ANDROID
APPLICATION
DEVELOPMENT
PROJECT REPORT

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I would also like to thank all the teaching and non-teaching staff of Tata CMC, New Delhi who helped me directly or indirectly in completion of this project.

Finally, yet importantly, I would like to express my heartfelt thanks to my beloved parents for their blessings, my friends and batch mates for their help and wishes for successful completion of this project.

Kshitij Gautam

CERTIFICATE

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ABOUT THE INSTITUTION

CMC Limited is an information technology services, consulting and software company. It was incorporated on 26 December 1975, as the 'Computer Management Corporation Private Limited'.

'Project Interact' (International Education and Research for Applications of Computer Technology), a United Nations project involving design, development and systems engineering, computer-based systems applications in the areas of power distribution, railway freight operations management and meteorology transitioned the company to a broad IT solutions provider.

CMC Limited designed and deployed the Indian Railways Reservation System IMPRESS (Integrated Multi-train Passenger Reservation System) in New Delhi on 15 October 1985. It was eventually deployed all over India serving over half a million transactions every single day and cutting wait times for passengers drastically. CMC also followed it up with the design of ARTS (Advanced Railway Ticketing System) for unreserved ticketing.

INTRODUCTION

Android is a mobile operating system developed by Google, based on the Linux kernel and designed primarily for touchscreen mobile devices such as smartphones and tablets.

Android's user interface is mainly based on direct manipulation, using touch gestures that loosely correspond to real-world actions, such as swiping, tapping and pinching, to manipulate on-screen objects, along with a virtual keyboard for text input. In addition to touchscreen devices, Google has further developed Android TV for televisions, Android Auto for cars, and Android Wear for wrist watches, each with a specialized user interface. Variants of Android are also used on game consoles, digital cameras, PCs and other electronics.

Initially developed by Android Inc., which Google bought in 2005, Android was unveiled in 2007, along with the founding of the Open Handset Alliance – a consortium of hardware, software, and telecommunication companies devoted to advancing open standards for mobile devices. Beginning with the first commercial Android device in September 2008, the operating system has gone through multiple major releases, with the current version being 8.0 "Oreo", released in August 2017. Android applications

("apps") can be downloaded from the Google Play store, which features over 2.7 million apps as of February 2017. Android has been the best-selling OS on tablets since 2013, and runs on the vast majority of smartphones. As of May 2017, Android has two billion monthly active users, and it has the largest installed base of any operating system.

Android's source code is released by Google under an open source license, although most Android devices ultimately ship with a combination of free and open source and proprietary software, including proprietary software required for accessing Google services. Android is popular with technology companies that require a ready-made, low-cost and customizable operating system for high-tech devices. Its open nature has encouraged a large community of developers and enthusiasts to use the open-source code as a foundation for community-driven projects, which deliver updates to older devices, add new features for advanced users or bring Android to devices originally shipped with other operating systems. The extensive variation of hardware in Android devices causes significant delays for software upgrades, with new
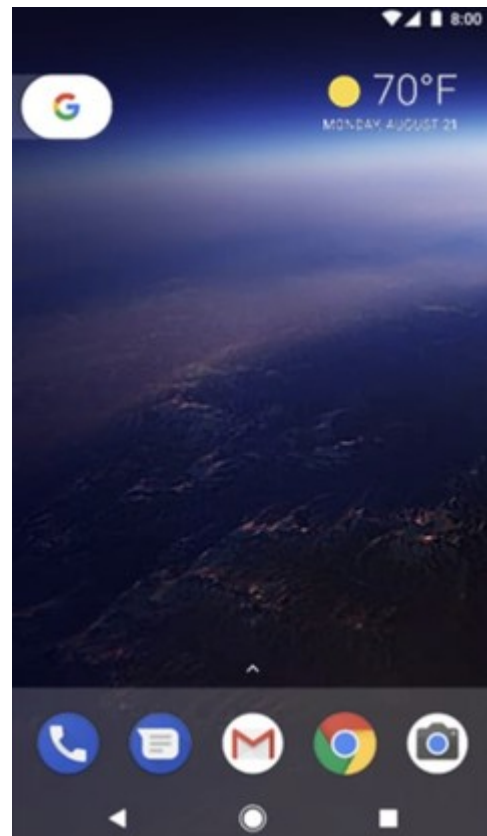
versions of the operating system and security patches typically taking months before reaching consumers, or sometimes not at all. The success of Android has made it a target for patent and copyright litigation between technology companies.

ANDROID VERSIONS

Cupcake 1.5

Froyo 2.2

Donut 1.6

Gingerbread 2.3

Eclair 2.0
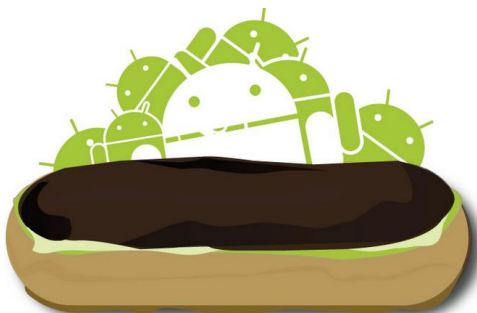
Honeycomb 3.0

Ice Cream Sandwich 4.0

Marshmallow 6.0

Jelly Bean 4.1

Nougat 7.0

KitKat 4.4

Oreo 8.0

Lollipop 5.0
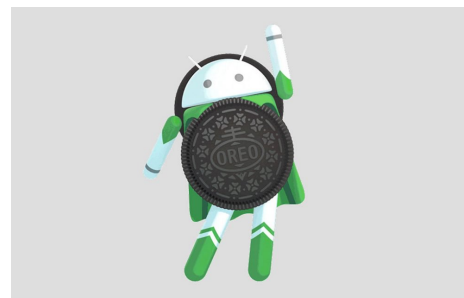
Android 5.0, Lollipop

PROJECT - WALLET APP

OVERVIEW

This Android project is an android application which implements a Wallet App. Android framework and SQLite are used to develop an app which provides an in-app cash wallet which can be use to pay other people, pay for services or book services. An Administration section has been provided to add new users and services. A Sign-up page for existing users and a page for existing users to change password is also provided.

TECHNOLOGIES USED

- **ANDROID**
- **SQLite**

SOFTWARE USED

- **• ANDROID STUDIO**

FEATURES

- **Simple and Efficient Functioning.**
- **Ease of Accessibility.**
- **Data Security and User Sessions.**
- **Efficient and Fast Data Management.**
- **Design Simplicity.**

SCREENSHOTS

App Home providing various options and services.
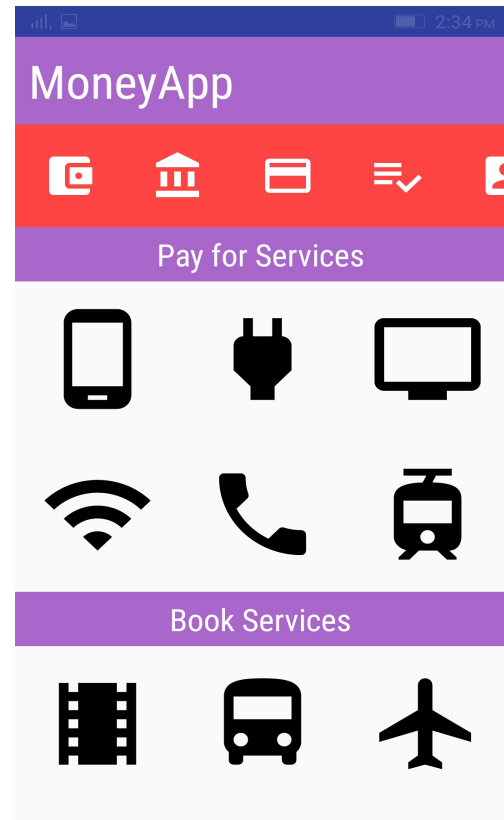
Login Activity to log into the app.

MoneyApp

ADD BALANCE

Amount   Name

ADD
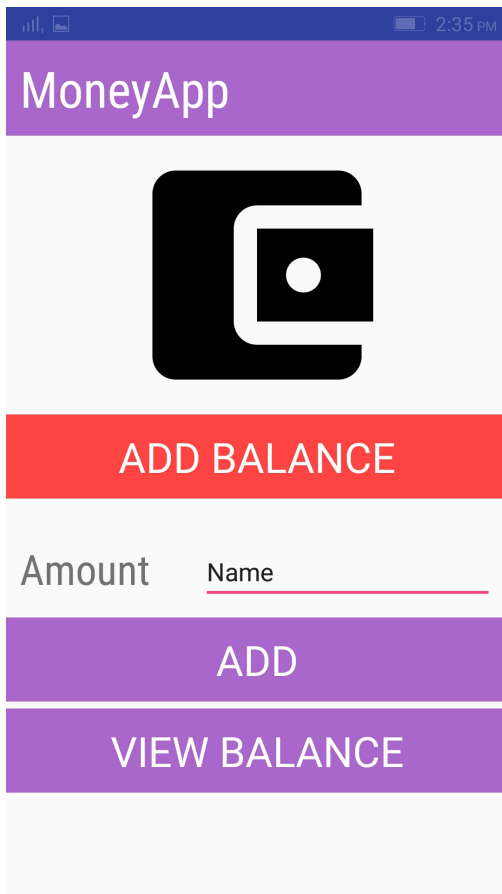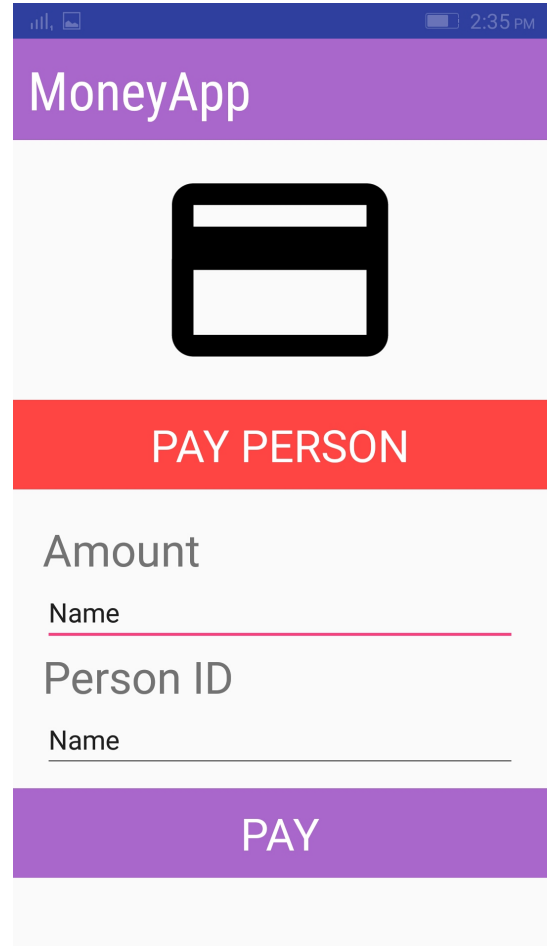
VIEW BALANCE

Add Balance Activity to add balance to the account.

View Balance Activity to view account balance.

MoneyApp

VIEW BALANCE

Current Balance

89557

Add Balance
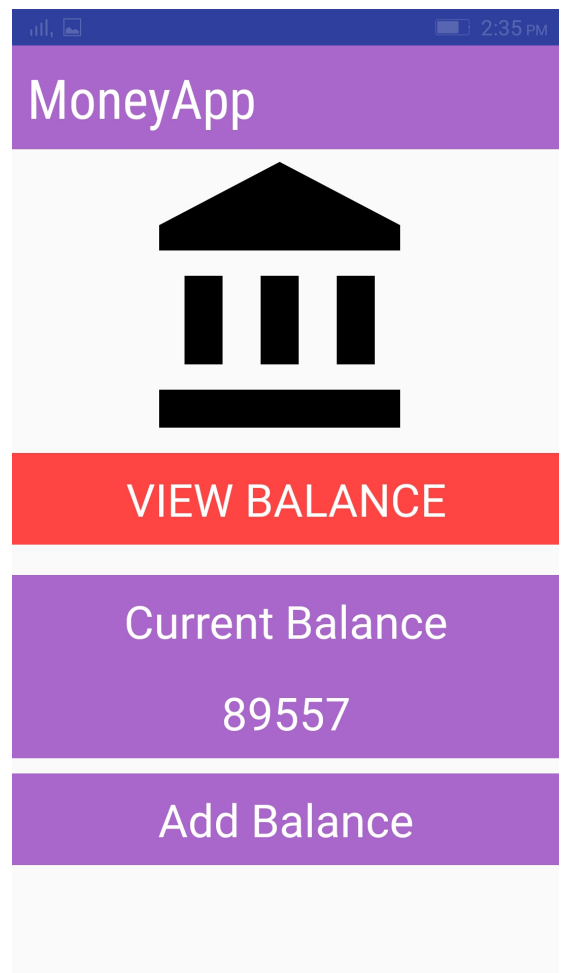
Pay Person Activity to pay other users.

MoneyApp

PAY PERSON
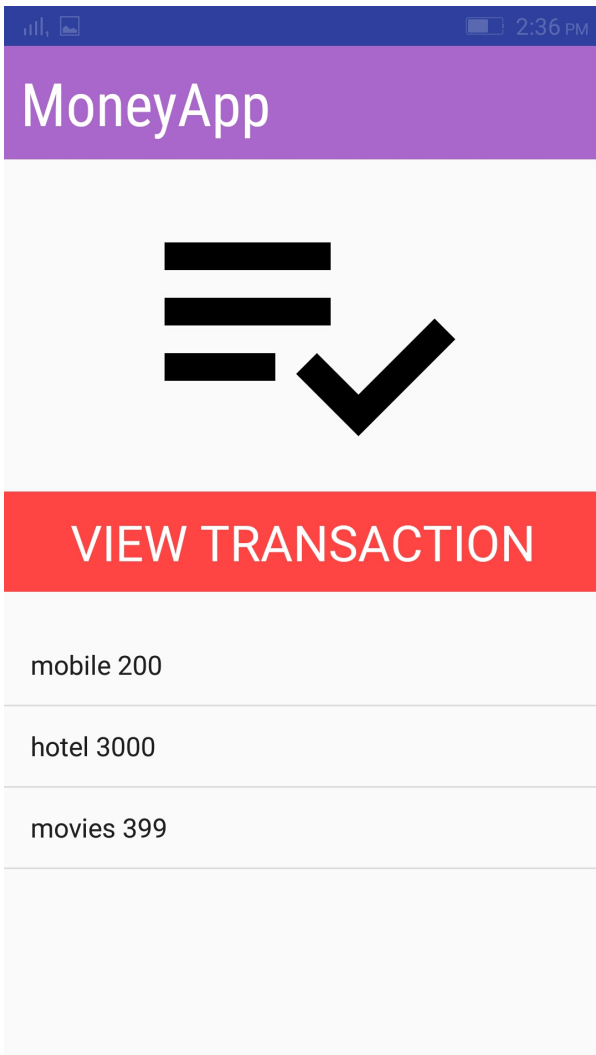
Amount

Name
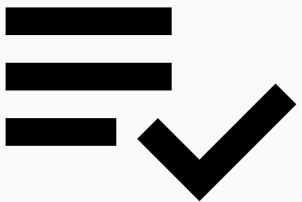
Person ID

Name

PAY

MoneyApp

VIEW TRANSACTION

mobile 200

hotel 3000

movies 399

View Transaction Activity to view transactions.

MoneyApp

ACCOUNT

CHANGE PASSWORD

LOGOUT
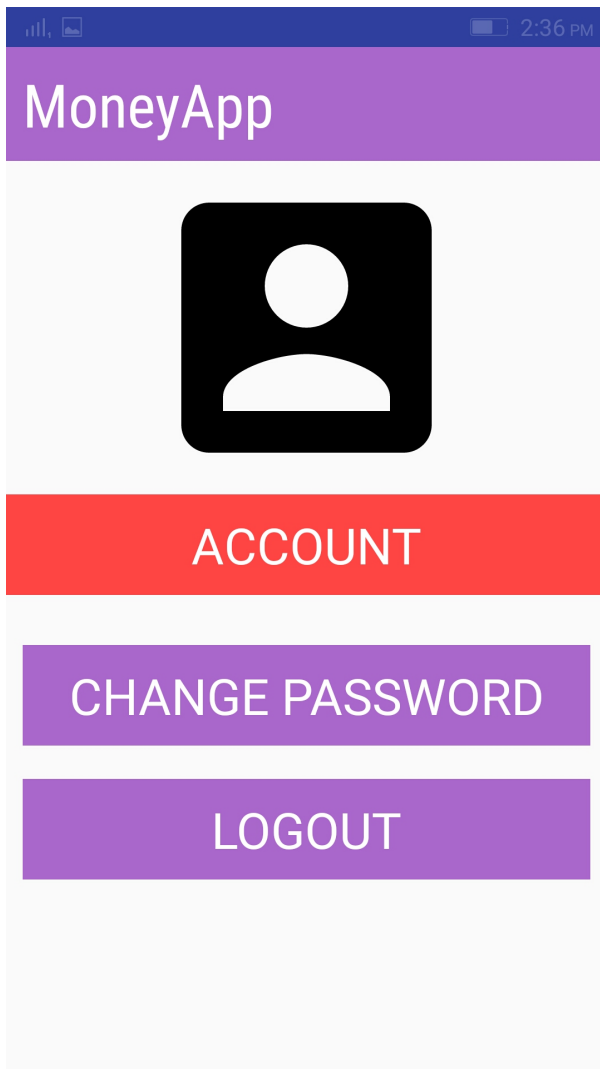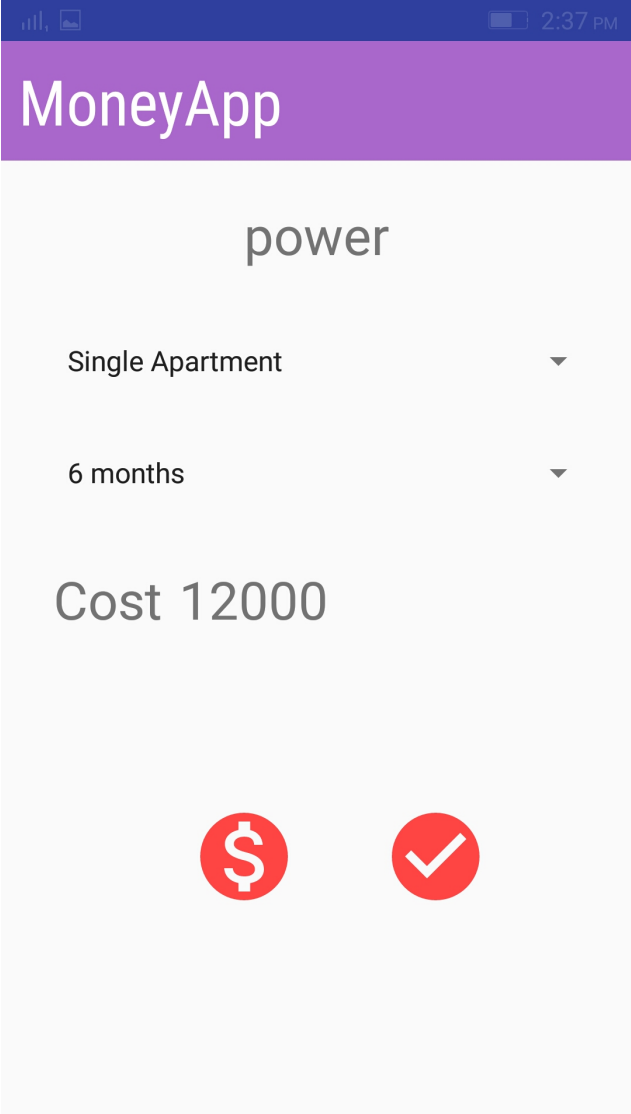
Account Activity to view account information.
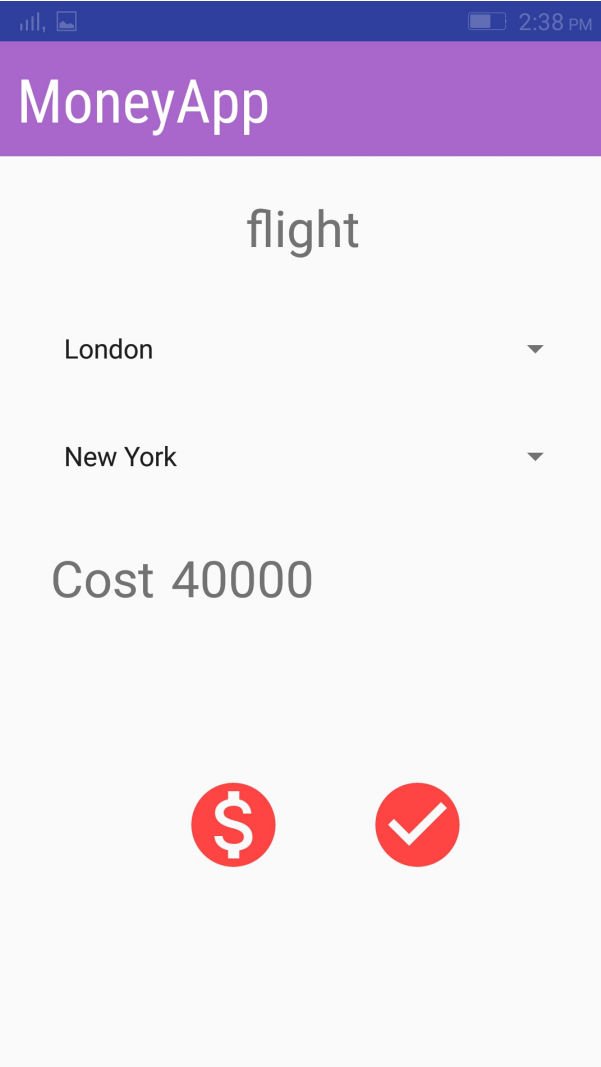
Change password activity to change password

MoneyApp

New Password

Name

CHANGE PASSWORD
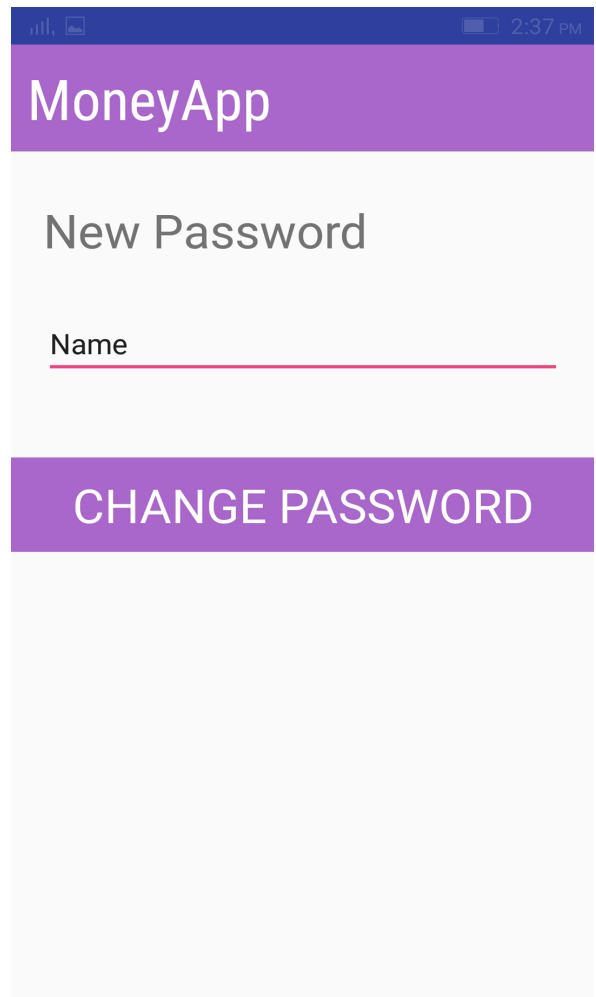
Activity to pay for power services.

MoneyApp	2:37 PM

power

Single Apartment ▾

6 months ▾

Cost 12000

Activity to pay for flight services.

MoneyApp	2:38 PM

flight

London ▾

New York ▾

Cost 40000

MoneyApp

musicevent

AC-DC

New York

Cost 7800

$ ✓

AC-DCNew York
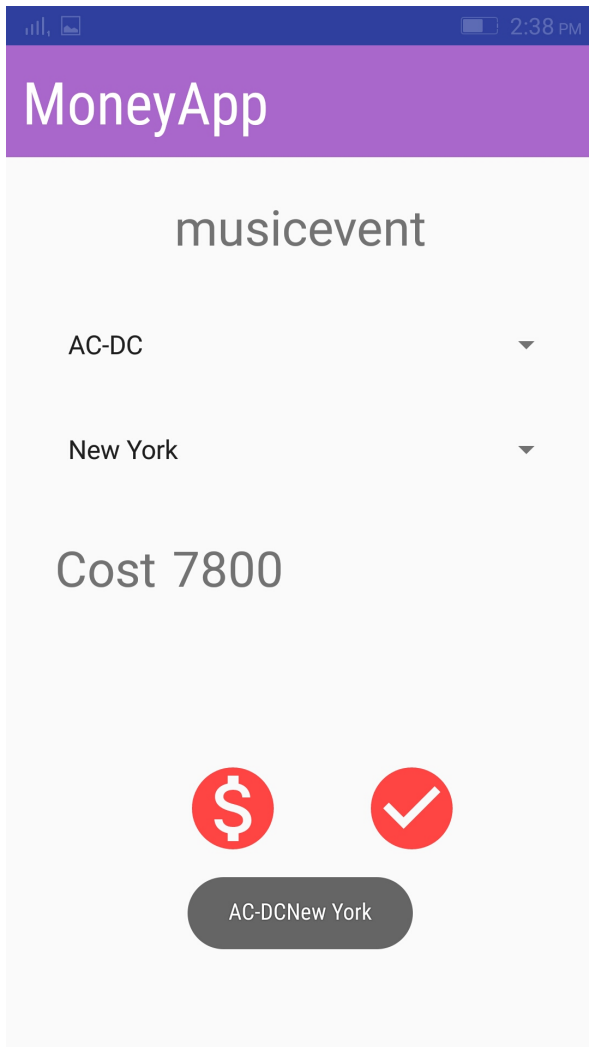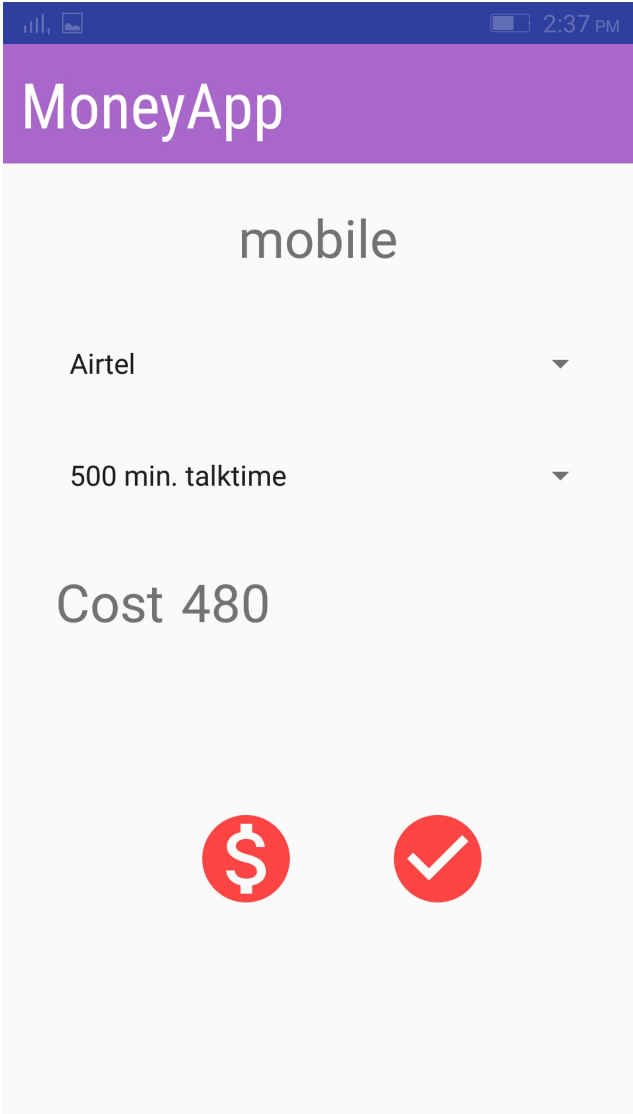
Activity to pay for music services.

Activity to pay for metro services.

MoneyApp

metro

Dilshad Garden - Rithala

200

Cost 200

$ ✓
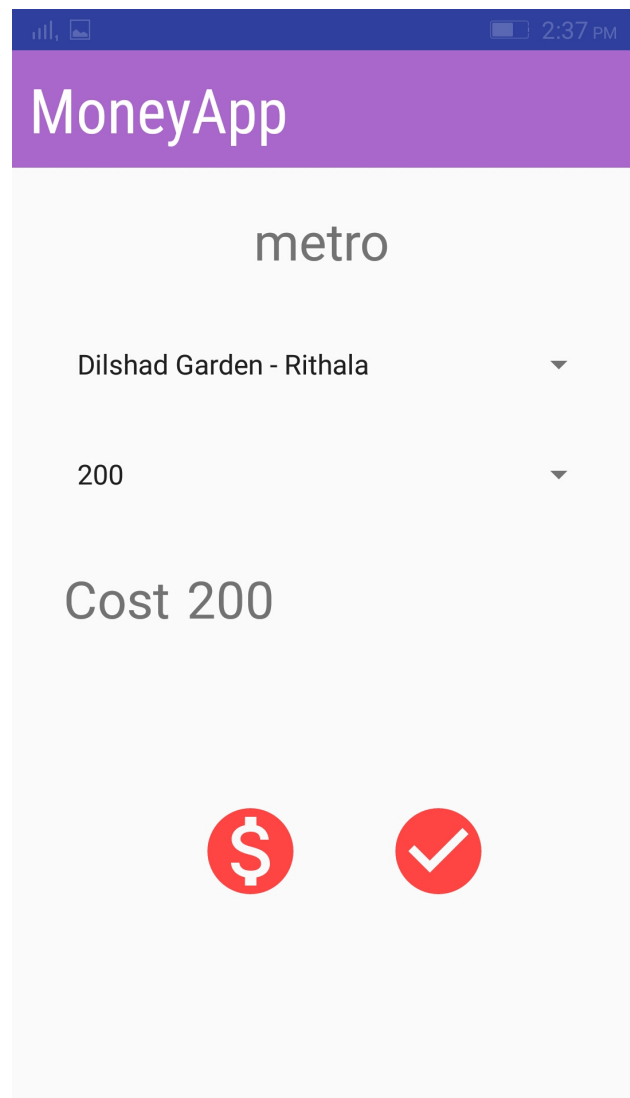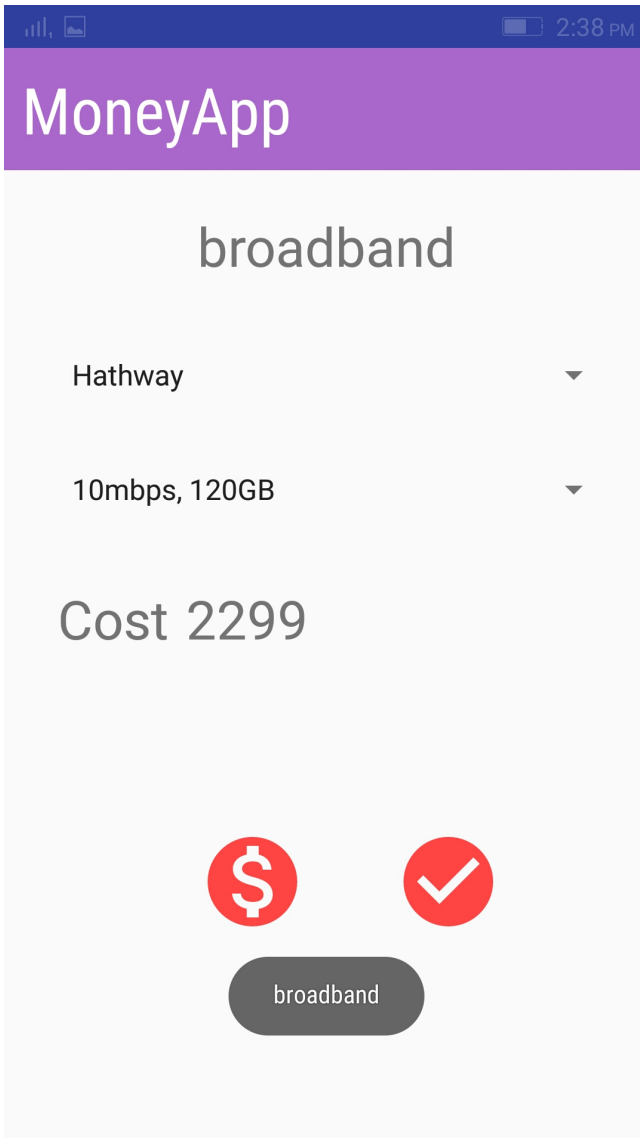
Activity to pay for mobile services.

MoneyApp

mobile

Airtel ▼

500 min. talktime ▼

Cost 480

$ ✓

2:38 PM

MoneyApp

broadband

Hathway ▼

10mbps, 120GB ▼

Cost 2299

$ ✓

broadband

Activity to pay for broadband services.

16

Admin Activity to add users and services.

FURTHER IMPROVEMENTS

- **Inclusion of more services.**

- **Inclusion of NFC payment procedures.**

REFERENCES

- *http://en.wikipedia.org/*

- *http://developer.android.com*

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