

The app also includes collectible monsters-based quizzes to encourage routine practice and test children's math skills they have been practicing through Missions and Free Choice activities.

The app allows parents to set up multiple user profiles and track their children recently played games and time spent learning and practicing math concepts on a daily basis. While setting up a profile, parents can also choose to on/off dyslexic font, number keypad (recommended for children who have trouble with fine motor skills or writing numbers), left-handed mode, help

Available on:

Price: Free (offers in-app purchases)



button (to enable subtle clues to help children solve problems).

The app's free version allows your kids to play only the initial levels of every game, and obviously, it means that the full version is available on a subscription basis (via in-app purchases).

To sum up, *Todo Math* is the fun, research-based, kid-tested, educator approved, alternative to supplementary math workbooks.

My Incredible Body app is an interactive human anatomy guide that is both medically accurate and fun for kids. Immersive 3D models take kids inside the body to see and identify organs and learn amazing facts about how the body works. Kids can virtually dissect 3D models.



my incredible body

AGE 9+

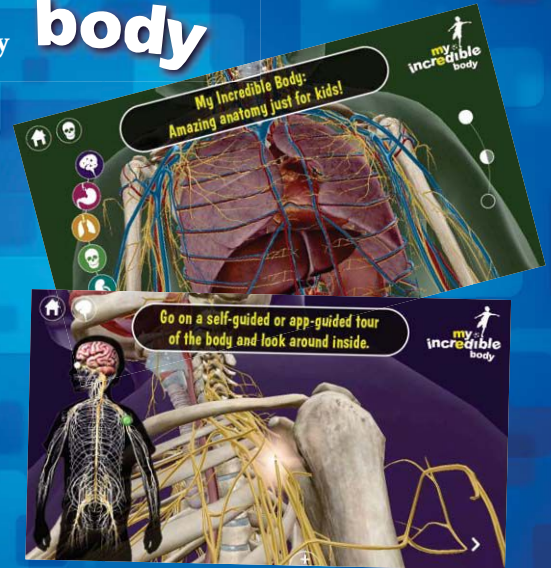
By Visible Body

Available on:

Price: INR 1600 – 1950 approx. (\$ 24.99)

With the help of *My Incredible Body* app, your kids can:-

- ☑ Zoom inside the skeleton, muscles, organs, nerves, and blood vessels to learn where everything is and how all the parts of human body function. The app also includes short illustrated videos for better understanding.
- ☑ Take rocket rides through the different body systems to experience how blood flows, how the brain sends or receives the message, or how the body does its swallowing and digesting, for example.
- ☑ Listen to fun science facts and take quizzes to test their knowledge.



Overall, this app is a great learning tool for kids and probably their parents too. The app also includes the topic 'Reproductive System' as an in-app purchase; it helps parents introduce the concepts of puberty and human reproduction to their kids at just the right level.

Learn through play



Sago Mini Friends

AGE 2+

Available on:
Price: Free

In the *Sago Mini Friends* app, kids visit their animal friends to play mini-games together. This playful app is best for kids who like to explore independently, without rules or guidance. The app is made for kids ages four and under, who love to play "again, again!"

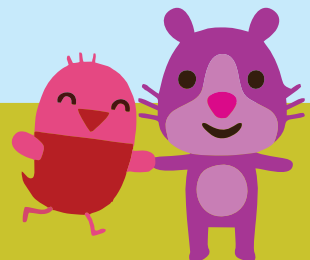
How to Play

Kids start by choosing to be one of the five Sago Mini characters, and they will then be transported to a street full of houses, each with a different friend looking out of the window. Kids can decide which friend's house they want to visit by ringing the doorbell. Kids get to play interactive mini-games at each home, for example, blow up balloons and watch them float away, water a plant, wash dishes, play dress-up, fix a birdhouse, eat fruits, play with trains, have a sleepover, and more. There are 10 mini-games in total.

Each activity helps parents teach a wonderful lesson to their toddlers, for example, why do plants need water, how to dress-up, or why one should eat fruits.



More than 10 fun activities





KidloLand

AGE 1+

By Internet Design Zone

Available on:
 Price: Free (offers in-app purchases)
 *7-day free trial

Get access to hundreds of nursery rhymes, educational songs, games & stories to keep your toddler busy, letting him learn while playing.

Welcome to the world *KidloLand*, an award-winning app loaded with hundreds of educational songs and stories with interactive activities so that your kids can learn about fruits, vegetables, animals, birds, alphabets, numbers, colors, vehicles, shapes, days of the week, and much more on the go. Not just that, the app also includes 100+ classic nursery rhymes, educational games, and 300+ engaging activities that would help develop a child's fine motor skills, in addition to pre-math skills, sequencing skills, picture & number comprehension ability, imagination and creativity.

KEY HIGHLIGHTS:

- ✓ Much of the learning content is presented in the form of sing-along song videos.
- ✓ Educational songs can also be downloaded for offline use. And, parents can also create playlists to play up to 25 songs back-to-back.
- ✓ KidloLand videos are interactive. Kids can play along with the animated characters they see on the screen by tapping on them.
- ✓ The app is free to download, but you need to subscribe to unlock the full version. However, the app offers 7-day free trial of its full version.
- ✓ You can also download *KidloLand Lite* app (available for iPhone/iPad), if you are interested only in the free educational songs and games.
- ✓ The app is certified safe for kids by the KidSAFE program. Plus, it is totally ad-free.



An easy-to-use app for little ones to learn ABCD, numbers, colors, and shapes.



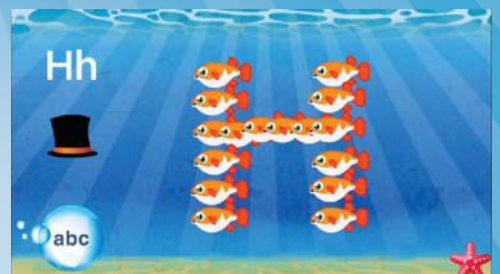
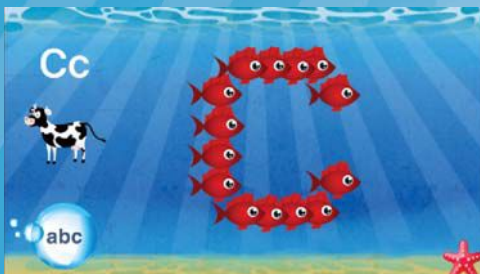
Fish School

AGE 2+

Available on:
 Price: Free

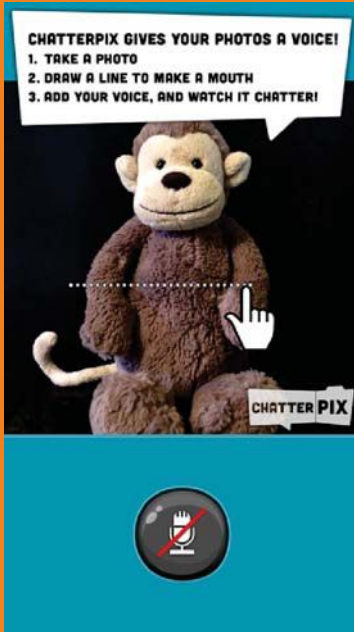
By Duck Duck Moose

Fish School app is an early learning app for little ones to learn alphabets (A-Z), numbers and counting (1-20), colors, shapes, matching, and differences (find the fish that looks different) through fun and colorful play. Your kid can watch brightly colored schools of fish form alphabets, numbers, and shapes. Plus, kids can make the fish swim and do funny things with a simple touch, tap and drag in the 'Play' mode. There are no ads or in-app purchases.



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A go-to creative app for kids to make photographs talk!

CHATTER PIX KIDS

AGE 5+
By Duck Duck Moose

Give your photos a voice!

Available on: Price: Free

This app allows kids to make photographs talk. Kids can take a picture of anything, for example, their toy, book, or drawing, and make them talk. The app's user interface is kid-friendly, and so simple to use. After taking a picture, the app prompts kids to draw a line on the photo to create a mouth, and record a message in their own voice for up to 30 seconds. Kids can also embellish a photo with stickers, text and frames. All talking photographs will get saved to the app's built-in gallery. Parents can export them to the camera roll and share their kids' creativity on social media platforms from there.



500+ hand-picked interactive games and activities to entertain and develop young minds



ROOPLAY

AGE 2+

Available on: Price: Free (offers in-app purchases) *1-month free trial

By Rooplay Media Ltd.

Rooplay app offers over 500 hand-picked interactive activities for young children and families to play, learn, and create together. From puzzle and memory games, to learning and skill games, *Rooplay* app features an unparalleled variety of interactive activities for children ages 2-8 to discover on their own, or with a parent.

There are games and activities to practice math skills, learn ABCD, shapes and counting, solve jigsaw puzzles, fun coloring books, racing & arcade games, and much more for your kids. You just name the game or an activity, and *Rooplay* app has in its portfolio. With its playful ad-free premise and ease of use, the app would keep preschoolers entertained and fascinated for a good amount of time.

It is worth mentioning that kids will get to play only 50 games for free every day, but parents have an option to subscribe to start their 1-month free trial, unlocking all 500+ games for a month. After 1-month free trial period, it will cost INR 99.99 per month.



500+ GAMES FOR KIDS

Developer *Toca Boca* has created a name for itself by designing kid-friendly apps that empower kids to be playful, to be creative and to be who they want to be. We picked their app named *Toca Nature*, which allows little ones to create and interact with the mesmerizing natural landscape. In other words, it's an app that helps kids learn about the wonders of nature by building and taking care of the forest using their own imagination and creativity.



Toca NATURE

AGE 4+

Available on:
 Price: INR 150 to 250 (or \$2.99)

By Toca Boca

Toca Nature is a creative and interactive game where the kids can use their imagination to build landscapes. At the beginning of the game, kids will see a piece of land floating in space and their job is to raise up mountains, create water-filled holes, and plant trees – using the tools placed at the bottom of the screen. As kids build their forest, animals, namely, wolf, bear, rabbit, fox, woodpecker, deer, and fish will start showing up.

only found on snowy mountains and foxes in a forest of oaks. Kids are also supposed to collect berries, mushrooms, and nuts to feed the animals. Kids can also zoom in and explore the virtual landscapes they've created, and tap on the built-in camera icon to capture various moments. For example, kids can capture the moment of woodpeckers zigzagging between trees. All in all, it is a thoughtfully designed educational game that parents must download to introduce the wonders of nature to their children.

Each animal is tied to a specific nature type, for example, wolves are



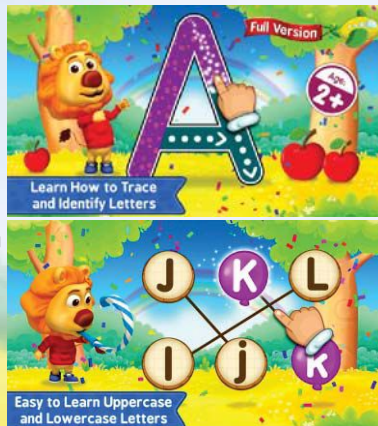
A colorful early education app that helps children learn the English alphabet.



ABC KIDS - TRACING & PHONICS

AGE 2+

Available on: By RV AppStudios LLC
 Price: Free



ABC Kids is a phonics and alphabet teaching app that makes learning fun for children, from toddlers all the way to preschoolers and kindergartners. The app requires children to use their forefinger to trace letters by following the arrows, match capital and lowercase letters, and identify a prompted letter from an array. Smart ad-free interface helps kids focus on phonics and letters without accidentally exiting the app. However, co-play with a parent is encouraged to assist with letter recognition, and tracing.

Fun Phonics Sounds from A to Z

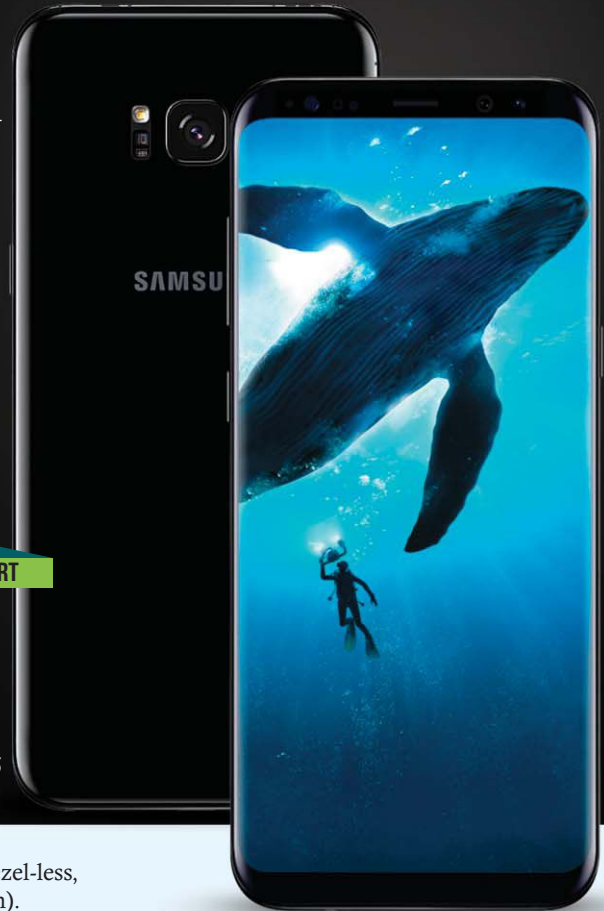
SAMSUNG Galaxy S8

QUICK LOOK

-  Launched in India, April 2017
-  155g, 8.0mm thickness
-  5.8-inch Quad-HD Infinity Display (Super AMOLED), 2960X1440p
-  Android v7.0 Nougat with Samsung Bixby Personal Assistant button
-  12MP with f/1.7 Aperture, PDAF, dual-LED flash
-  8MP with f/1.7 Aperture, autofocus
-  4GB RAM
-  Samsung's Exynos 8895 chipset, 64 bit, 10nm processor
Octa-core (4 x 2.3GHz Quad + 4 x 1.7GHz Quad)
Mali-G71 MP20 GPU
-  64 GB Internal Memory
-  Midnight Black, Maple Gold
-  3000mAh battery with fast charging on wired and wireless
- ✓ IRIS Scanner ✓ Fingerprint Scanner ✓ Facial Recognition
- ✓ Google Assistant ✓ Samsung Pay Integrated
- ✓ IP68 water and dust resistance ✓ Dual SIM (Hybrid Slot)
- ✓ microSD Card (expandable up to 256GB) ✓ Corning Gorilla Glass 5
- ✓ Wireless Charging compatible with WPC and PMA

₹57,900

SAMSUNG SHOP (ONLINE) & FLIPKART



In the race of powerful yet different from the crowd, Samsung Galaxy S series smartphones always managed to be on the top spot. Though, doubts are still there in the mind of consumers and experts, as no one has forgotten the explosion of Galaxy Note 7 and the incidents followed by it. Surely, Samsung still has a brand value and they don't want to lose it, so they started 8 levels of testing for the battery itself. Thus, the new members of the Galaxy series S8 and S8+ are safe to use. Here is our review of the Samsung Galaxy S8.

THE INFINITY DESIGN

Design wise, it is incomparable with any device till date. In fact, it makes its predecessor, and other smartphones, look rather dated. With the great infinity curved display, it also has the curved rear body. Samsung got rid of the physical home button and accompanying capacitive keys to

achieve this infinity display (bezel-less, full-frontal, edge-to-edge screen).

Now you have on-screen navigation and a pressure sensitive home button built into the display. The speaker, front camera, and Iris scanner on the front are very well incorporated into the infinity display.

The fingerprint scanner is now on the back, next to the camera lens. On the bottom, there's a single speaker, along with a USB type-C port and a standard 3.5mm headphone jack. A hybrid dual-SIM tray is placed on the top, while the power button is placed on the right edge.

Alongside the volume rocker on the left edge, S8 has a new dedicated *Bixby* button, which is Samsung's rival to Apple's Siri. But we think that it's not yet fully ready to be part of your everyday life. Hopefully, it would perform better with future updates. Having said that, Bixby has three main talents: *Bixby Vision*, which lets you use the camera to identify the object and get information about that object online; *Bixby Home*, which is a sort of customized news feed; and *Bixby Voice*, which will be your personal

smartphone assistant. Note: You can still use the Google Assistant on S8.

This incredibly thin phone feels sturdy and rated IP68 water and dust-resistant makes it strong to handle small falls and weather slaps.

THE FINEST SCREEN

The curve may attract you once, but the screen's irresistible picture quality will force you to use the device very often. The 5.8-inch screen doesn't feel so huge even when you're holding the device in one hand, all thanks to the new 18.5:9 aspect ratio. However, all apps are not optimized for its 18.5:9 aspect ratio. It has quad-HD + 2960x1440p resolution, and it is 'Mobile HDR Premium' certified, which means you can see the same vibrant colors and contrasts that filmmakers intended while watching shows/movies on Galaxy S8. It produces gloriously vivid colors with the deepest black. Additionally, S8 offers next-level gaming experiences with vivid and superior graphic technology.

SUPERB PERFORMANCE WITH AMAZING BATTERY LIFE

If the outer shell has impressed you, then its performance will stun you. Backed by Samsung's own Exynos 8895 chipset and 4 GB RAM, you can gambol with it. With built-in 64GB internal storage and support for up to 256GB microSD card, it offers you enough room for your daily selfies and other contents, such as music and videos.

Games load quite fast on S8, which was quite expected, as well as switching between them is quite snappy. You can play high graphics intensive games without any dropped frames. Moreover, the battery can easily last for more than a day on regular usage.

Running on the Android 7.0 Nougat, the phone has a Samsung software layer on the top, which looks good and

offer various useful functions. For instance, you can shrink the display panel by swiping in diagonally from the bottom left or right, so that all the controls are within reach of your thumb. Alternatively, you can go to Settings> Advanced features> One-handed mode and enable it. This allows you to activate one-handed mode (shrink down the display) by tapping the home button three times. You can also launch the camera by pressing the power button twice.

We've already talked about Bixby at the start of the review; also, there is another new feature – 'DeX'. It requires a DeX dock, sold separately (\$149.99 approx.), to connect to a monitor and turns your Galaxy S8 into a mini-PC.

CAMERA: NOTHING SPECIAL YET GOOD

The Galaxy S8 has a 12MP camera, just like the S7. But it's definitely better.

It captures almost everything quickly, with the good amount of details both in the daytime and at night. The new addition is a new multi-frame image processor that can take three shots in one single click and process them to reduce blur, increase focus and output a perfect shot. Add to that, the camera app includes Pro mode, Panorama, slow motion, hyperlapse, food mode, HDR, stickers, stamps, timer, selective focus, and much more.

The front 8MP sensor with f/1.7 aperture and autofocus takes great selfies too. Overall, both front and back cameras deliver top-notch performance.

FINAL THOUGHT

Till date, the Samsung Galaxy S8 is a superb smartphone because of its captivating infinity display, very strong performance, long battery life and great cameras.

QUICK LOOK

SAMSUNG Galaxy S8+

- Launched in India, April 2017
- 173g, 8.1mm thickness
- 6.2-inch Quad-HD Infinity Display (Super AMOLED), 2960X1440p
- Android v7.0 Nougat with Samsung Bixby Personal Assistant button
- 12MP with f/1.7 Aperture, PDAF, dual-LED flash
- 8MP with f/1.7 Aperture, autofocus
- 4GB RAM
Samsung's Exynos 8895 chipset, Octa-core, 64 bit, 10nm processor
Mali-G71 MP20 GPU
- 64 GB Internal Memory
- Midnight Black, Maple Gold, Coral Blue
- 3500mAh battery with fast charging on both wired and wireless
- ✓ IRIS Scanner ✓ Fingerprint Scanner ✓ Facial Recognition
- ✓ Google Assistant ✓ Samsung Pay Integrated
- ✓ IP68 water and dust resistance ✓ Dual SIM (Hybrid Slot)
- ✓ microSD Card (expandable up to 256GB) ✓ Corning Gorilla Glass 5
- ✓ Wireless Charging compatible with WPC and PMA

₹ 64,900

SAMSUNG SHOP (ONLINE) & FLIPKART



Note: There are two versions of both S8 and S8+. For Asia, Europe, Middle East, Africa, and India, specifications include Samsung's own Exynos 8895 Octa-core SoC, Mali-G71 MP20 GPU, and 4GB of RAM. The US version has the same amount of memory, but it gets Qualcomm's MSM8998 Snapdragon 835 processor and an Adreno 540 GPU.

QUICK LOOK | vivo V5s

-  Launched in India, April 2017
 -  154g, 7.55mm thickness
 -  5.5-inch HD display, 1280x780p
 -  Android v6.0 Marshmallow with Funtouch OS 3.0
 -  13MP with f/2.2 Aperture, PDAF, LED Flash
 -  20MP Front Camera with f/2.0 Aperture, Moonlight Flash
 -  4GB RAM
 -  1.5 GHz Octa-core Mediatek MT6750 Cortex-A53 SoC
Mali-T860MP2 GPU
 -  64 GB Internal Memory
 -  Crown Gold, Matte Black
 -  3000 mAh battery
- ✓Fingerprint Sensor ✓microSD Card (expandable up to 256GB)
✓Dual SIM (Hybrid Slot) ✓Corning Gorilla Glass 3 Protection

₹ 18,990

FLIPKART



The Selfie obsessed audience got another mid-range selfie focussed smartphone added to their list. The latest Vivo V5s is a slightly updated variant of the original V5 smartphones and its USP is 20MP selfie camera with Moonlight Flash. It is priced at Rs. 18,990/- and can be purchased both offline and online (via Flipkart).

STRONG BUILD QUALITY AND PREMIUM LOOKING DESIGN

If you're already familiar with the smartphones under the Vivo V5-series, then Vivo V5s may not act a breath of fresh air for you. However, it has a premium looking design, and it actually looks better than Gionee A1 or some of the other similarly priced smartphones. Vivo V5s gets a metal unibody with 2.5D curved glass on the front, and Vivo has, however, gone for iPhone 7 like antenna lines, which are now around the top and bottom edges rather than running across the back panel.

The volume and power buttons are placed on the right edge, while the microUSB port, headphone jack and loudspeaker are placed at the bottom. The hybrid Dual SIM tray is placed on the left edge.

The Vivo V5s features a 5.5-inch HD display with a pixel density of ~267ppi. Surely the pixel density is low, but the display is bright and easily visible under direct sunlight. Also, colors and viewing angles are quite good.

The 4G VoLTE enabled Vivo V5s incorporates a 20-megapixel selfie camera placed on top of the smartphone adjacent to earpiece, proximity sensor and light sensor. Fingerprint sensor is placed under the touch sensitive home button adjoining two dimly lit capacitive touch buttons. And, there is a usual Corning Gorilla Glass 3 protection layer on the screen.

MOONLIGHT SELFIE ON VIVO V5s

The Vivo V5s features a 20-megapixel front camera which comes with a front facing Moonlight flash designed to brighten up the selfie irrespective of the lighting conditions. The 'Face beauty' mode works great and packs features like Skin tone, Whitening and Buffing. Although, the selfie camera captures great selfies under daylight and low light conditions, a slight shake can blur the photographs and produce substandard results.

On the back, the Vivo V5s features a 13-megapixel rear camera that captures good quality photographs in daylight conditions. The camera is capable of taking wide angle shots, and it captures good quality HD videos. However, the

images get grainy and often lose quality when captured in the low light conditions.

Additional features in the camera application include Panorama, HDR, Night, Professional, PPT, Fast, Slow, Camera Filter, Touch capture, Palm Capture and Timer.

PERFORMANCE AND BATTERY LIFE

The Vivo V5s is powered by an Octa-core 1.5GHz Mediatek MT6750 64-bit Processor paired with Mali-T860MP2 GPU. There is also 4GB of RAM to handle multitasking. During the review period, the performance of V5s was quite good and didn't trouble with lags.

For storage, the Vivo V5s offers 64GB of internal storage which can be expanded up to 256GB via microSD card. The V5s runs on Android 6.0 Marshmallow wrapped under Vivo's custom Funtouch OS 3.0.

Battery life impressed us as evenly as the selfie camera. Even though the smartphone houses a 3000mAh battery, it lasts more than a day on normal usage during our testing period.

FINAL THOUGHT

Vivo V5s is yet another strong Android smartphone with premium looking unibody design, great selfie camera, and an above average battery life.



bāhubali

THE GAME

By Moonfrog Labs

Available on: Price: Free (offers in-app purchases)



Welcome to the world of *Baahubali: The Game*! Inspired by S.S. Rajamouli's superhit epic film "Baahubali", the game is developed by Moonfrog Labs in partnership with the film's Production Company Arka Media Works and Graphic India. The game is available in English, Hindi, Tamil and Telugu on the Google Play Store as a free download.



Let's have a Quick Look at the Key Features of the game:

Baahubali: The Game is a Clash of Clans style Massive Multiplayer Online game. Set in the fictional kingdom of Mahishmati, the overall objective is to fight with the forces of the evil Kalakeya, with the aid of the Baahubali heroes. The game combines city building elements with team-based play, where you have to form "Alliances" to take on other groups of players.

In this game, you as a player act as a Senapati (commander) whose role is to serve the kingdom of Mahishmati, train an army, build defenses and join forces with Baahubali, Kattappa, Bhallala Deva and the other heroes of Mahishmati to push back the ruthless Kalakeya. The end goal is to prove your skills by building the strongest army, the best defended Rajya (outpost), and a working economy with food and gold to protect the kingdom of Mahishmati from the Kalakeya.

The game can be played in two modes – Solo Player (Campaign) and Player versus Player (PvP) mode. In the

Campaign mode, you are a part of the Baahubali universe, where you are supposed to construct and defend your own Rajya. You can build farms to maximize food production, erect barracks to build troops and drill gold mines to upgrade infrastructure and build more buildings. This provides you with the resources to wage war and fight the Kalakeya in the *Campaign* mode. Attacking various Rajyas of the Kalakeyas such as the Watchtower, the Fort, Thieves' Den and the Forbidden Village, help you bring more resources into your Rajya.

In the *PvP* mode, you get to fight against other players, and you can form alliances with family and friends who are also playing the game. You can enlist Mahishmati "heroes", including Baahubali, Kattappa, and Bhallala Deva, in your army. These heroes come with their special powers which you can deploy to help them protect your base or attack with you.

- **Rule the strongest Rajya in Mahishmati** – The goal of the game is to build the most powerful army, with the aid of the Baahubali heroes, and defeat the ruthless Kalakeya. Through your strategy, cunning and smarts, you can build resources and defeat the enemy.
- **Bring the Baahubali Heroes into your fold** – Unlock powerful heroes and deploy their over-the-top abilities. Baahubali's infamous *Lion Punch* and Bhallaladeva's *Chain Mace* will strike terror in the hearts of your enemies.
- **Build your Rajya and a Robust Army** – Construct barracks, gold mines, palaces and grain storage to generate resources. Fight with 10 unique troops, raised and trained from the kingdom of Mahishmati.
- **Defend your Home** – Ambush invaders with the treacherous *Spike Traps* and lay waste to your enemies with iconic weapons like the *Arrow Machine*.
- **Destroy the Enemy** – Lay siege to enemy fortresses using powerful War Elephants and long range Catapults. Steal the enemy's resources and raze his structures to the ground.
- **Battle with Players from Around the World** – Fight live battles with friends, families, and players from all over the world while you experience the world of Baahubali.
- **Join an Alliance** – Form powerful alliances with your friends and wage war against others for the glory of Mahishmati!

After the great success of the first chapter, on the App Store comes *Monsu2*, a title that brings many innovations as you continue to search for the mysterious treasure left by the God of Monsu. In this collectible card-based action platformer, you control Monsu – a green monster who runs automatically to the right of the screen, and your job is to prevent Monsu from dying whilst collecting diamonds on the path and making it stronger by building up a card collection using the in-game currencies. This card-collecting mechanic lets you tailor your running experience, and makes the gameplay a bit different from other auto-runners out there.



MONSU 2

Available on:  | Free (offers in-app purchases)



GAMEPLAY

Monsu2 is a level-based action platformer spread across different adventurous ancient ruins in the 'World' mode, with daily quests and achievements to unlock. Each level has missions to accomplish to get a 3-star rank, for instance, defeat 10 enemies to get 2 stars, or collect 900 diamonds for 3 stars. At the end of the each level, you'll be rewarded with gold coins and a free card (at times). These gold coins can be used to buy cards to build up your character's strength.

You can also compete with other players in real-time in the 'Arena' mode and this is your chance to climb up to the top of the world tree.

Talking about the game controls, everything is controlled with taps. Tap once to jump over gaps, spikes, enemies and other obstacles, and double-tap to jump higher. Randomly-appearing powerups such as magnets help you attract all nearby diamonds, and shields, on the other hand, give you a short boost of invincibility. And if you collect enough diamonds, the 'FEVER' mode will get activated, where it's just you and a heap of diamonds to pick up and this brings you closer to that 3-star rank.

You also have to battle with boss in each ancient ruin before moving on to the next clue. In the 'boss' level, diamonds are replaced by boomerangs that you throw at a hulking creature aka boss who is hell-bent on killing you.



COLLECT AMAZING CARDS

So, is this just another auto-runner where you collect coins, boost your powers using those coins and your only aim is to run as far as you can without screwing up? The answer is NO. The twist in the *Monsu2* is that you've got three card slots. These can be equipped with a variety of different collectible monsters at the start of a level. These monsters play a role of your friends, helping you deal with various obstacles on your way.

The cards are of great help. For instance, 'Gorilla' card when equipped causes a deadly earthquake with its fists every 11 seconds, while using a 'Fairy Bow' card you can shoot a magic arrow at your enemy.

There are 40+ cards to collect, and they can be bought using the gold coins, but which card you'll get is a pure luck. You can also upgrade your cards for the ultimate advantage and evolve your own boss using the cards you've got to defeat other players in the 'Arena' mode.

FINAL THOUGHT



If you're not bored of auto-runners and looking for a new action platformer with a twist, *Monsu2* could be your pick. It is a thoroughly enjoyable game loaded with stunning graphics, collectible cards, tricky levels, and fun-looking characters.





MouseBot™

Escape from CatLab

Available on:  

Price: Free (offers in-app purchases)



MouseBot can be best described as a 'puzzle racer' game. In it, you take control of a robotic mouse on wheels named *MouseBot* which moves forward automatically at a steady pace and your job is to guide him through a series of increasingly difficult mazes filled with cheese and numerous traps created by the cat scientists of CatLab.

Things start pretty simple in *MouseBot*, with levels where a robotic mouse has to find his way through some basic traps and obstacles, but as the challenge really starts to ramp up, you start to realize just how deep this game can really be. The cats quickly up their game by introducing rotating saw blades, vertical lasers, acid pits, and even proximity mines to their anti-rodent arena. And the tricky part is that there is no way to control the speed of *MouseBot*, plus you also need to gather a certain amount of cheese before reaching the exit, otherwise the gate of the CatLab will not open and thus *MouseBot* will not be able to escape.

Of course, hitting any obstacle means that the game is over. But, thankfully, you have an option to spend a *Power Token* (in-game currency) to activate the last *Save Gate* (checkpoint) you'd passed. You can restart from that *Save Gate* instead of starting all

65+ Thrilling Levels



the way back at the beginning of the level. The suggestion is to save the *Power Tokens* for the advanced levels that are really hard to beat.

There is also a *Security Pass* that can be used to skip a level when you're really stuck. And, you can come back later and beat the skipped level to reclaim the *Security Pass*. What's more, you can trade cheese pieces collected by you to unlock gears and new skins for your robotic mouse.

The game controls are smooth and responsive, but it might take time to master them as you can't control the speed of a *MouseBot* and new obstacles are introduced with every new level. All in all, there are 65 levels to play, and you get 6 lives to start with. Note: Lives refill one per five minutes. You can also watch free ads to refill the lives.

To sum up, *MouseBot* is a zany and exciting platforming game that is well-designed to test your reflexes, skills, and timing. You'd definitely enjoy it, at least initially.



Founded in April 2014 in Silicon Valley, Droom is India's first online marketplace to buy and sell used automobiles. With its technology driven marketplace approach, Droom enables transactions between buyers and sellers by bringing transparency, building trust, and mitigating information asymmetry.

The platform has four marketplace formats, i.e. B2C, C2C, C2B and B2B, and three pricing formats, i.e. Fixed Price, Best Offer, and Auction. It has built tech and data science heavy tools to create the entire ecosystem around used automobiles, including OBV (pricing engine), Eco (121 points vehicle inspection), History (200 mil vehicle history), Discovery (dozens of pre-buying tools) and Credit (India's first and only loan marketplace for used vehicles).

Droom is currently doing \$408 million in annualized GMV growing at the rate of 350% Y/Y, 109k auto dealers (largest auto dealer platform in India), presence in 500 cities across India (largest hyper local marketplace), 14.5 million+ monthly visitors, nearly 5 million app downloads and 4.2 million users on Facebook.

The company has recently launched **Orange Book Value (OBV)** as a standalone app, which can be used by both buyers and sellers to calculate the fair market value of any used vehicle.

In an email interview with Apps Unveiled team, Sandeep Aggarwal, Founder and CEO, ShopClues, Droom and now OBV, shared his idea behind launching OBV, and said, "Right valuation of a pre-owned vehicle has always been a strenuous task for both buyers and sellers and OBV has been especially designed keeping this in mind. The long term vision of developing OBV has been to determine the valuation of every vehicle on Droom – from bicycles to planes." Edited Excerpts:

Q. After ShopClues, what inspired you to build Droom (an used automobile online marketplace), and now Orange Book Value (algorithmic pricing engine to find out fair market value of any used vehicle)?

India is the 3rd largest automobile market in the world, yet prior to Droom's launch the buying and selling used automobile experience was full of pain points, pitfalls and frustrations. One of the most initial thoughts was to bring trust and transparency for a marketplace which is a niche for automobiles. Thereafter, I came up with 52 ideas at Silicon Valley; I thought each one of them would make a billion-dollar company in India. Then I compared those ideas on around about three dozen parameters. After comparing and filtering them, I was left with just two ideas and eventually Droom made it to the final decision.

OBV is designed brining standardization in used automobile pricing as the top priority. The US patent-certified OBV pricing engine is built on Droom's proprietary computational infrastructure and real-time data science which analyses empirical evidences to give the final price value of any used vehicle. It considers various factors like purpose (buying/selling), depreciation curves, margins and spreads with intermediaries as any vehicle changes ownerships, and dozens of factors that impact the valuation of an automobile. Prior to OBV India, we didn't have any

benchmark pricing source for used automobiles and in the last two years OBV has become the de-facto industry standard for fair market value of used vehicles. This product is so successful that in the last 15 months it has delivered 110 million pricing queries, perhaps making OBV the 3rd largest search engine in India.

Q. Please tell us a bit about and Orange Book Value (OBV) mobile app and its key features.

Right valuation of a pre-owned vehicle has always been a strenuous task for both buyers and sellers and OBV has been especially designed keeping this in mind. OBV is India's first algorithmic pricing engine to calculate the fair market value of any used vehicle. The long term vision of developing OBV has been to determine the valuation of every vehicle on Droom – from bicycles to planes.

Following are the Key Features of OBV app:

- ✓ **Check Used Automobile Price:** By entering basic details like Make, Model, Year, Trim and KMs driven, find out the true market value of any used automobile within 10 seconds. Refine the price by selecting the appropriate condition of your vehicle.
- ✓ **Download/Share Pricing Report:** Download the pricing report of the vehicle you checked on your device. Also, you can share the pricing report on-the-go.

- ✓ **Recent Search:** With a single touch, access the list of vehicles for which you have checked the OBV price recently.
- ✓ **Buy/Sell on Droom:** With a single touch on the result page, you can navigate to the Droom website where you can buy/sell the product for which you'd just checked OBV.
- ✓ **Side Menu:** This includes links to all necessary information regarding OBV i.e. what is OBV, Methodology, How to determine condition and much more. Side menu also gives you the link to navigate to the Droom app.

Q. Droom is an app to buy & sell used automobiles. What leads you to develop a separate app (i.e. OBV) for finding out the fair market value of any used vehicle? Don't you already have this feature included in Droom app?

People buy or sell vehicles once in three years, but they want to constantly find out pricing for various vehicles for sale or purchase. Secondly, there are lacs of auto dealers, who want to check hundreds of pricing on a daily basis. While, OBV is available as a feature in the main Droom app, it made sense for us to have a separate OBV app, Site, Enterprise Edition and even a Print Edition to cater to core users who rely on this product on an hourly basis.

Q. How does Droom go about ensuring these three parameters of trust, transparency, and pricing?

We offer four marketplace formats, i.e. B2C, C2B, C2C and B2B, in addition to 3 pricing formats, i.e. Fixed Price, Best Offer, and Auction. And, for trust, we have US patented technology called *Full Circle Trust Score*. It is using 21st century data science techniques to build trust in a marketplace at scale. This program considers more than 5 dozen trust factors into account to give each listing a relative trust score, which is really effective for buyers.

For transparency, we not only have Droom *History* that gives you vehicle historical data, but we also have a feature called *Eco* that tells you about the exact condition of the vehicle and a detailed listing that takes into account pictures, videos, warranty, seller ratings and reviews, etc. for buyers.

Q. Please shed some light on the growth and sales numbers of Droom. And how is the response for Orange Book Value (OBV) so far?

The astounding success earned by Droom is largely thanks to the significant growth in key business metrics. Orders placed through the platform grew by 507%, from 8,232 units in 2015 to 49,974 units by the end of 2016. The transacted GMV on the platform also grew by 533%, soaring from INR 155 crore in 2015 to INR 1,000 crore in 2016. The overall traffic on Droom also grew by 307% year-on-year, increasing from 12.5 million page visits in 2015 to almost 51 million in 2016, which makes Droom the 3rd largest Facebook community in the e-commerce industry. This extensive consumer reach corresponded with a rapid increase in its active seller base, which went up from 2,038 in 2015 to 15,619 in 2016, registering a growth of 666%. Platform leads through Droom Assist also increased from 1,152 to 102,235 – a remarkable growth of almost 9000%.

We launched unique applications in 2016 such as Orange Book Value, which again has been immensely popular amongst consumers and has generated more than 100 million pricing queries and about 4 million in traffic till date.

Q. What was the most challenging part of your journey till now? How did you overcome those challenges?

The biggest technological challenge, in my opinion, was ensuring the quality of our consumer experience did not go down as we scaled up our operations. We ensured that we maintained the integrity of the end-user experience on our



MEET

Sandeep Aggarwal

Currently I'm using iPhone 7 Plus

My Favourite App picks: Facebook, WhatsApp, Zomato

I am a regular user of Facebook, Twitter, LinkedIn, Amazon, and Zomato

My message for Apps Unveiled Readers:

We are living in the renaissance of information technology and mobile revolution. In the last 20 years, we have seen more changes vs. in the last 3000 years. Follow your dreams and use technology to not only fulfil your personal and career goals, but also to make deep social transformation and first generation wealth creation opportunity and society as a better place to live in, very similar to how the industrial revolution in 1740 and thousands of innovation from bulb to phone to plane has made in last 200-300 years.

platform by adopting and implementing a regulated, scientific expansion that had been meticulously charted out well in advance.

Another major challenge is the unorganized nature of the Indian automobile industry, which is largely offline. Various estimates indicate that the online automobile industry at present is only 0.3% of the overall Indian automobile market, and is only expected to account for 8% of the total by the year 2020. This heavy reliance of traditional, fragmented market approaches brings in many inefficiencies and gaps in the overall transactional experience. This is something which we are actively trying to eliminate through our tech-based innovative automobile buying and selling solutions.

Droom has been striving hard to change the industry scenario and offer an unparalleled advantage for buyers on trust, pricing, and selection. For the sellers, we provide low transaction cost, advanced online seller tools and scalable platforms.

Q. What's your roadmap for next three years?

From a revenue of nearly INR 900 crore from 3,400 transactions in 2015-16, Droom is targeting INR 15,000 crore worth of gross revenue by the end of 2018. With a 12% annual growth, India's automobile sector is expected to expand from USD 125 billion now to USD 250 billion by 2020.

Online transaction in this sector is also expected to increase from 0.25% now to 8% by 2020. We are targeting 50-60% of this business, worth about USD 300 million.

By December 2017, we expect to achieve annualized gross sales of Rs. 4,500-5,000 crore, with a net revenue projected at about Rs. 125-150 crore. Interestingly, C2C has been a bright spot for us lately, and we see it as a significant contributor to our balance sheet.

Along with this, we are already in talks with potential investors to raise USD 50 million in the next round of funding and plan to expand our services to South Asian countries.

Google Areo is a new app for ordering food or home services in Mumbai & Bengaluru.

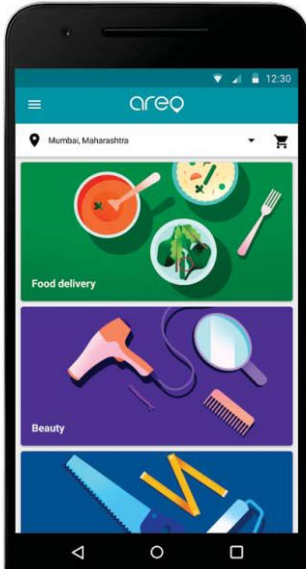


areo

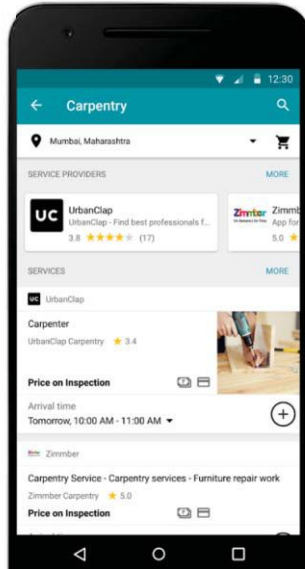
By Google Inc.

Available on: Price: Free

One app, thousands of local goods and services.



Home maintenance, beauty and more, at your door.



Internet giant Google Inc. has quietly launched an Android app named *Areo*, an aggregator which combines food delivery and hyperlocal home services (such as beauty, fitness, plumber, electrician, carpenter, and so on) in one place. Google has reportedly partnered with UrbanClap and Zimber for home and beauty services, and Freshmenu, Box8, and Faasos for food delivery, as of now.

Currently operational in Mumbai and Bengaluru, the app is available as a free download on the Google Play Store. This easy-to-use app first detects your location, and then lists the food delivery and home service options which are available in your area. Multiple payment options are available, including Cash on Delivery.

Though *Google Areo* is a good initiative, but still there is a long way to go. For someone who is already using the UrbanClap or Faasos app, there isn't enough incentive to move to *Google Areo*.

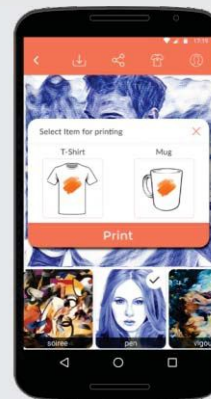
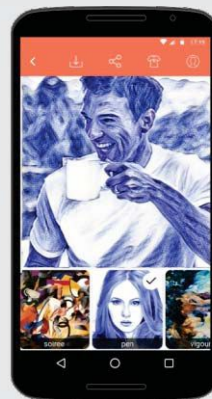
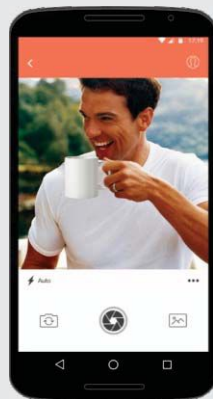


VISTOSO

By Staqu Technologies Pvt. Ltd.

Available on: Price: Free

A Gurgaon based Artificial Intelligence startup, Staqu, has launched its Neural Graphic application with the name *Vistoso* on the Google Play Store. The app not only allow users to transform their photographs into awesome artworks by choosing from 40+ artistic filters powered by Artificial Intelligence (just like once popular app – Prisma), but they can also get their artworks print on coffee mugs, t-shirts, hoodies, and tote bags at attractive prices. Staqu has partnered with VistaPrint to deliver customised goodies to their app users.



Commenting on the launch, Atul Rai, CEO and Co-Founder of Staqu said,

At Staqu, we are fascinated with Artificial Intelligence and are always discovering what more we can do with this dynamic and potent technology. With *Vistoso*, we have ventured into creative intelligence, leveraging Neural Graphic Technology for giving images and selfies an artistic touch. We have furthered collaborated with VistaPrint, in order to enable our users to have their most cherished photographs customized in a T-shirt or a mug, instead of letting the same be lost in buzzing world of social media. We are affirmative that our users will appreciate the latest offering.

The new *Vodafone-SaveLIFE Road Safe* mobile app disables calls and push notifications while driving.



RoadSafe

By SaveLIFE Foundation

Available on:  Price: Free



Telecom Operator Vodafone has launched "Road Safe" mobile app in partnership with SaveLIFE Foundation, under the 'Safety in Mobility' theme, to improve Road Safety in India.

Key Highlights

- ✓ **Distraction Free Driving:** To help a driver remain focused on driving, this feature will automatically disable Calls/SMS/Push notifications when vehicle speed is above 10 km/hour.
- ✓ **Automatic Crash Detector:** This feature uses the phone's accelerometer to detect the sudden drop in vehicle speed, and provides automatic voice enabled emergency response assistance.
- ✓ **Road Safety Tips:** The app includes useful road safety tips and information on Traffic offences and fines. There's also an option to report harassment from any officer or individual.
- ✓ **How To Help An Injured Person:** A handy guide is included that helps citizens understand how they can help road crash victims.
- ✓ **In Case of Emergency:** There's also a one-touch dial for emergency services (such as closest hospital, call police), and a feature that will call and SMS to saved emergency contact.

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GUPSHUP HAS LAUNCHED BOT-TO-BOT COMMUNICATION PLATFORM AND NAMED IT INTERBOT

Leading bot platform Gupshup has recently announced the launch of InterBot, a first of its type bot-to-bot communication platform aiming to revolutionize botkind.

InterBot is a communication channel for Bots to interact with each other. Bots can delegate tasks to different Bots, transact & negotiate with other Bots, engage in multi-player Bot games, upgrade themselves by leveraging capabilities of other Bots, thus resulting in smarter and more powerful Bots.

Currently, the service is in beta; let's go through what Beerud Sheth, Founder & CEO, Gupshup.io, has shared about InterBot in his official blog post.

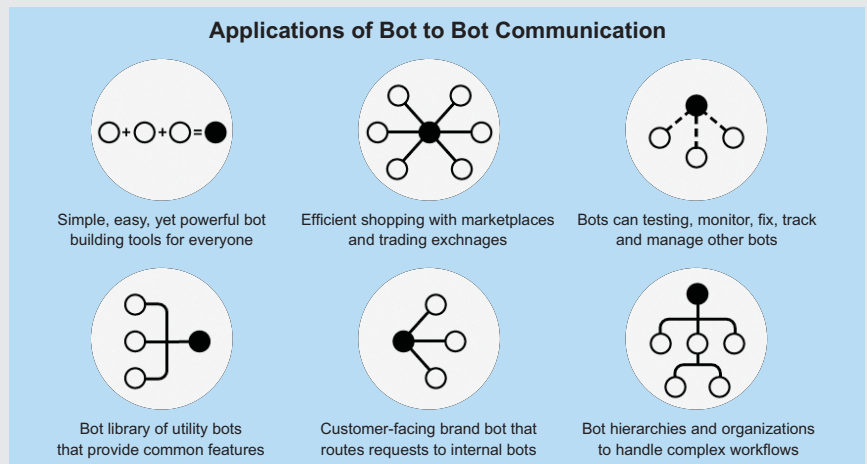
Almost all the discussion around bots to date has focused on bot-to-human interactions: how bots interact with humans; conversational interfaces; human search and discovery; engagement metrics; spam controls, etc. However, there is a potentially bigger aspect of the bot phenomenon that hasn't been much discussed or explored: bot-to-bot interactions.

Sounds like sci-fi, right? But bots communicating with each other can enable amazing possibilities. Here are a few of them:

Bots can negotiate and transact deals with one another, giving rise to bot marketplaces. Shopping bots can procure prices, deals, and discounts from merchant bots, thereby doing comparison-shopping. The shopping bot can even *negotiate* by making counter-offers to the merchant bots. Differing developers can build merchant and shopping bots without knowing about the other upfront.

Intermediary bots can enable greater privacy during e-commerce transactions. Instead of sharing credit cards with every merchant bot, you'll just ask your "preferred payment bot" to pay the new merchant without revealing your credentials. Similarly, intermediary bots may facilitate transactions while keeping the counter-parties private or even anonymous, as requested.

Bots will compete with each other as they strive to keep getting better.



Imagine a multi-player gaming scenario where a number of blackjack or poker bots play with a dealer bot. In this case, each bot may have its own strategy to compete with other bots. Bot players can play games at a much faster pace than human players, which means the learning curve will be fast too. A bot may potentially win and lose money, depending on how good its strategy is.

Bots can collaborate with one another to form groups, hierarchies and other organizations in order to achieve tasks that are more complex than any one bot can. Isn't that what humans do too? Imagine your "smart home bot", communicating with the "neighbourhood bot", which communicates with the "city bot", thus enabling hierarchical coordination with each other.

It also makes bot building easier. A developer can string multiple bots together to create a new bot. Placing a "pizza bot" together with a translate bot gives you a multilingual pizza bot. Placing a keyword-based travel bot



Why InterBot Communication

- Developers can easily compose new bots by simply connecting them
- Bots can collaborate with each other to enable new services
- Bots can delegate or outsource tasks to different bots
- Bots can transact and negotiate with other bots at bot-speed
- Bots upgrade themselves by leveraging capabilities of other bots
- Because it's powerful and enables new ideas we haven't thought of

together with an NLP bot can give an NLP-enabled "travel bot". In such cases, bot composition substitutes bot development. Developers can, in fact, start building utility bots that provide component capabilities to other bots. Developers of the individual bots (the bot composer, the pizza bot developer or

the translate bot developer) really don't need to coordinate development, which makes composition easier.

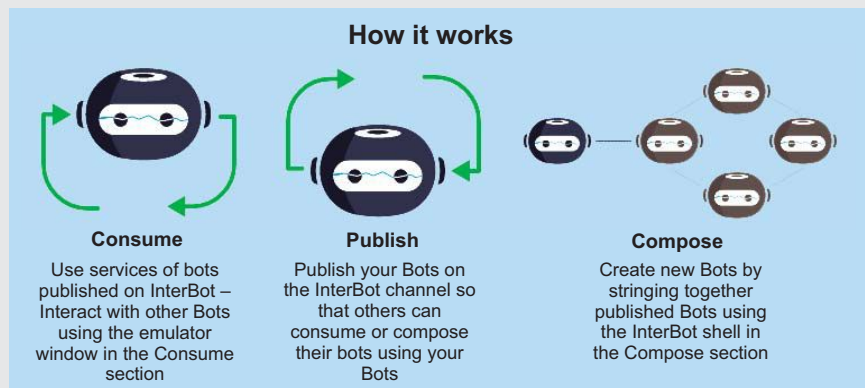
In business, inter-bot communication will enable distributed development of enterprise bots. While each division in an enterprise can build a bot focused on its specific aspect of the business, the enterprise can add a single customer-facing bot that intelligently routes messages to the underlying...botlets. And different teams can build bots independently while simultaneously offering a unified interface to the customer.

If bots can communicate with other bots, then humans can delegate these interactions to their personal assistant bot. As bots proliferate, the sheer number of messages may overwhelm we humans' ability to deal with them. At that point, we just may want to delegate the interaction with other bots to a personal assistant — also, you guessed it, a bot! Now the assistant bot can deal with all the other bots. The assistant susses out individual preferences and can either filter or autonomously take care of most messages.

Soon, bots will emerge as full-fledged financial entities. We may give our bots autonomy to earn and spend money. Our bots will make money for us. It's a whole new economy!

Bots will also become smarter, self-healing and reproductive. Bots will become smarter by asking other bots for help when they need it. They can easily be self-improving or self-healing by replacing the bot's component with a newer and better component when it emerges. Bots will be able to produce or reproduce other bots through bot composition. It's a whole new civilization!

These are just some of the possibilities we can imagine today. And, there are a lot more beyond the horizon. **Still, one of the key questions that many developers will ask before pursuing them is why bother with bot-to-bot interactions when we have APIs?**



InterBot communication offers new capabilities that are difficult (or in some cases impossible) to create with APIs. Bots can enable distributed computing in ways that APIs cannot. Here are some of the key differences between the bots and APIs:

1. Synchronous vs. Asynchronous:

Bots are inherently designed for asynchronous messaging and can better handle long response delays. APIs are built for synchronous interactions and timeout with long delays. Asynchronous systems tend to be more scalable, reliable and robust.

2. Directionality: Bots are bidirectional, while APIs are unidirectional. Bots can both push and pull data, while APIs can only respond. Once communication is established between two bots, either can initiate a conversation or respond to it. APIs, on the other hand, generally only respond to calls.

3. Flexibility: Bots are robust with handling inputs, and are designed to flexibly handle a wide variety of input queries. APIs are very fragile by comparison. If the API call parameters are not submitted in precisely the right format, it breaks down. When provided incomplete information, bots can ask for more information. APIs simply do not do that.

4. Awareness: Bots can interact without mutual awareness, while APIs need to be mutually aware. Bots can interact with each other without any pre-defined

agreement, thus freeing developers to build bots without worrying about what or who they might interact with. With API integrations, one side needs to be aware of the other for it to work.

5. Interoperability: Even independent third parties can get two bots to communicate with each other; not so with APIs. A consumer can compose new services — plug-and-play style — by chaining multiple bots, each of which may be independently built by other developers. That's not possible with APIs.

Bots will inevitable become the new APIs, making integrations and mashups a lot easier.

Sheth added “Our team has been working on an InterBot Communication Channel (<http://interbot.cc>) to enable bot to bot communication — a messaging channel that allows bots to freely communicate with one another. To use InterBot, bots first have to publish themselves on this new channel. Then bots can consume the services of other bots or offer its services to others. Humans, and bots too, can compose other bots endlessly in plug-and-play style by simply connecting them like Lego blocks. Plus, there are APIs to enable more advanced combinations of bots, as described above.”

It's not the future; it is possible now. You can use the functionality or see brief demo videos of Brand Bot, NLP Bot, Game Bot and Bot Composition. (Please visit <http://blog.gupshup.io> to watch these videos)

After seeing early examples of bots communicating with each other, it feels as if InterBot communication is one small step for a bot, one giant step for botkind!

About GupShup: Headquartered in Silicon Valley, Gupshup enables developers to quickly and easily build, test, deploy and manage chat bots across all messaging channels.

Bot to Bot	VS	APIs
Connect bots without coding skills	•	Integrating APIs required coding skills
Bots are generally flexible and fault tolerant	•	APIs are fragile; they break with input errors
Bots are asynchronous, enable more possibilities	•	APIs synchronous; they don't like delays
Bots can do bi-directional messaging	•	APIs are uni-directional
Bots can talk to bots and humans alike	•	APIs are meant for computers alone

all-time FAVOURITE APPS



ShareTheMeal

This app is an initiative of the United Nations World Food Programme (WFP) to fight global hunger. All you have to donate just ₹30 to feed a child for one day.

- iPhone | iOS 9.0 | Free
- Android | OS 4.1 | Free



Wysa

Wysa is the 'emotionally intelligent' chatbot, which reacts to the emotions you express, and uses evidence-based cognitive-behavioral techniques (CBT) and micro-actions (like suggesting you to reframe your thoughts or hug a loved one) to help you feel better instantly.

- iPhone | iOS 8.0 | Free
- Android | OS 4.0.3 | Free



Photomyne

This app lets you scan entire photo album in minutes, manage and share them with people you care about, and back them up forever.

- iPhone/iPad | iOS 9.0 | Freemium
- Android | OS Varies | Freemium



Giphy Says

Giphy Says is the camera you talk to. It turns "your words into GIFs" as you record a 5-seconds long video clip.

- iPhone | iOS 10.0 | Free



Hear and Now

This Deep Breathing app reminds you to stop and de-stress, and tells you how well you're doing it.

- iPhone | iOS 8.0 | Freemium



Lumosity

Think of Lumosity as a gym for your brain. It offers a daily brain-training session to help you exercise core cognitive abilities – speed, memory, attention, flexibility, and problem solving.

- iPhone | iOS 9.0 | Freemium
- Android | OS Varies | Freemium



IPL 2017

This is the official IPL app, which brings you live ball-by-ball scores, video highlights, breaking news, exclusive interviews, match reports and more.

- iPhone | iOS 9.0 | Free
- Android | OS 4.1 | Free



Hotstar

Get this app if you want to enjoy LIVE streaming of IPL 2017 matches on your smartphone. Plus, it has a good collection of blockbuster movies and popular TV Shows.

- iPhone/iPad | iOS 9.0 | Freemium
- Android | OS 4.0.3 | Freemium



Cricbuzz

Follow live cricket scores and everything else related to Cricket.

- iPhone/iPad | iOS 8.0 | Freemium
- Android | OS Varies | Freemium
- Windows PC/Phone | Free



PriceMap Buyer

This app helps you find you shops in local markets offering better than the online price/deal.

- iPhone/iPad | iOS 8.0 | Free
- Android | OS 4.0.3 | Free



Simplilearn

It offers short-term certification online courses in domains like Digital marketing, Big Data, Mobile App Development, for example. The courses are aimed at the upskilling and reskilling of working professionals across the world.

- iPhone/iPad | iOS 8.0 | Freemium
- Android | OS 4.0 | Freemium



CamCard

This app is all you need to scan, manage, sync and exchange business cards.

- iPhone/iPad | iOS 8.0 | Freemium
- Android | OS Varies | Freemium



MySmartPrice

This is an online price comparison and deals discovery platform, which helps online shoppers in making intelligent buying decisions.

- iPhone/iPad | iOS 8.0 | Free
- Android | OS Varies | Free



Friends2Support

Helps you find voluntary blood donors in your vicinity.

- iPhone | iOS 7.0 | Free
- Android | OS 2.2 | Free
- Windows | Free



HelloSign

This app lets you sign 3 documents electronically every month, at no cost.

- iPhone/iPad | iOS 6.0 | Free
- Android | OS 2.3 | Free



BHIM

Launched by NPCI, the app enables you to transfer money from your bank account to another's bank account with just a few taps on your smartphone. It supports all Indian banks that are on the Unified Payments Interface (UPI) platform.

- iPhone | iOS 8.0 | Free
- Android | OS 4.2 | Free



Sworkit

Sworkit offers personalized video workouts – yoga, stretching, strengthening, or cardio – it covers all.

- iPhone/iPad | iOS 8.0 | Freemium
- Android | OS 4.0.3 | Freemium



1mg

This app tells you about your medicines, their substitutes and side effects. Also, you can book lab tests and order prescription medicines using this app.*Available in select cities.

- iPhone | iOS 8.0 | Free
- Android | OS 4.1 | Free



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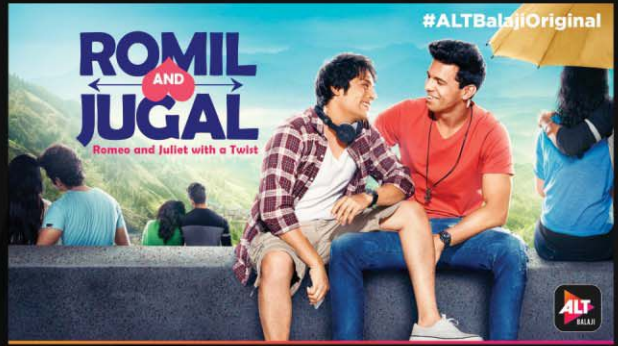
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