

# CINEMETRICS

## FINAL INCREMENT REPORT

### 1. INTRODUCTION:

CINEMETRICS is an android application, to manage and keep track of all movies at one place. With the use of TMDB API, all the movies and series are controlled. This app can be used to check all the movies, collect different movies, add movies to watched list or to be watched. It also shows the count of movies the user watched along with the statistic diagrams, these stats can be shared across social media.

### 2. PROJECT GOAL AND OBJECTIVES:

#### 2.1. OVERALL GOAL:

Overall goal is to create and deploy Cinemetrics app where the user finds it easy to track down the number of movies he has watched and share to the social media. To create interactive and user-friendly app where the movies can be searched and create lists for favourite, watched and to watch.

#### 2.2. SPECIFIC OBJECTIVE:

- The user can view movie posters with the help of search criteria like title, rating, year, star cast, Oscar-nominated, genre etc.
- On selection of a movie poster, the user can view the movie description, ratings. The user also has an option to mark if the movie is already watched or to be watched or favourite. These will be added to the user's library. YouTube trailer will also be present and there will be an option to rate the movie or a series.
- The user will be having different screens where he can check the list of watched movies, list of to be watched movies and favourite movies. If the user changes the status of to be watched a movie to watched then this movie will be cleared from the list.
- On the home screen, the user will be having a count of all movies he watched. On click of the count, he can view a statistical history of the movies watched based on year, genre, star cast etc. These stats can be shared across different applications like Facebook, Twitter, WhatsApp etc.
- The user can also share the watched movie across different applications.
- Additionally, a normal user can search for the movies and description of the movie. If he would like to get the movie count and add movies to the above-mentioned list, he registers his account. He can either create account or signup using Google or Facebook.
- Remainder option is available if user wants to remind about a movie.

### 2.3. SPECIFIC FEATURES:

- User-friendly search screen for search of different key words.
- Description of movies.
- Count of movies the user watched where he can share to social media.
- Statistics of the movies the user watched.
- Remainder to watch a movie.

### 2.4. SIGNIFICANCE:

Cinemetrics will be one stop movie library for the users who wants to maintain the movie database with them and share to the social media.

### 2.5. EXISTING SERVICES / REST API:

We have used TMDBI API, which is the rest implemented API which gives the results of the movies. Please find the below link for reference.

<https://www.themoviedb.org/documentation/api>

We have used Firebase for the OAuth for Facebook, Google and Twitter login

<https://console.firebase.google.com/>

We have used MPAndroidChart for pie chart representation

<https://github.com/PhilJay/MPAndroidChart>

We have used youtube api for rendering youtube trailers for the movies

<https://developers.google.com/youtube/>

We have used Mongo db for storing and retrieving the data

<https://mlab.com/>

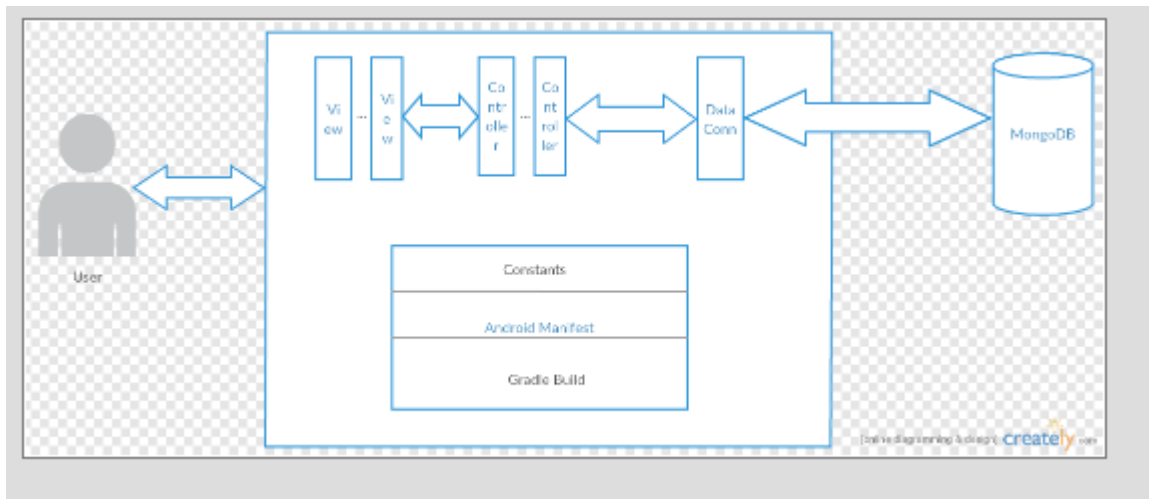
## 2.6. User Manual:

- Install apk present in below url:

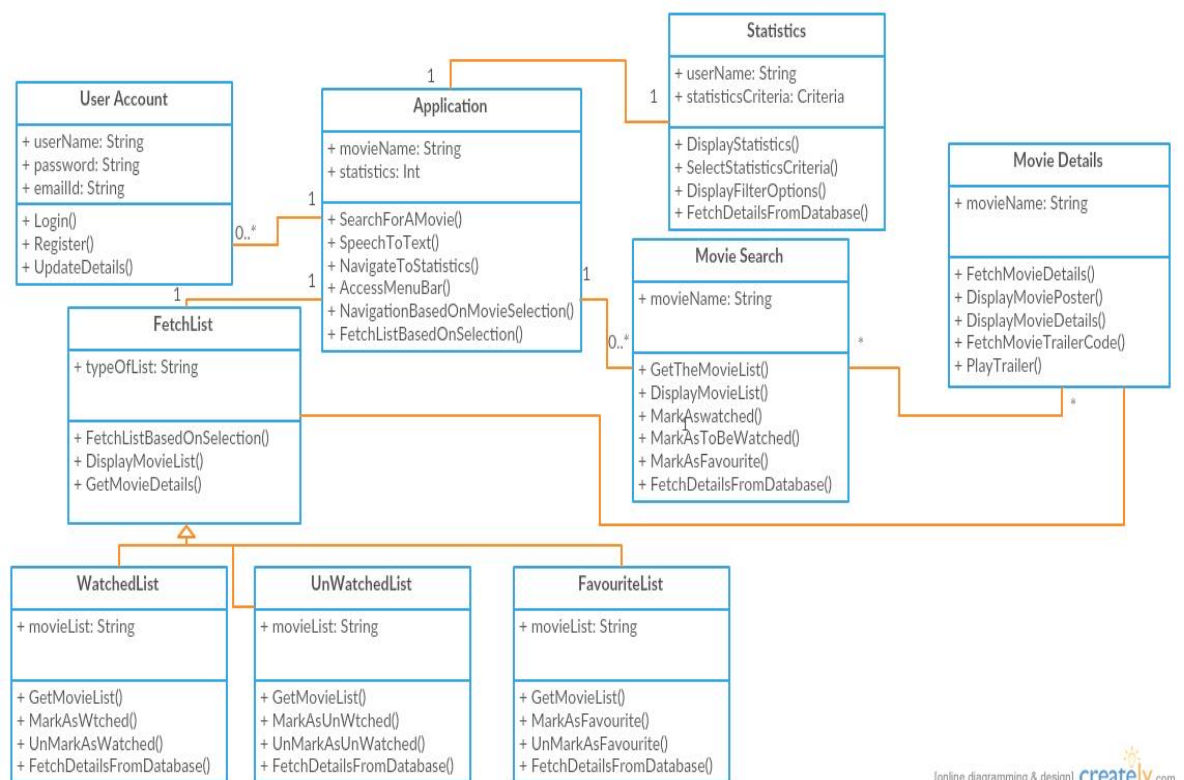
<https://github.com/VinuthnaGummadi/Cinemetrics-Project/tree/master/apk>

## 2.7. Detail Design of Features:

### 2.7.1. ARCHITECTURE DIAGRAM:



## 2.7.2. CLASS DIAGRAM:



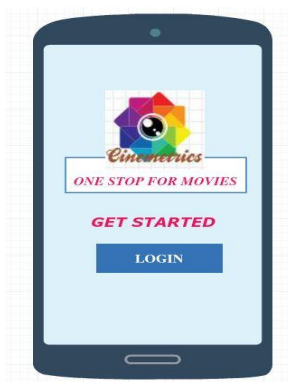
## 2.7.3. LOGO:



## 2.7.4. Wire Frames:

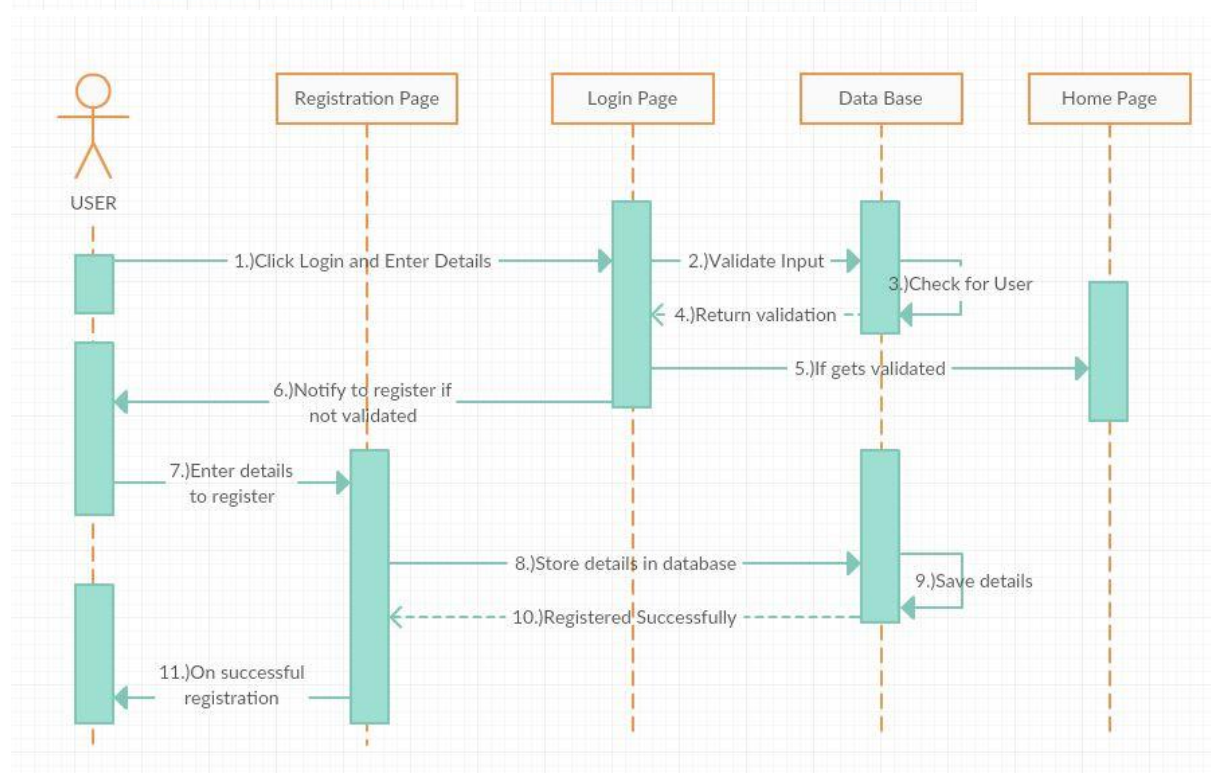
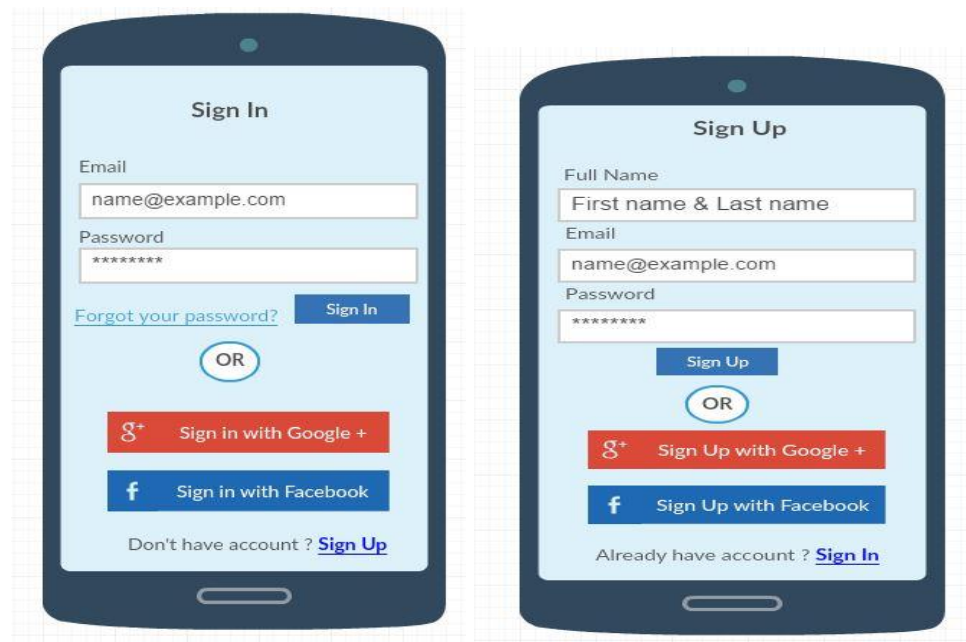
### LANDING PAGE:

On click of logo in android application, landing page will be loaded. UI wireframe is as below



### 2.7.5. LOGIN AND REGISTRATION:

On click of Login in landing page user is redirected to Login screen. Below are the UI wireframe and sequence diagram of login and registration.



### 2.7.6. GET STARTED:

There are two types of users, Normal user and Registered user.

**Normal user** can click of GET STARTED and view the movie search screen and movie description.

**Registered user** has access to check the movie count and have chance to add the movies to favourite list or watched list or to be watched list.

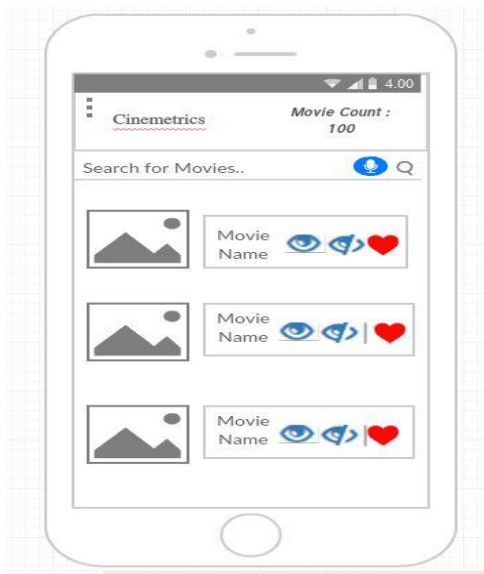
### 2.7.7. SEARCH SCREEN:

Search screen contains a search bar with mike option along with best movies in the current year. Voice to Text functionality is available. If the user swipes left or right on the movie list then that movie row will be cleared from the list.

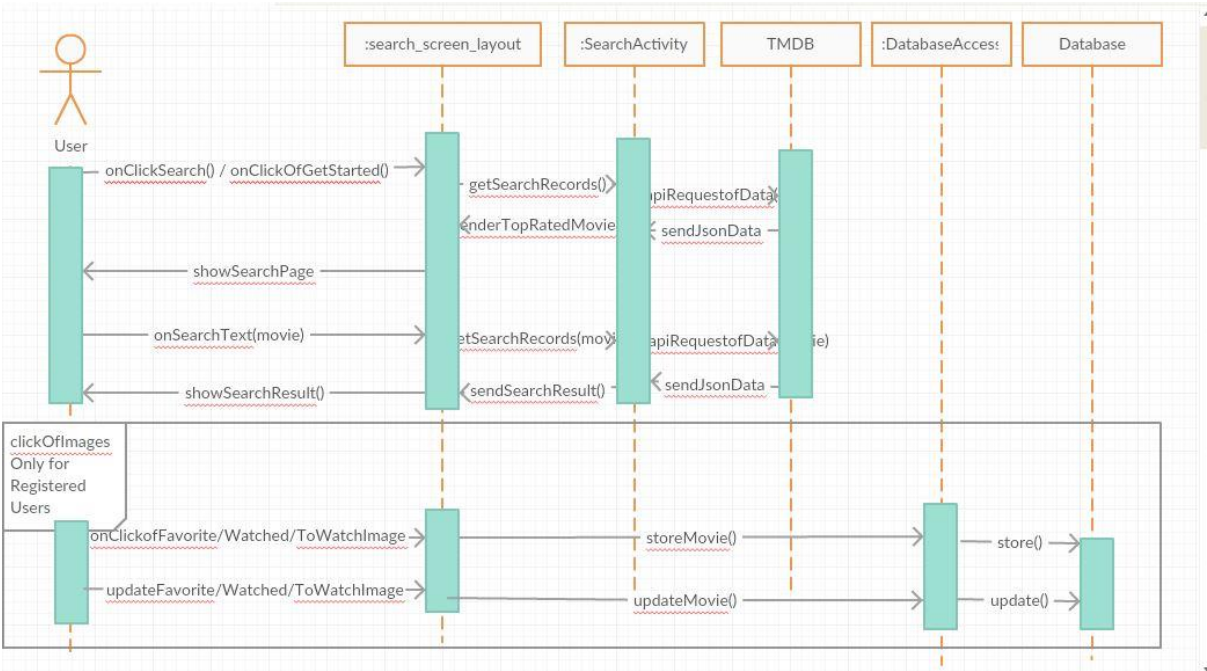
Normal User Search Screen:



Registered User Search Screen:



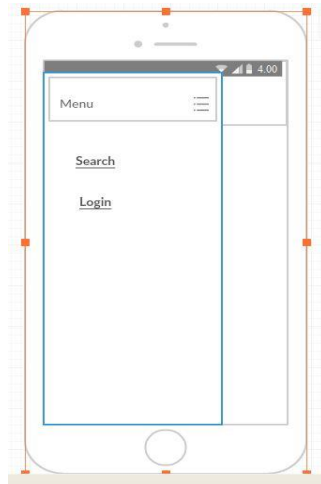
Sequence Diagram:



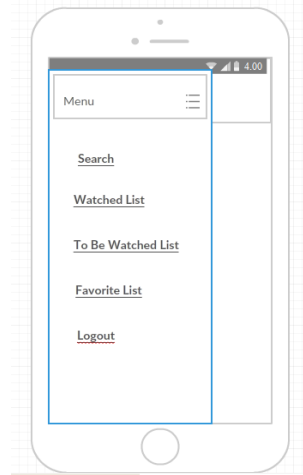
### 2.7.8. SIDE MENU

Side menu for normal user and registered user are as below

Normal User:

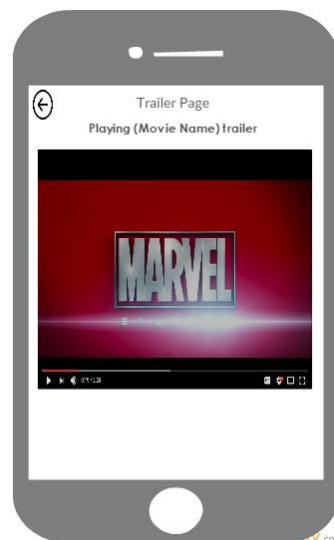
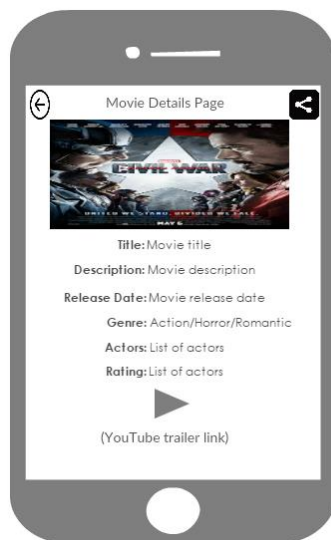


Registered User:

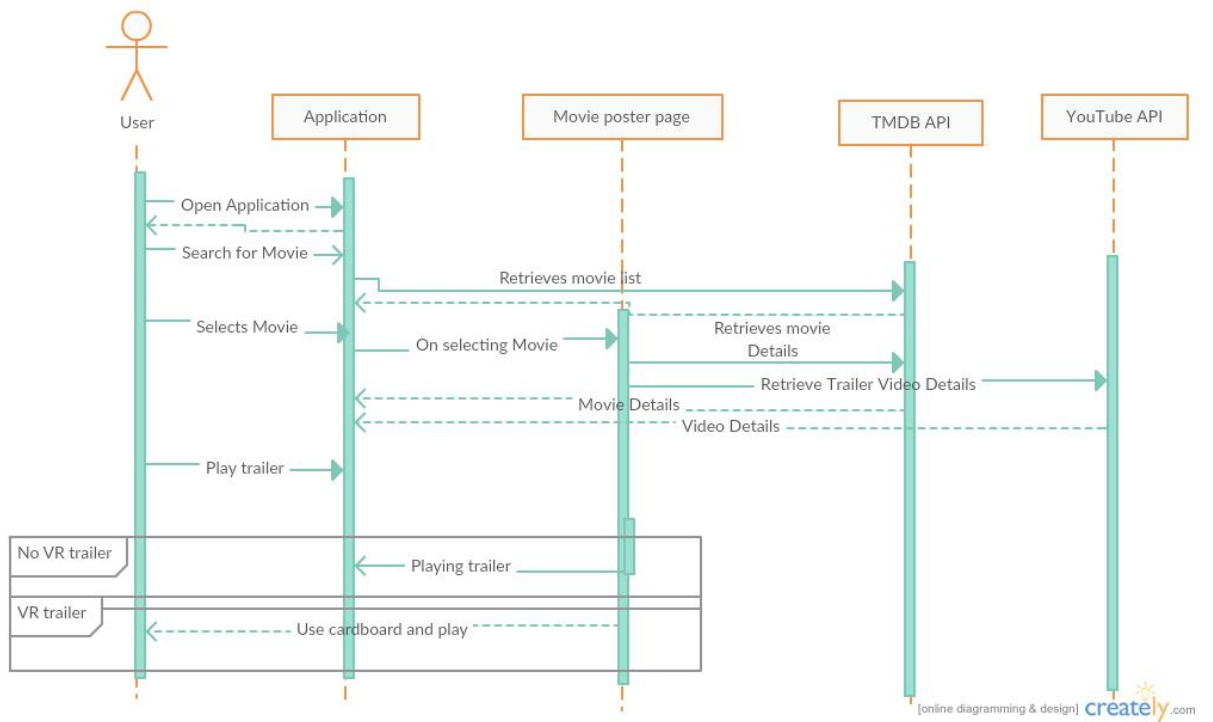


### 2.7.9. MOVIE DESCRIPTION SCREEN

Movie description screen contains the movie details like poster, movie title, release date, genre etc. YouTube trailer is available. If VR enabled trailer is available, then user can view in google cardboard. User can also share the movie description to social media with comments. Below are the UI wireframes and sequence diagram:

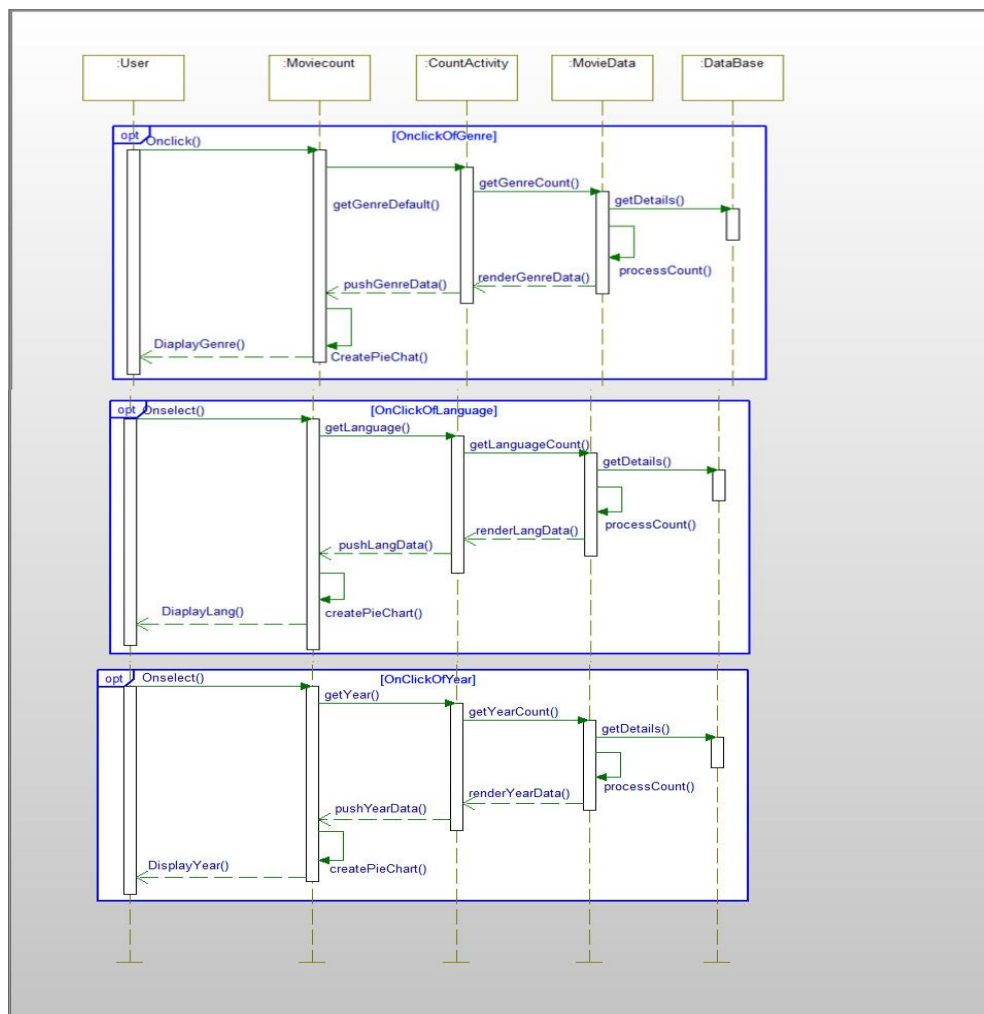
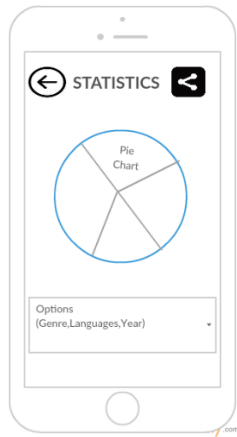






## 2.7.10. STATISTICS PAGE

On click of Movie Count on the search screen, user is redirected to statistics page. Pie chart based on genre of watched list is displayed by default and the description of the chart. User can filter the chart and alter the pie chart by selecting options like language, year etc. Below are the UI wireframes and sequence diagram.



## 2.7.11. WATCHED LIST, TO BE WATCHED LIST, FAVORITES LIST

On selection of Watched List, watched movie details will be shown on the screen.

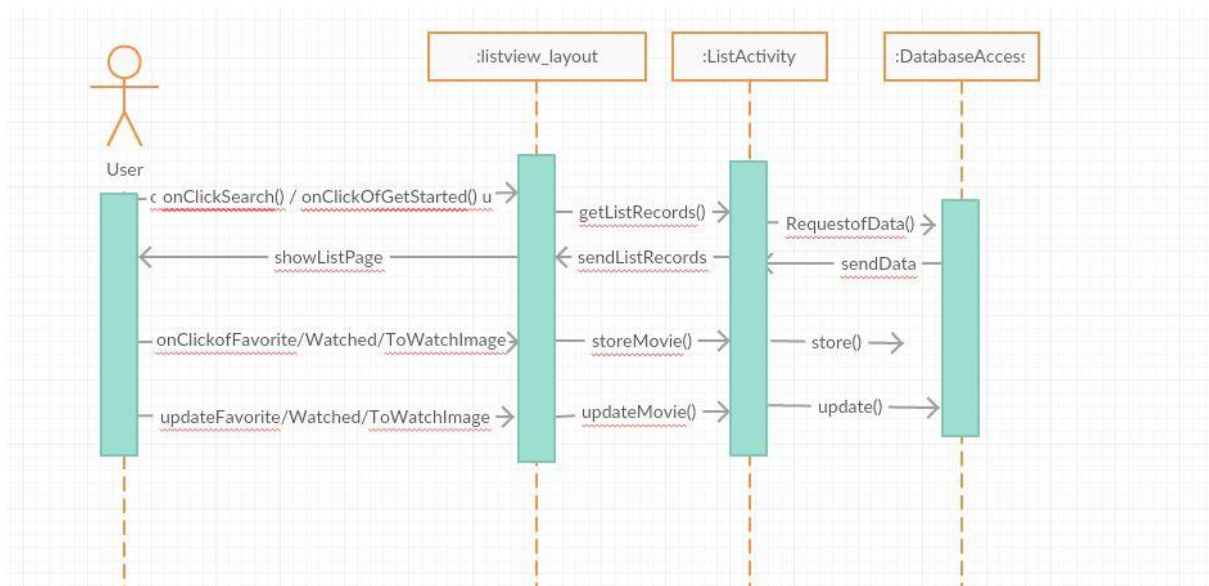
On selection of To Be Watched List, to be watched movie details will be shown on the screen.

On selection of Favourite List, favourite movie details will be shown on the screen.

When the user toggles the options to add into lists on the search screen or movie description screen, details will be stored into database.

Details will be fetched from database on selection of these pages. User can also toggle these options on these screens. Below are the UI wireframes and sequence diagram.





## 2.8. BURNDOWN CHART:

### Increment 1

[Edit Milestone](#)
[Milestones](#)

This project guideline includes three parts: 1) Revised Project Proposal 2) Project plan. 3) First Increment Report

[Labels](#)
[Hide Pull Requests](#)
[Burn Pipelines](#)

Start: **Feb 1, 2017** [Edit](#) Due: **Feb 17th, 2017** [Edit](#)



**72 Total Story Points**

72 Completed Story Points / 0 Remaining Story Points

**18 Total Issues and Pull Requests**

18 Completed Issues and PRs / 0 Remaining Issues and PRs

## Increment 2

[Edit Milestone](#)[Milestones](#)[Labels](#)[Hide Pull Requests](#)[Burn Pipelines](#)

Start: **Feb 21, 2017** [Edit](#) Due: **Mar 10th, 2017** [Edit](#)



100 Total Story Points

100 Completed Story Points / 0 Remaining Story Points

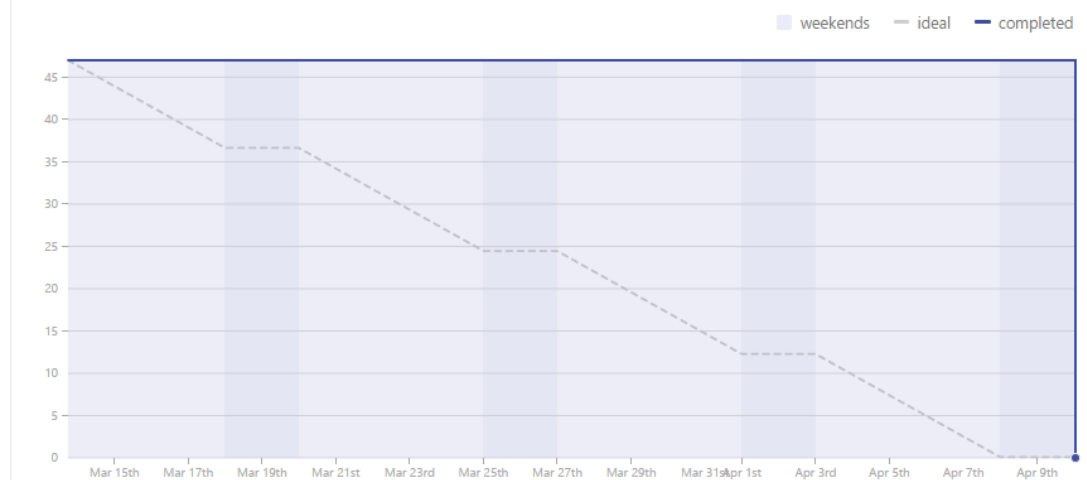
23 Total Issues and Pull Requests

23 Completed Issues and PRs / 0 Remaining Issues and PRs

## Increment 3

[Edit Milestone](#)[Milestones](#)[Labels](#)[Hide Pull Requests](#)[Burn Pipelines](#)

Start: **Mar 14, 2017** [Edit](#) Due: **Apr 10th, 2017** [Edit](#)



47 Total Story Points

47 Completed Story Points / 0 Remaining Story Points

14 Total Issues and Pull Requests

14 Completed Issues and PRs / 0 Remaining Issues and PRs

# Increment 4

Edit Milestone

Milestones

Labels

Hide Pull Requests

Burn Pipelines

Start: Apr 11, 2017 [Edit](#) Due: Apr 28th, 2017 [Edit](#)



69 Total Story Points

69 Completed Story Points / 0 Remaining Story Points

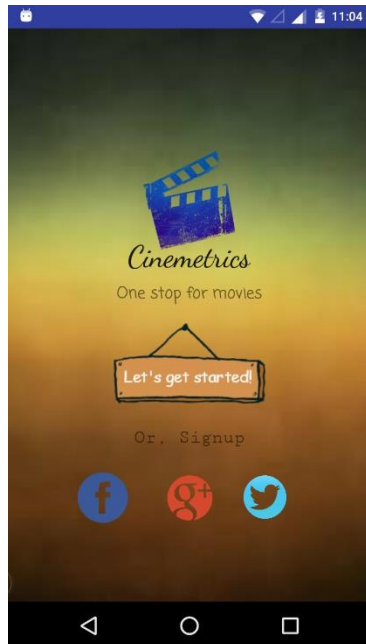
12 Total Issues and Pull Requests

12 Completed Issues and PRs / 0 Remaining Issues and PRs

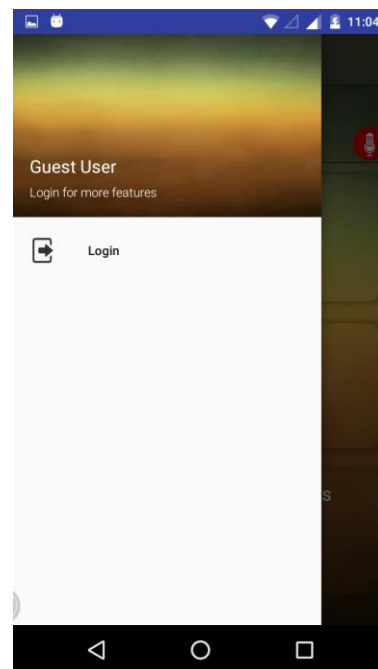
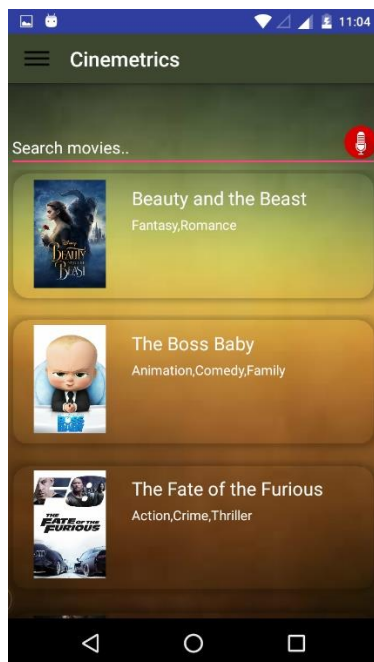
## 2.9. IMPLEMENTATION:

Guest User:

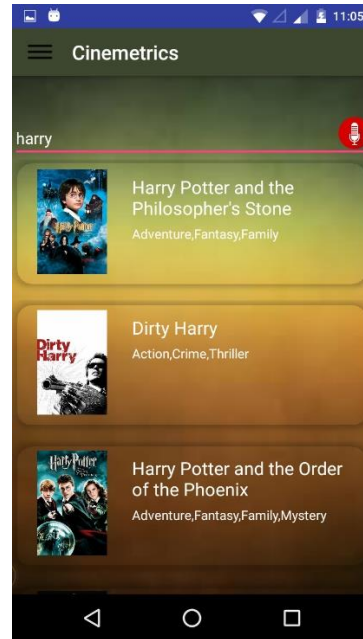
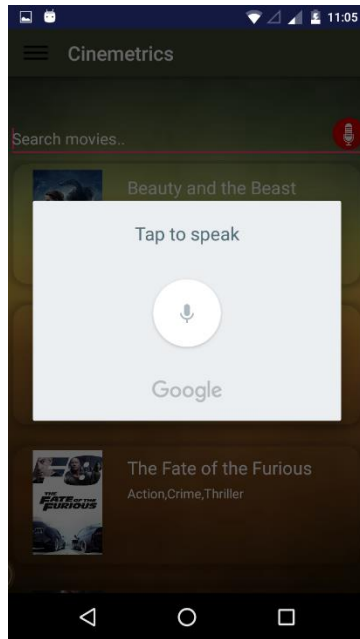
Landing Page:



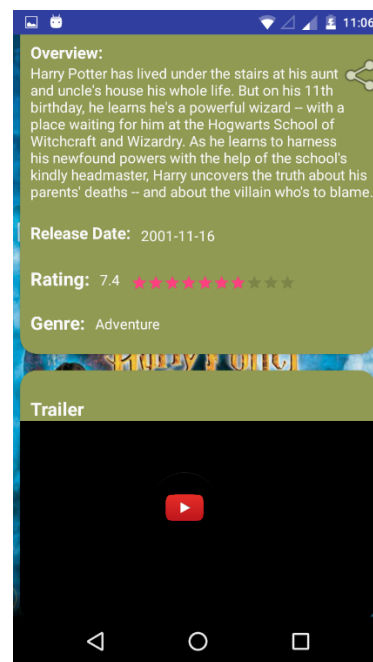
Guest User can check the application by clicking on Let's get started.  
Search screen with latest popular English movies are displayed.



User can type to search for movies or can use the mic. This lists down the movies with the searched content.

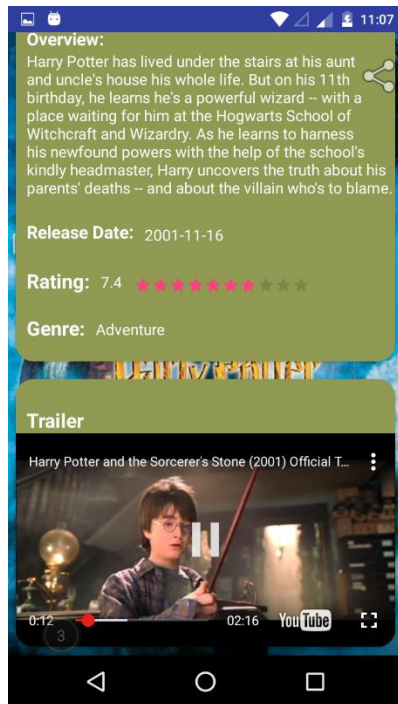


On click of movie, it redirects to movie description page

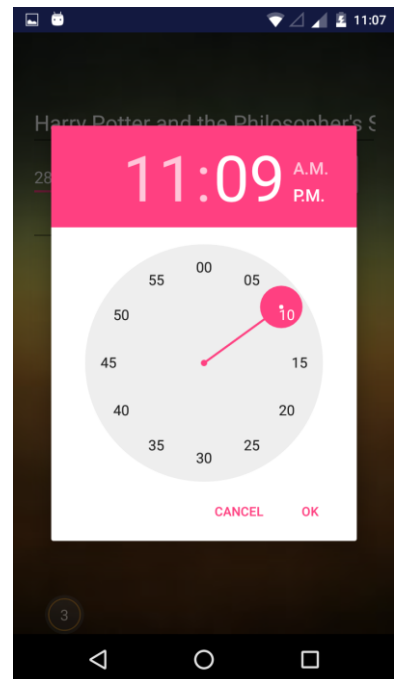
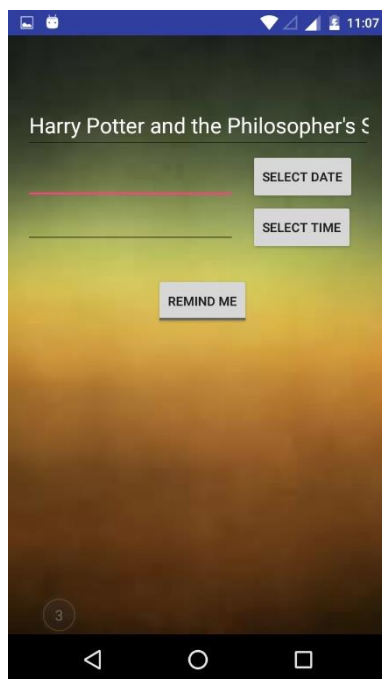


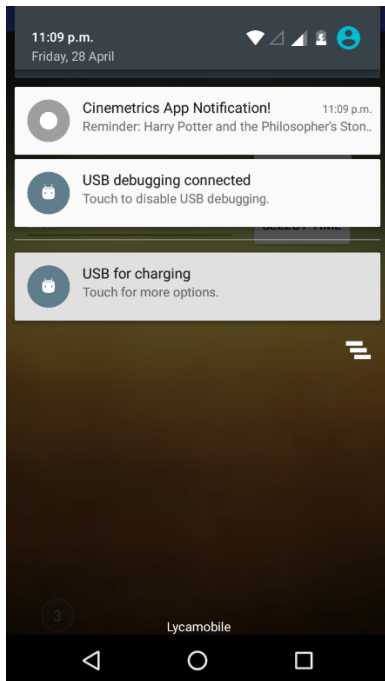
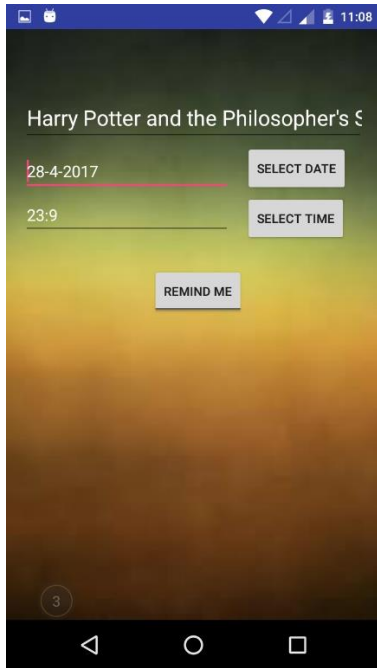


User can also play the trailer

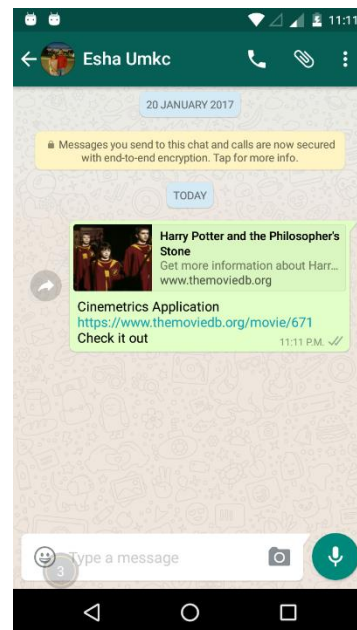
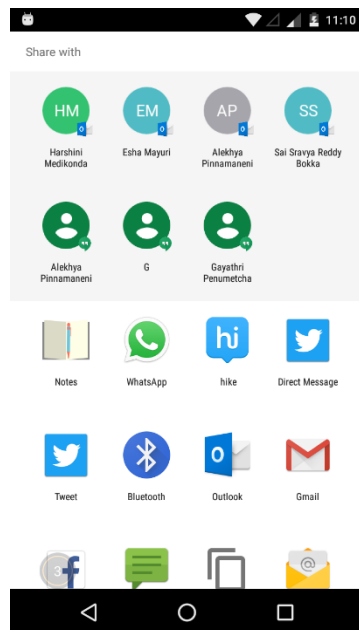


User has an option to set a remainder for the movie.  
On click of reminder,

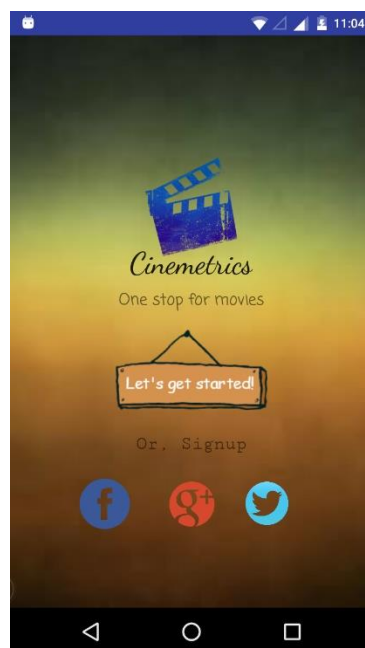




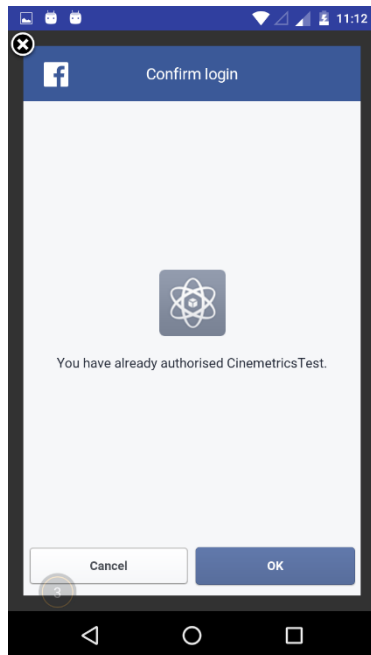
User can share the movie on social media,



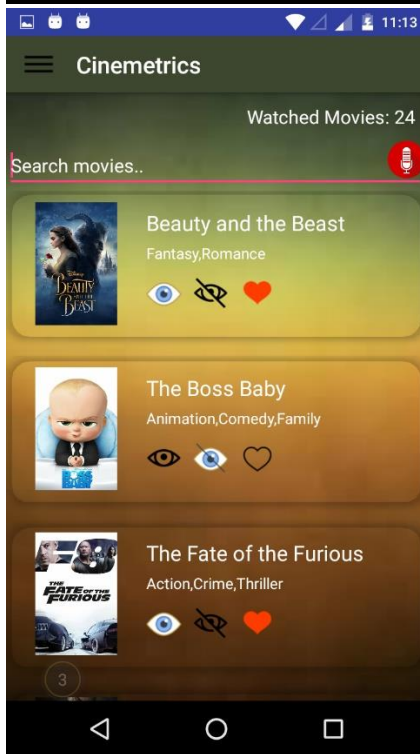
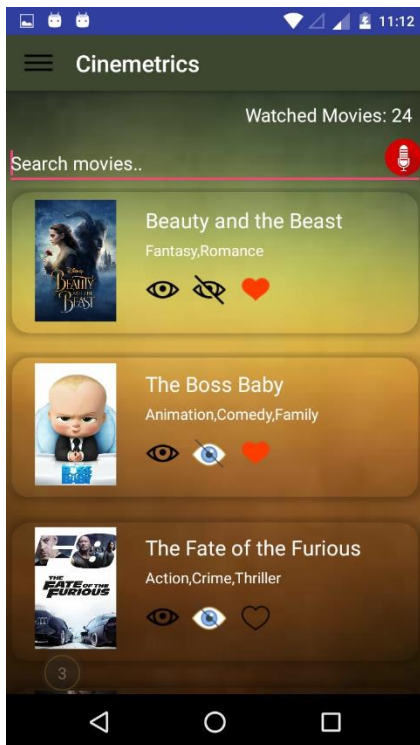
Registered user:

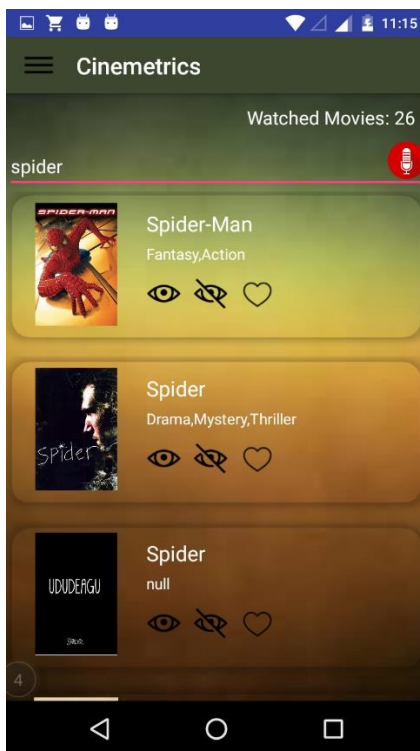
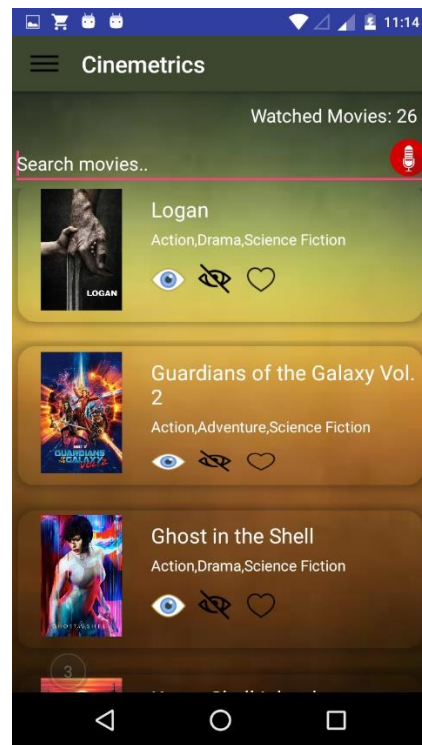
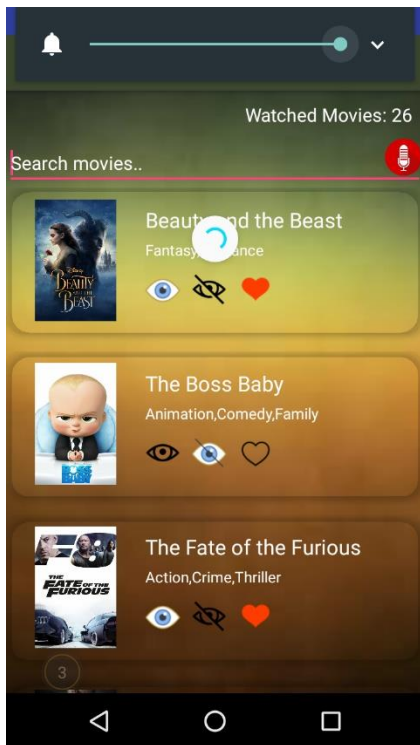


On click of Facebook,

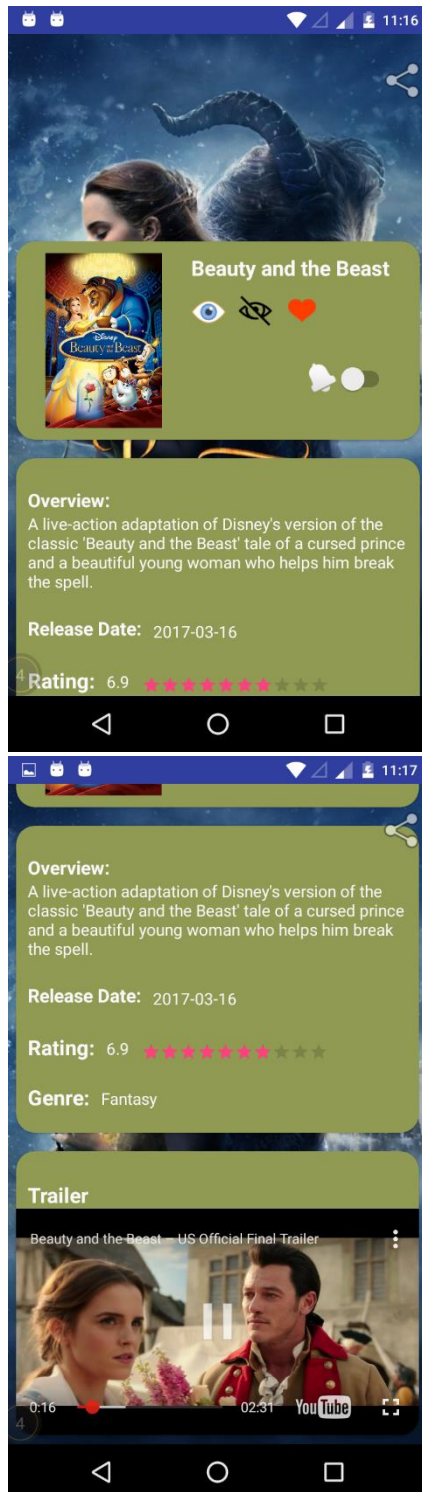


Search screen is displayed with the latest popular movies. User can select if he watched the movie, if he wants to watch a movie or favourite movie using toggle buttons. User has the watched movie count. User can search for any other movie using search field or mic button.

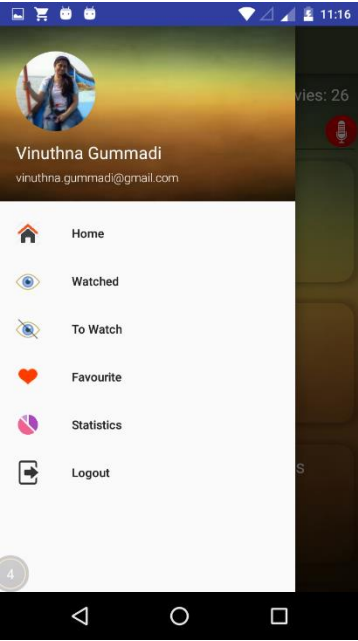




On click of movie, user is redirected to movie description page. User can set remainder for the movie using the remainder button.

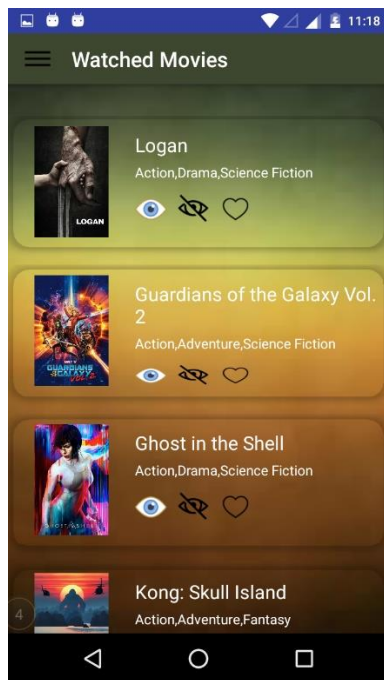


User can view watched list, to watch list, favourite list of movies which were selected on the search screen.

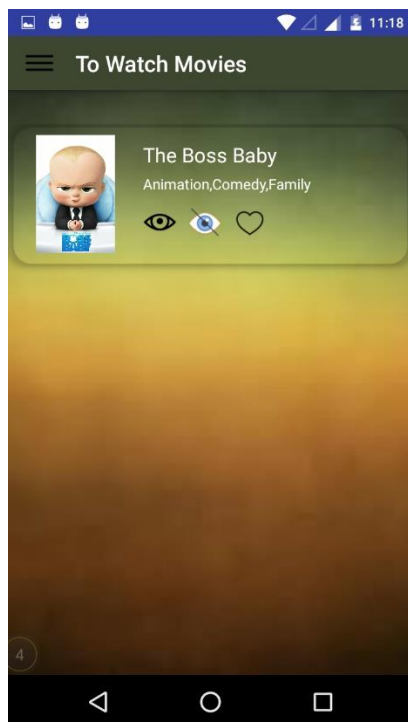




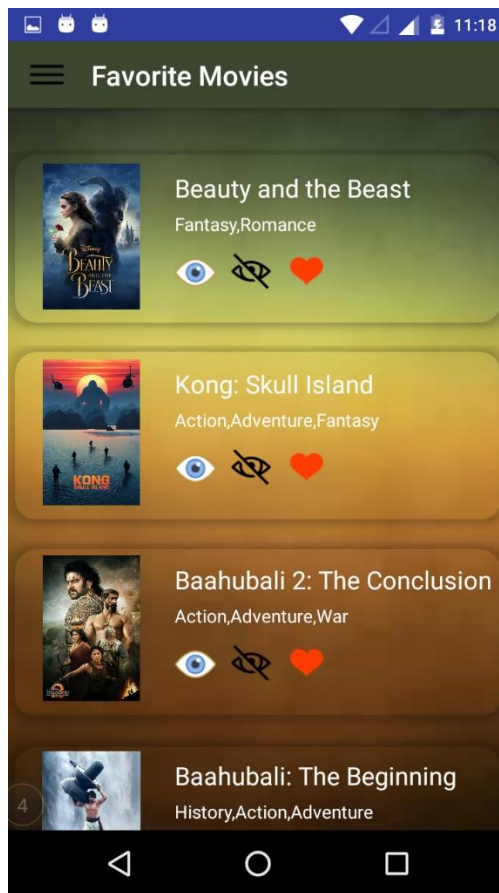
On click of Watched



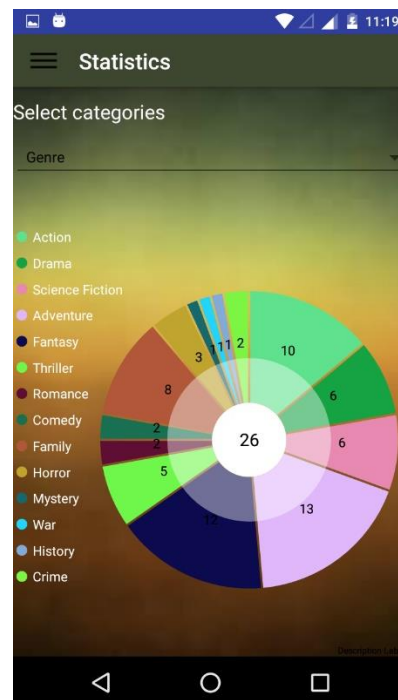
On click of To Watch

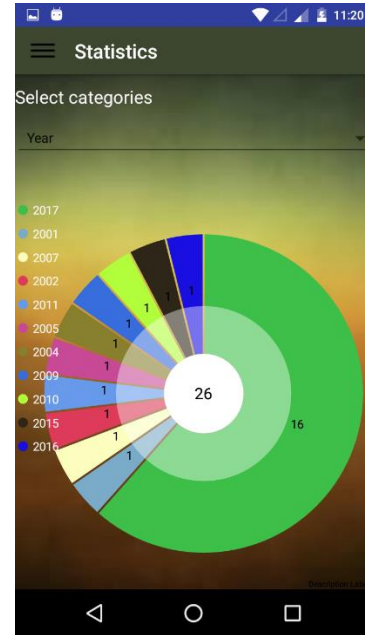
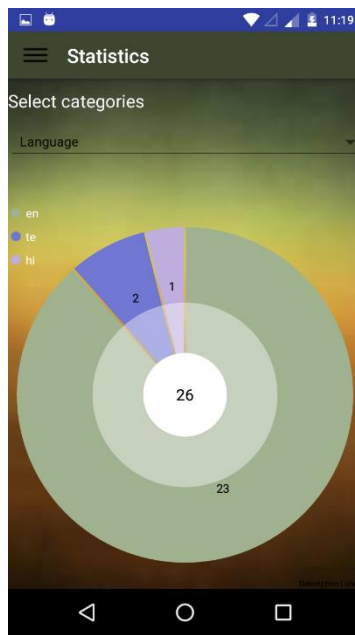


On click of Favourites



User can view the statistics of the movies he watched. On click of Statistics side menu or the movie count on search screen, it redirects to statistics screen





## GIT HUB

Source code: <https://github.com/Cinemetrics/Cinemetrics-Project/tree/master/Source/Cinemetrics>

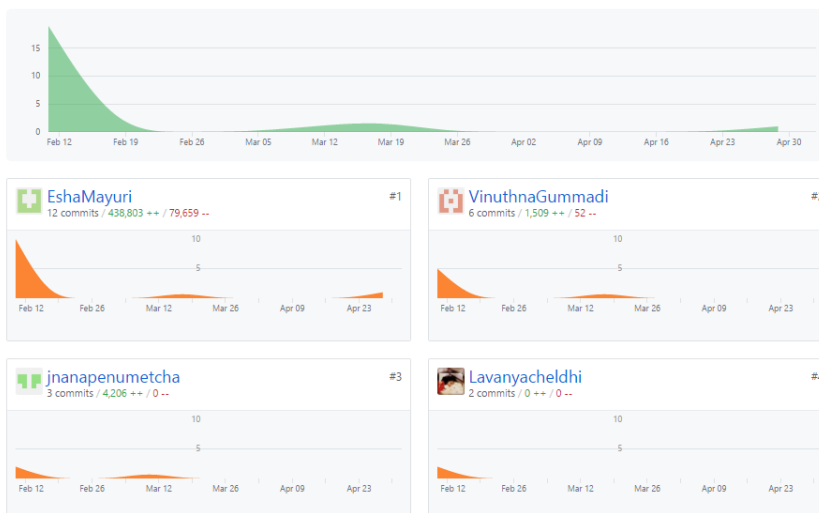
WIKI page: <https://github.com/Cinemetrics/Cinemetrics-Project/wiki/First-Increment-Report>

Project Plan: <https://github.com/Cinemetrics/Cinemetrics-Project/wiki/Cinemetrics-Project-Plan>

## 3. Project management report

Feb 12, 2017 – May 4, 2017  
Contributions to master, excluding merge commits

Contributions: Commits



#### 4. Final project evaluation

All the features and milestones are achieved on time. We are satisfied with the project work and design process. Agile process was very helpful in creating the app in regular basics along with our course work. Real management technique in our project is helping each other and completing the tasks. For the future score, we would like to change the architecture by introducing webservice on node js for all rest services.

#### 5. Project files

Git hub: <https://github.com/Cinematics/Cinematics-Project/>

APK: <https://github.com/Cinematics/Cinematics-Project/tree/master/apk>

Youtube demo: <https://www.youtube.com/watch?v=G7SVsvqj3kM>

PPT: [https://docs.google.com/presentation/d/1mwOqksUtQR\\_W-vKd9WTf0pFTwC8kQEHbpgye9epBETI/edit?usp=sharing](https://docs.google.com/presentation/d/1mwOqksUtQR_W-vKd9WTf0pFTwC8kQEHbpgye9epBETI/edit?usp=sharing)

#### 6. Bibliography

<https://www.themoviedb.org/documentation/api>

<https://console.firebase.google.com/>

<https://github.com/PhilJay/MPAndroidChart>

<https://developers.google.com/youtube/>

<https://mlab.com/>