Medianizer

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- Sai Karthikeya Addagada - 1

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Motivation & Decision

People end up using many applications, each for a specific kind of media. This is quite burdensome and frustrating sometimes. So here comes Medianizer, where a plethora of media is brought onto a single platform, so that the customers are likely to fetch desired media in the blink of an eye. Medianizer is a universal application, where you can avail a wide range of access over media. This is a collection of media such as Music, Videos, Photos and Books where users can rent or purchase media.

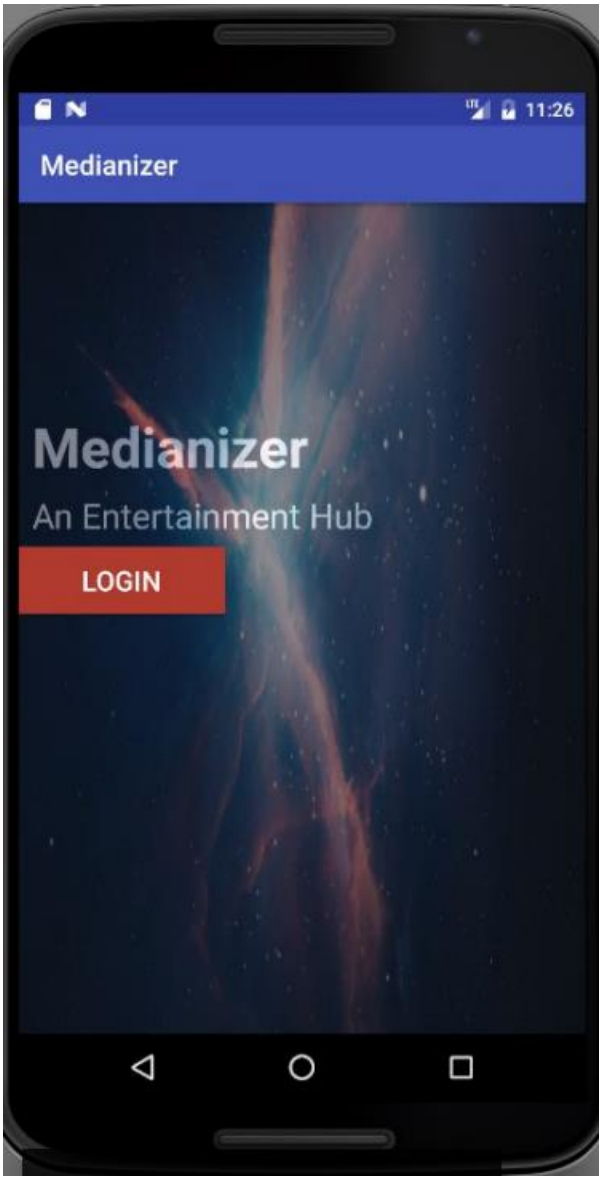
Project Deployment & Project Management

Application:

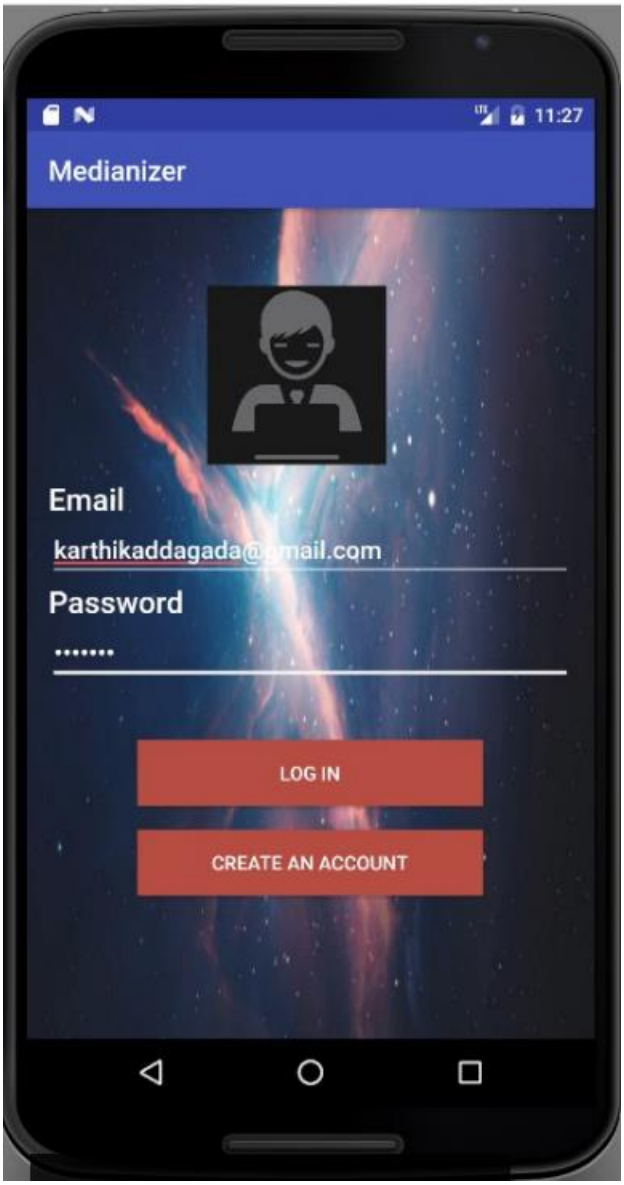
User Manual:

Directions to use:

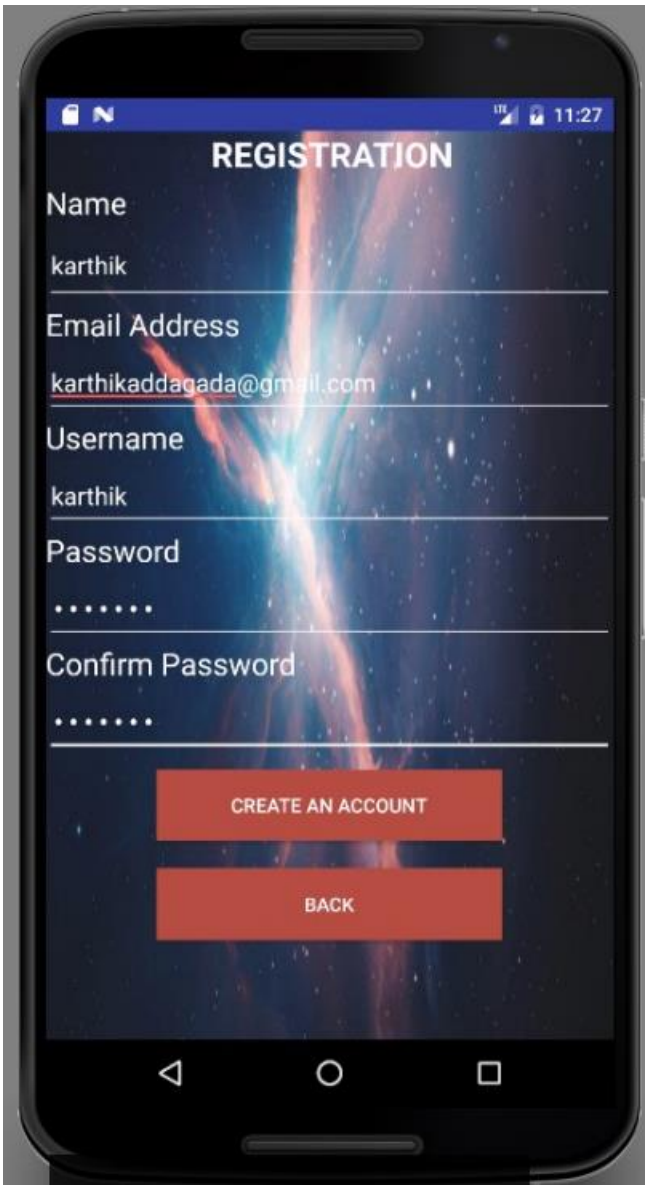
This is the homepage of our application, Medianizer.



On clicking on the Login button, the following page appears.

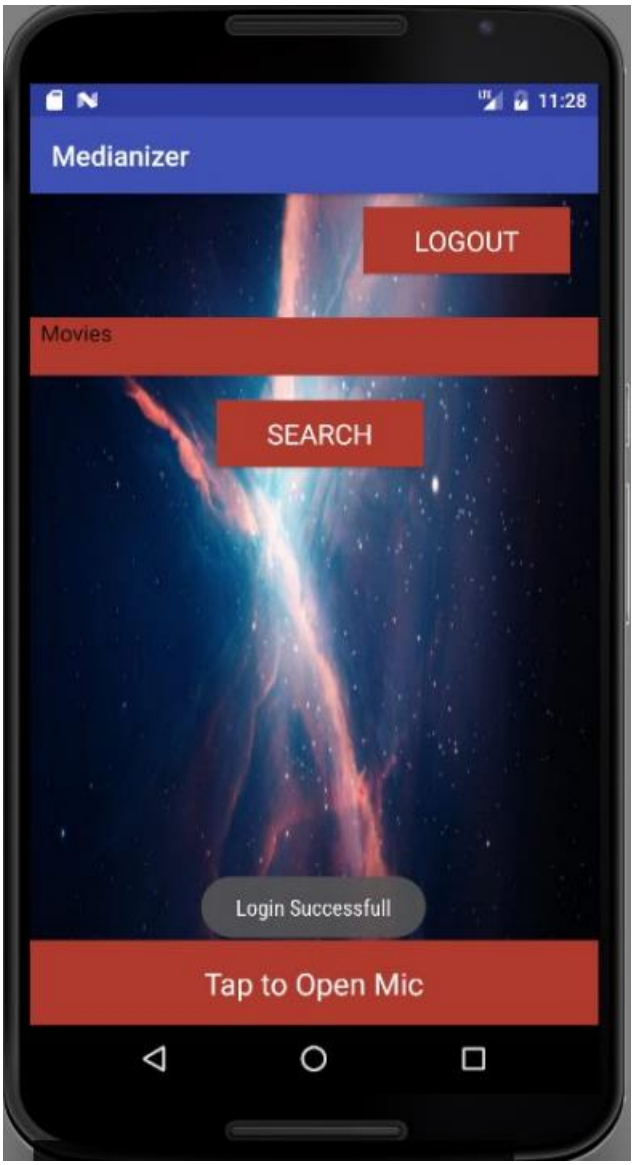


If the user is new to the application, on clicking on the Create an account button, the following page appears.



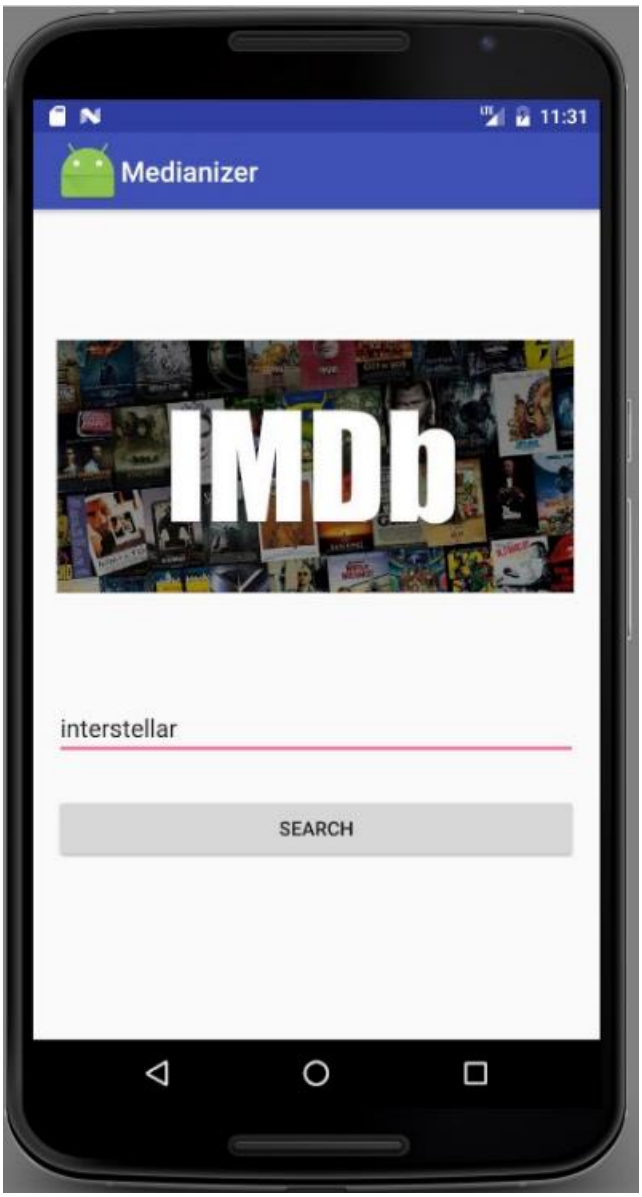
After filling the details, on clicking Create an account button, account will be created and the user will be able to login.

The following is the homepage of the application.

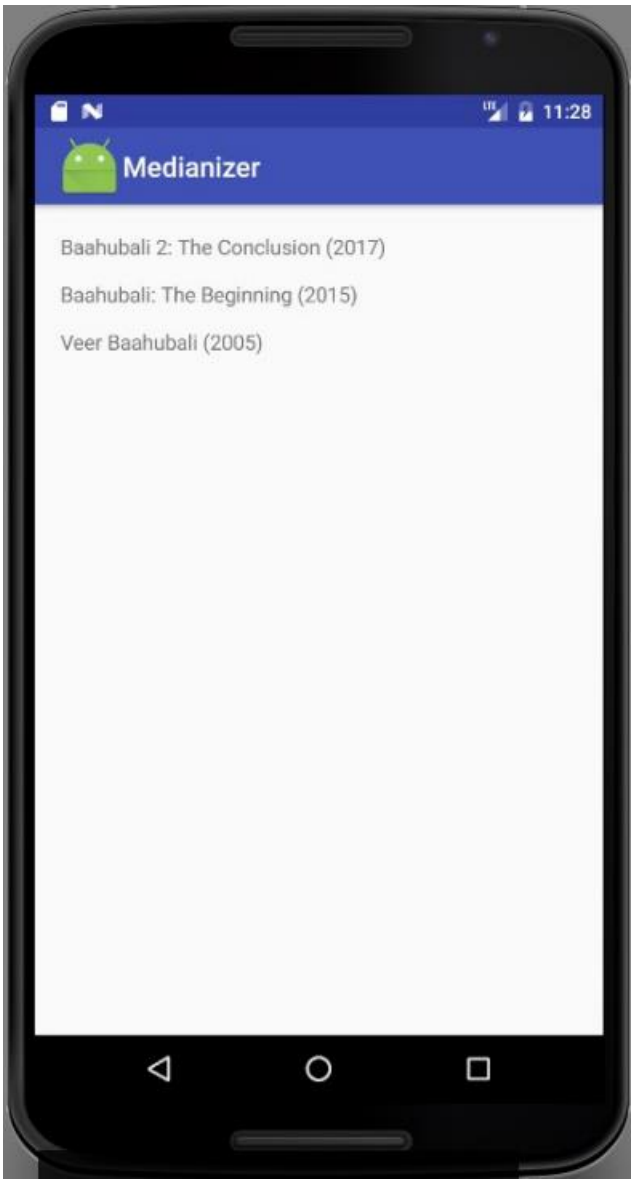


We have a drop-down list containing the media we provide in our application i.e., movies, music and books.

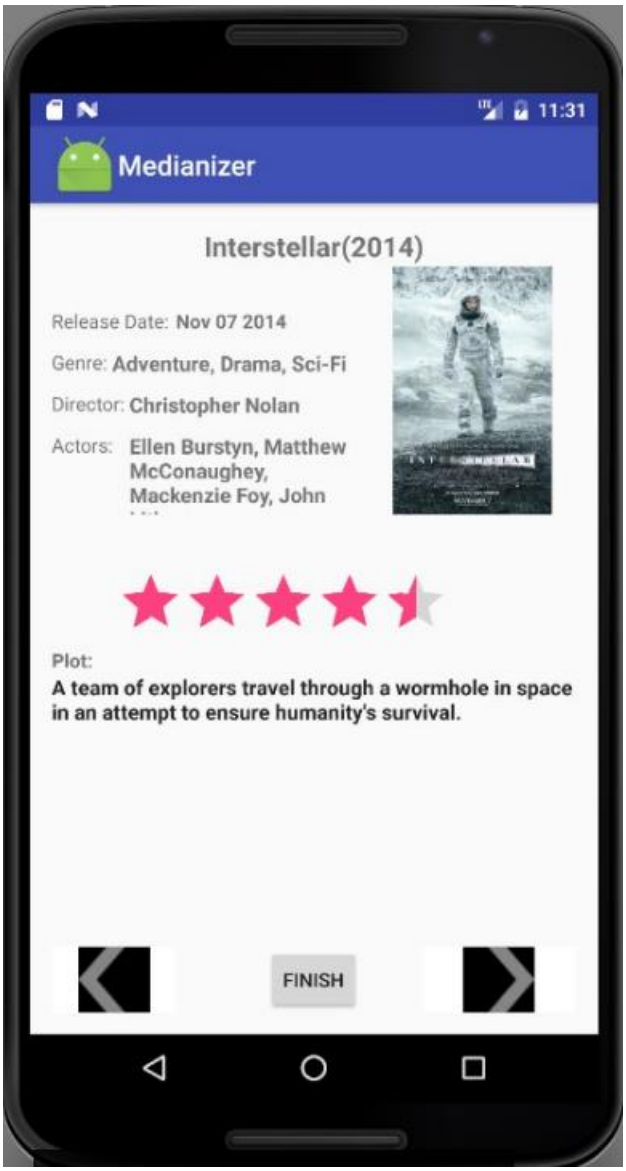
Upon selecting movies and clicking on the search button, the following page appears.



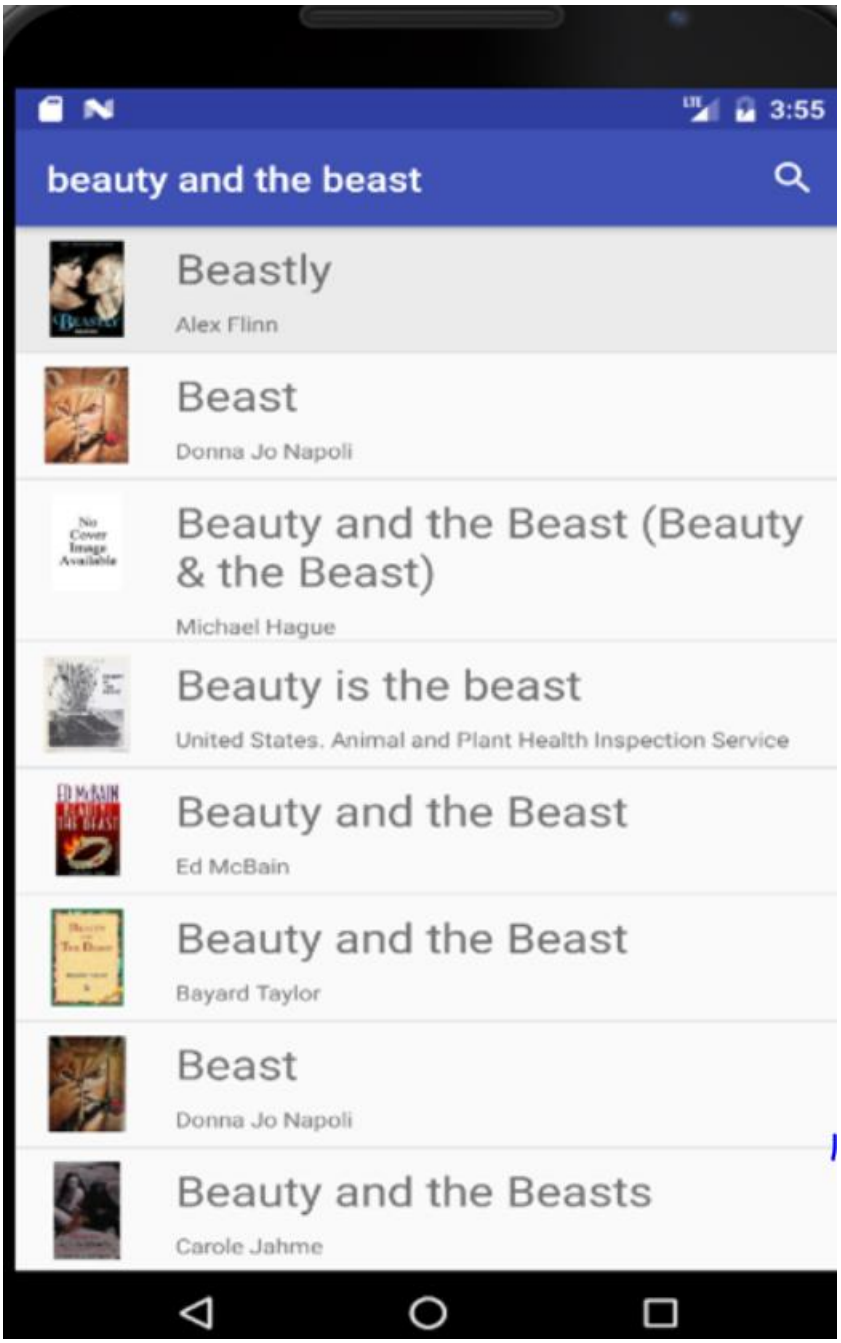
User can type for the desired movie and click the Search button. the following page appears with suggestions.



Upon selecting the desired movie from the list, the following page appears about the movie with its details from IMDb website.



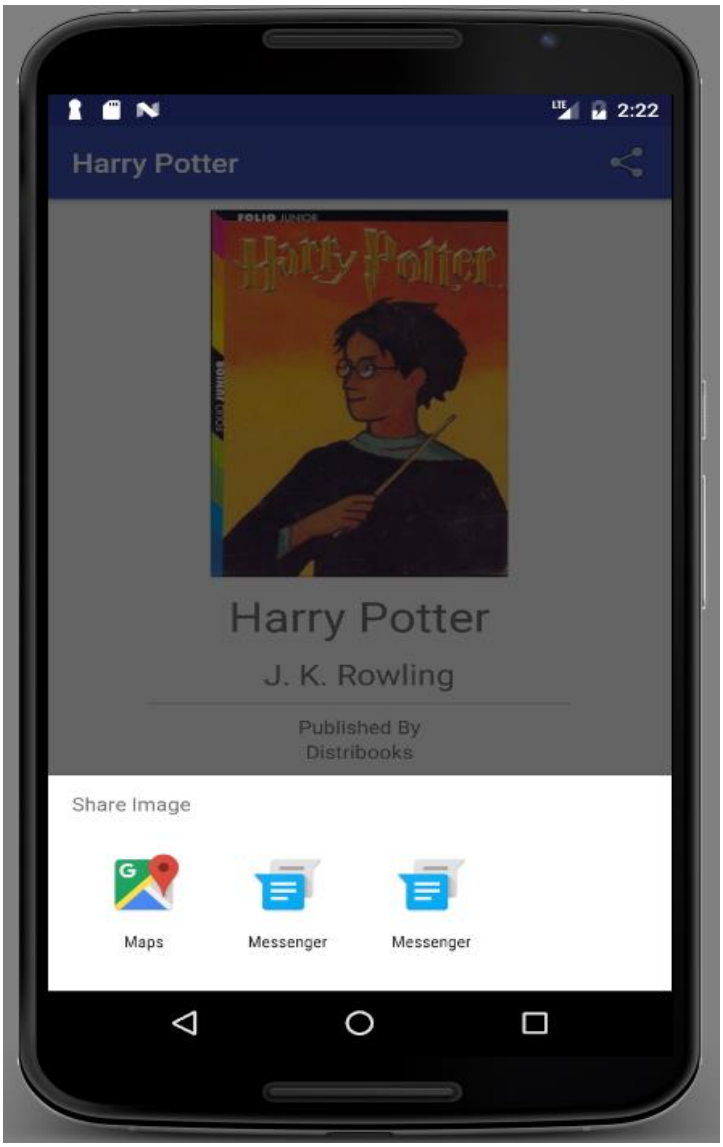
User can enjoy the trailer of the movie by clicking on the image in this page. As the user goes back to the home page of our application and searches for books from the drop down list, the following page appears.



User can select the desired book from this list and the following page appears with the book details.

User can share the cover page of the book using share option in the top right corner of the page.

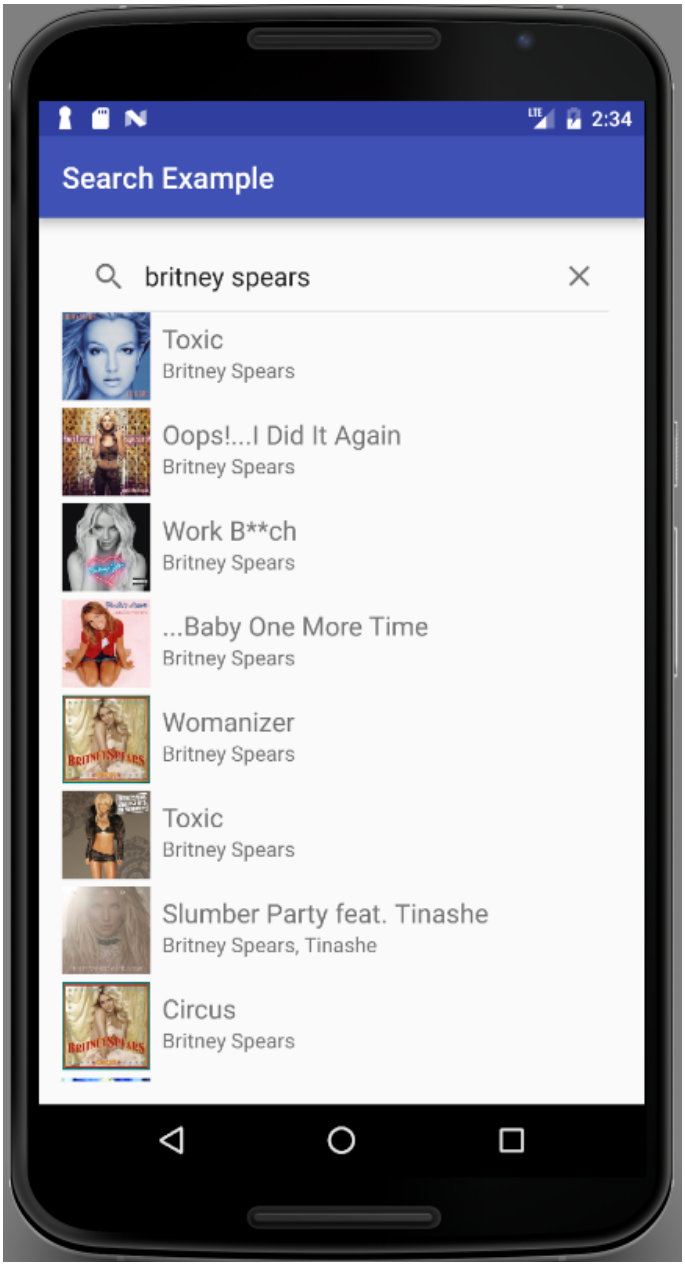
This enables the user to share the book with the help of any of the chat application present in the user's phone.



When the user searches for music from the drop down list in the home page, the following page appears.

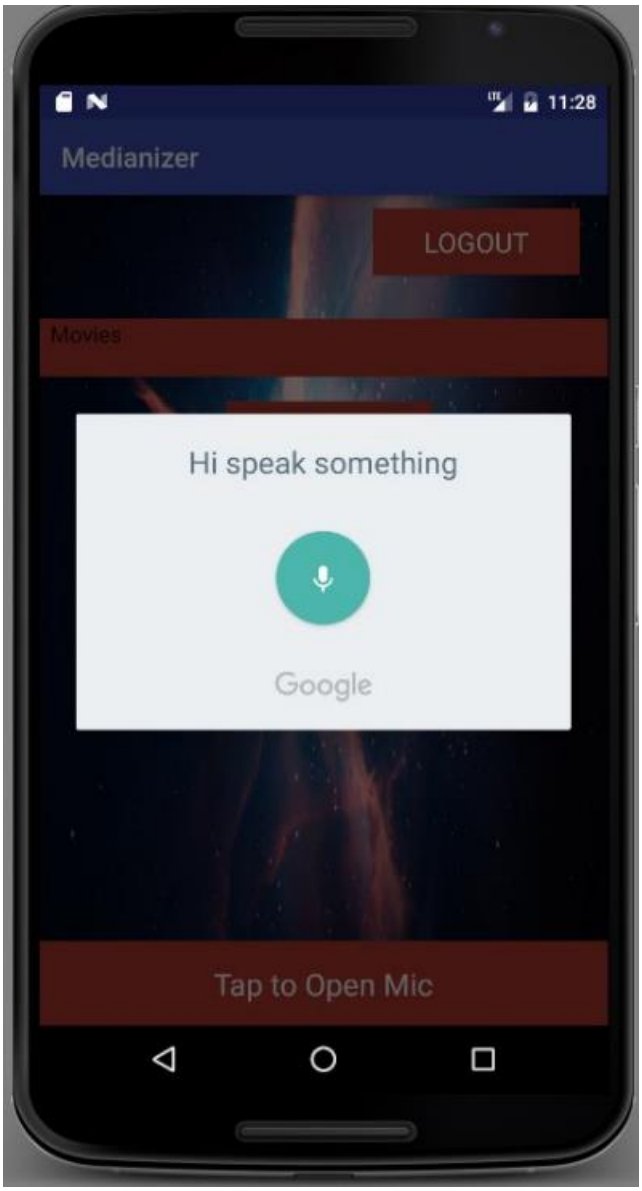
User can search for the desired song by clicking the search button which is at the top right corner of the page.

The following list of songs appears from which the user can listen by clicking on the song. User can pause the song by clicking on it again.



The additional feature of our application is the Voice search. There is a Tap to open mic button at the bottom of the page.

On clicking it, the following page appears where the user can speak and search for the desired media.

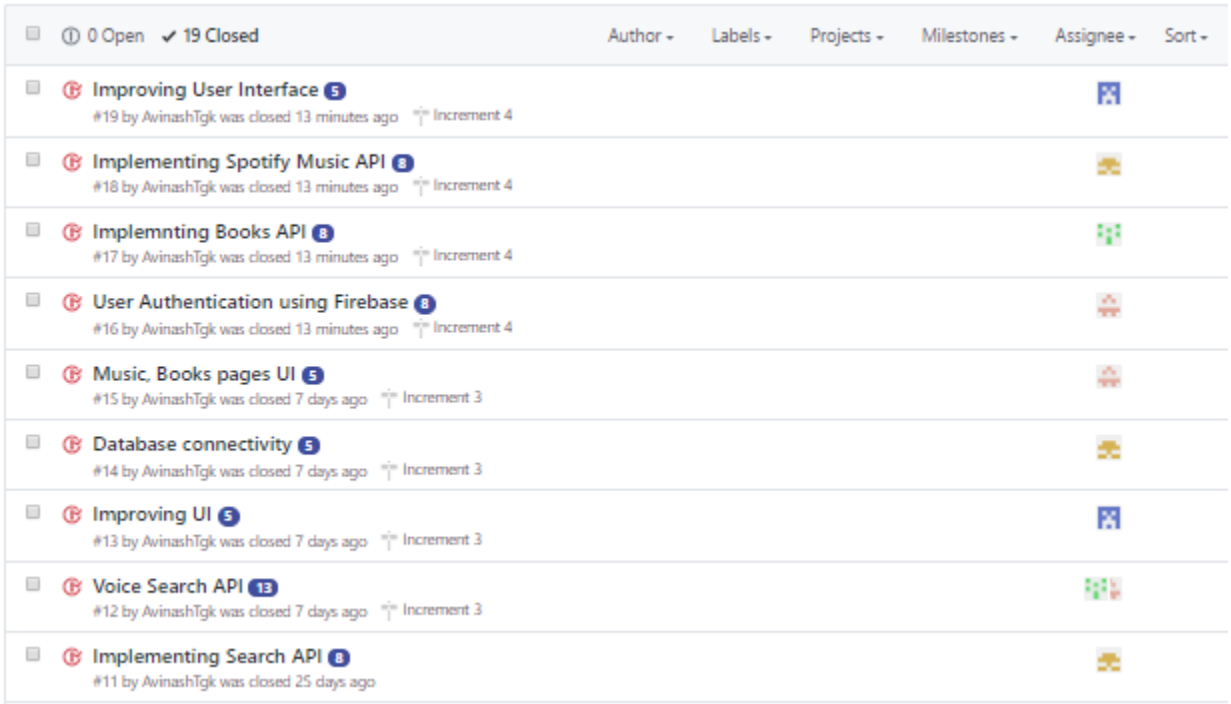

11:28
Medianizer
LOGOUT
Movies
Hi speak something
Google
Tap to Open Mic

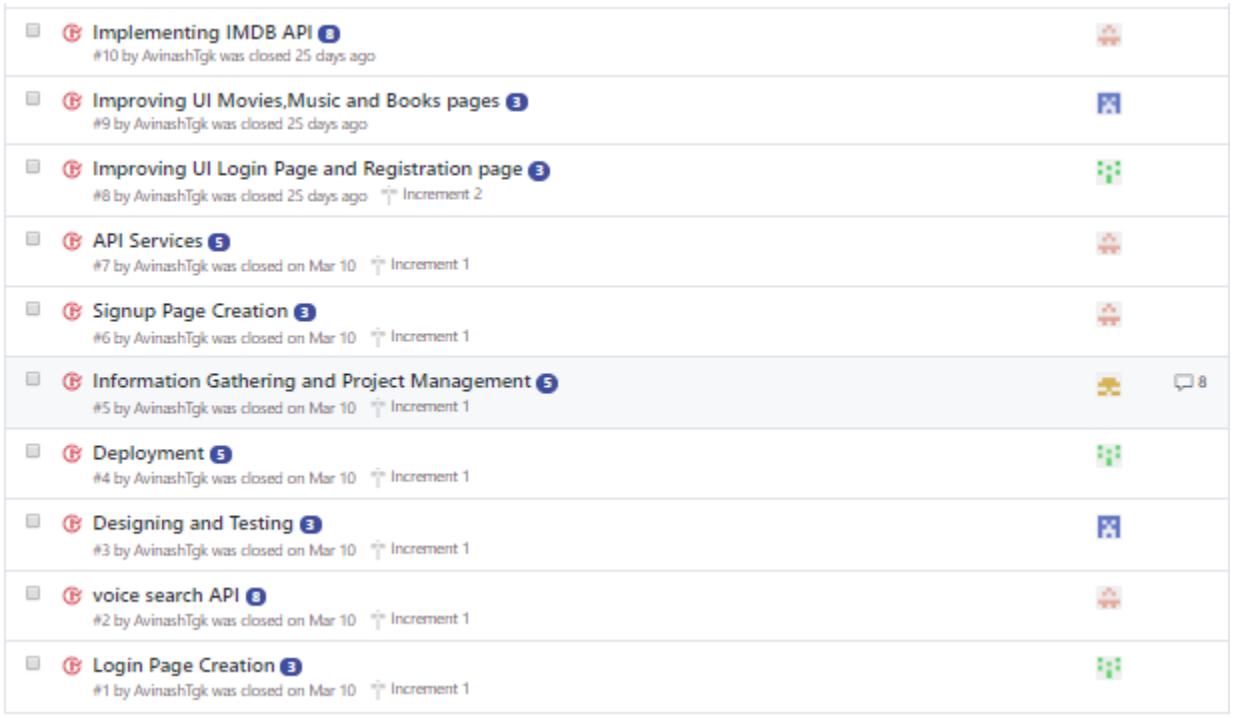
Project Management

Work Completed:

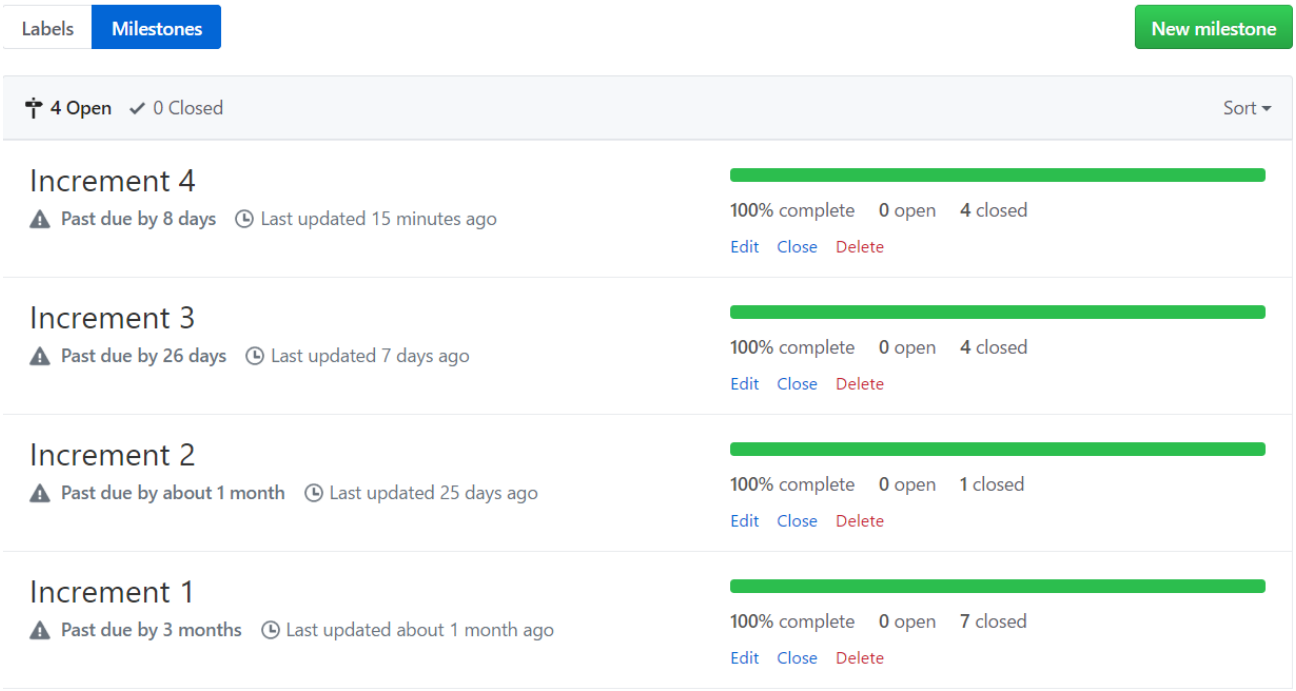
- Design and Architecture of the Application
- Login and Registration.
- User Authentication using Firebase
- Home Page Creation.
- Search for Movie in IMDB Database
- Watch trailer and Movie Information.
- API for IMDB Database.
- Search for Books on Database.
- Retrieving metadata of books.
- Sharing book cover page using any of the chat application
- API for Spotify.
- Playing and Resuming Music
- Improving the User Interface of the application.

Issues:




Implementing IMDB API 8
#10 by AvinashTgk was closed 25 days ago
Improving UI Movies,Music and Books pages 3
#9 by AvinashTgk was closed 25 days ago
Improving UI Login Page and Registration page 3
#8 by AvinashTgk was closed 25 days ago Increment 2
API Services 5
#7 by AvinashTgk was closed on Mar 10 Increment 1
Signup Page Creation 3
#6 by AvinashTgk was closed on Mar 10 Increment 1
Information Gathering and Project Management 5
#5 by AvinashTgk was closed on Mar 10 Increment 1
8
Deployment 5
#4 by AvinashTgk was closed on Mar 10 Increment 1
Designing and Testing 3
#3 by AvinashTgk was closed on Mar 10 Increment 1
voice search API 8
#2 by AvinashTgk was closed on Mar 10 Increment 1
Login Page Creation 3
#1 by AvinashTgk was closed on Mar 10 Increment 1

Milestones:


Labels
Milestones
New milestone
4 Open
0 Closed
Sort
Increment 4
Past due by 8 days
Last updated 15 minutes ago
100% complete 0 open 4 closed
Edit Close Delete
Increment 3
Past due by 26 days
Last updated 7 days ago
100% complete 0 open 4 closed
Edit Close Delete
Increment 2
Past due by about 1 month
Last updated 25 days ago
100% complete 0 open 1 closed
Edit Close Delete
Increment 1
Past due by 3 months
Last updated about 1 month ago
100% complete 0 open 7 closed
Edit Close Delete

Burndown Chart:

Final Project Evaluation:

The main moto of our project is to provide a single stop for the users who search for movies, books and music. When we try to go with movie block of our project we can view the movie cast and crew, ratings and watch the movie trailer. When we go with music we can search the song required and we can play it and with books we can view the book meta data and we can share with our friends (only the cover page). We tried to implement to buy or rent the products provided by us but unfortunately, we couldn't go with that as we cannot get the bank credentials and all the issues.

Agile process made our project management much easier when compared to other processes. Our team had a weekly standup. It's a great time for the team to sync up on what everyone is working on. We discussed what went well and what can be improved, so that we are learning and simultaneously improving the process. This worked well for our team, and helped us in working quickly towards project requirements.

Project Proposal

Project Goal:

The main goal of this application is to provide access to all the media like Music, Videos, Photos and Books over a single platform where people can buy or rent the desired media.

Objectives:

Users can create account and login with username and password.

Users can browse for movies, music and books from database.

Users can voice search for media.

Features:

Features we are deploying are:

Browse for E-Books: This feature enables the user to search for books related to a genre or the year of its release.

Browse for Movies: This feature enables the user to search for movies related to a genre or the year of its release.

Browse for Music: This feature enables the user to search for music related to a genre or the year of its release.

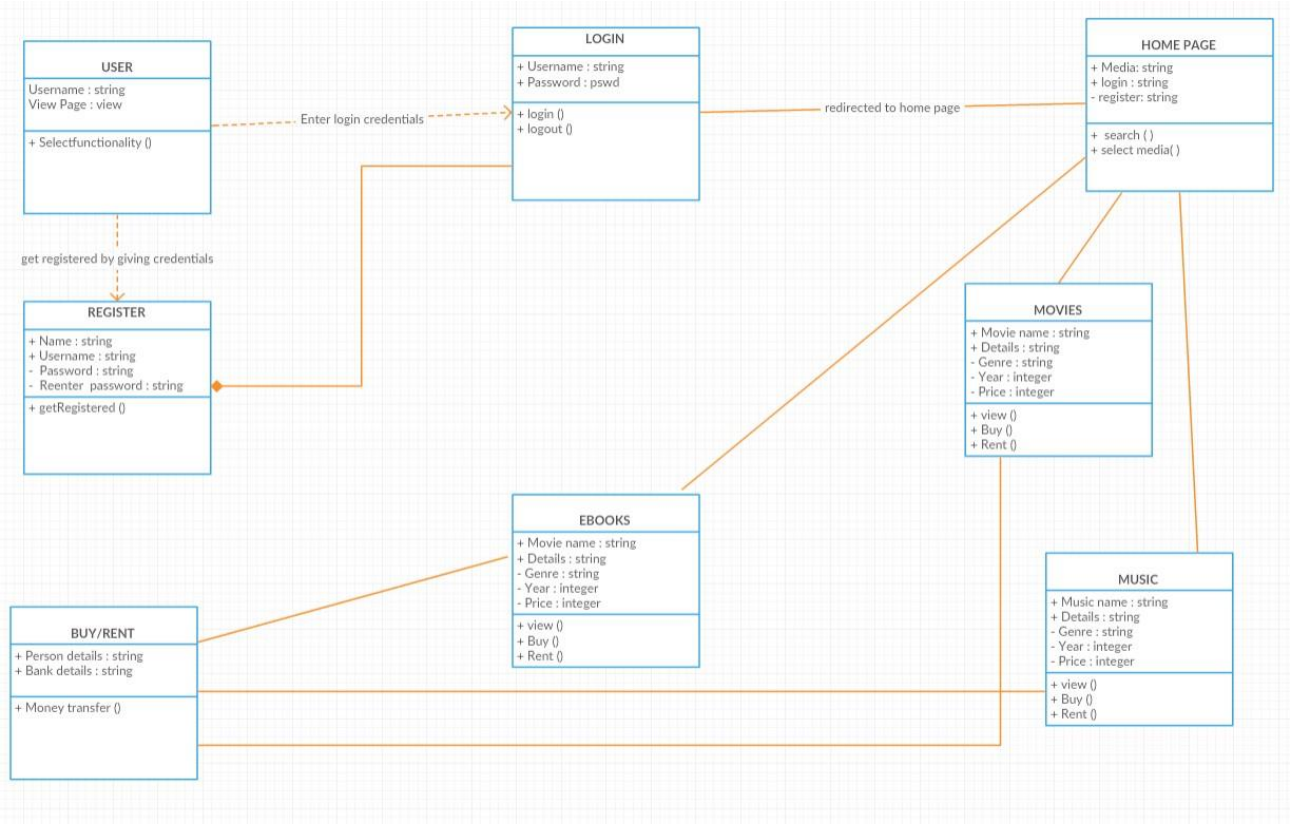
Voice Search: User can voice search for media.

Significance:

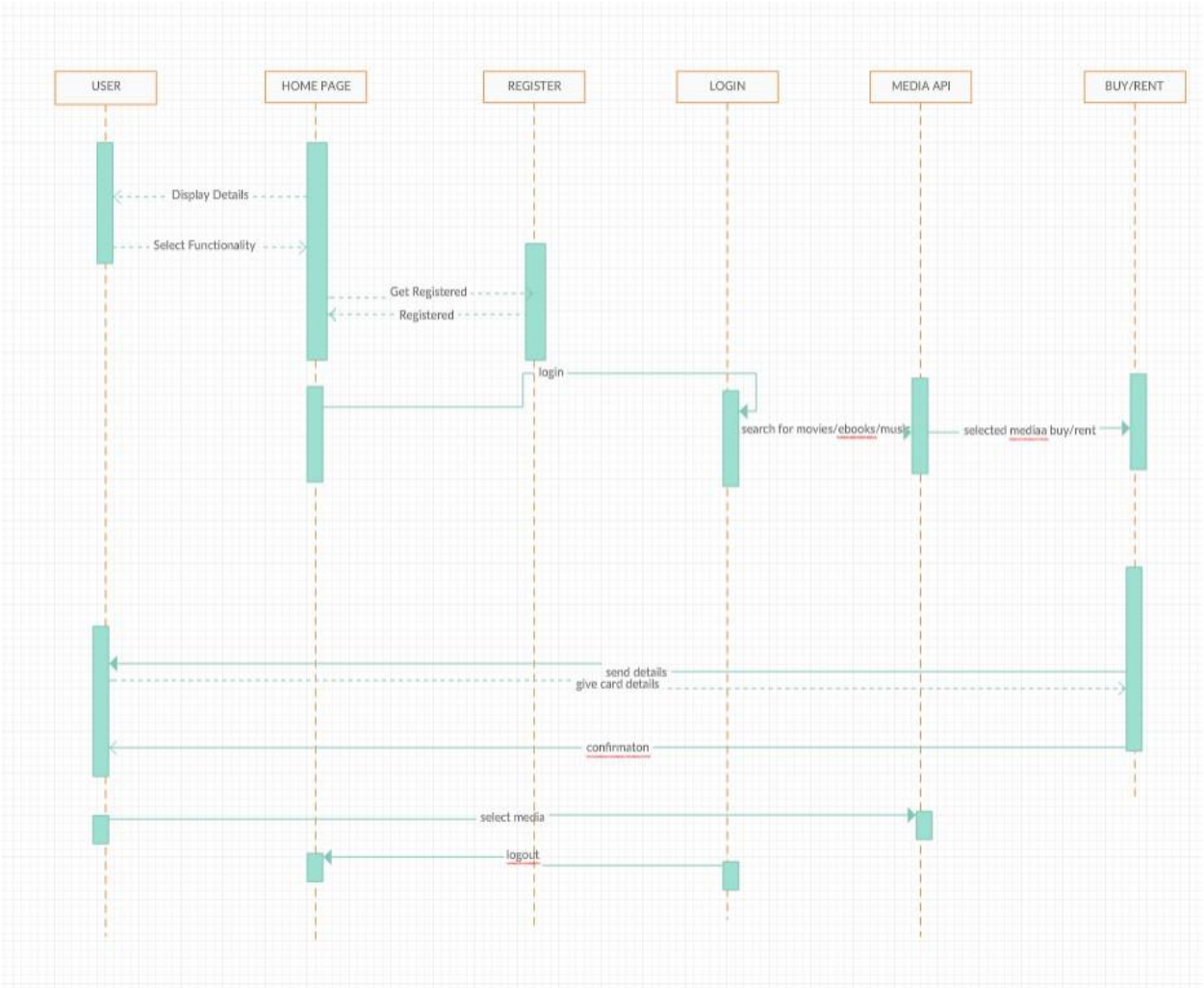
This application is a platform that provides access to a wide range of media like Music, Videos, Photos and Books over a single platform.

Project Plan

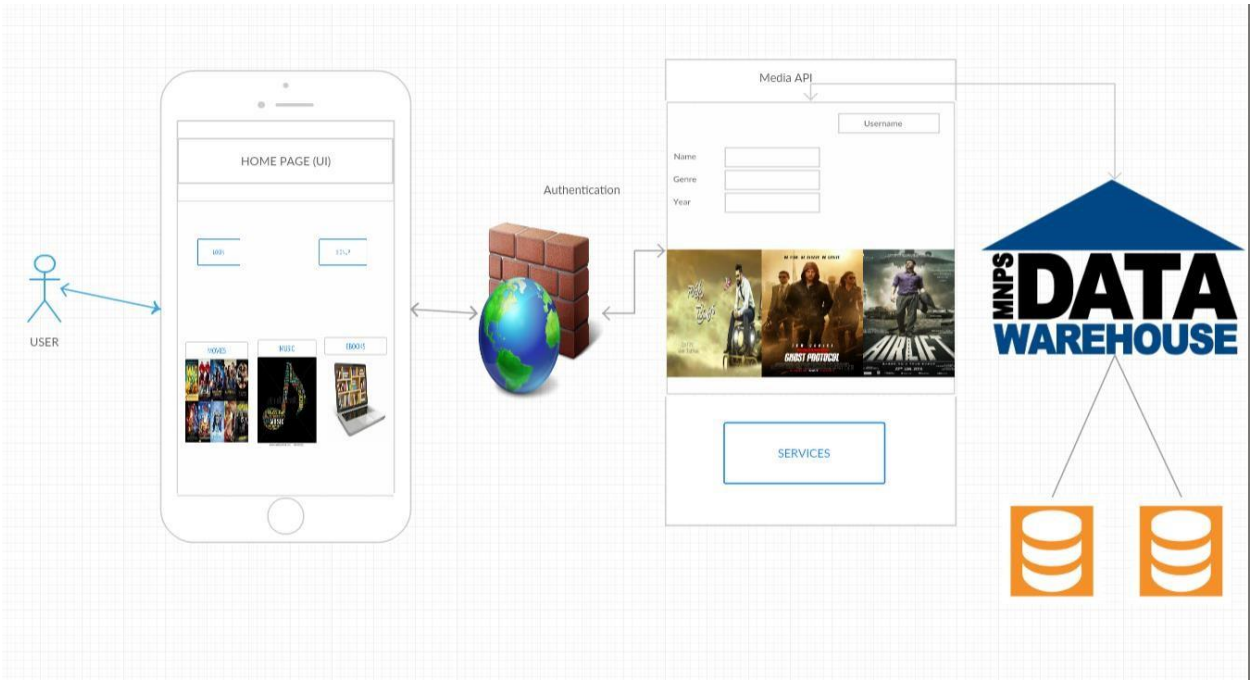
Class Diagram:



Sequence Diagram:



Architecture Diagram:



First Increment Report

Implementation

In First Increment, we have implemented following features:

- Login
- Registration

First Increment Report:

https://github.com/AvinashTgk/ASE-Team-Project/blob/master/documentation/Project%20plan%20and%20first%20increment.docx

Second Increment Report

Implementation

In Second Increment, we have implemented following features:

- IMDB API
- Voice Search API

Second Increment Report:

https://github.com/AvinashTgk/ASE-Team-Project/blob/master/documentation/Project%20plan%20and%20first%20increment.docx

Third Increment Report

Implementation

In Third Increment, we have implemented following features:

- Books API Implementation
- Database Connectivity using Firebase
- Improving User Interface

Third Increment Report:

https://github.com/AvinashTgk/ASE-Team-Project/blob/master/documentation/Increment-3/Project%20increment%203.pdf

Fourth Increment Report

Implementation

In Fourth Increment, we have implemented following features:

- Spotify API Implementation
- User Authentication

Fourth Increment Report:

https://github.com/AvinashTgk/ASE-Team-Project/blob/master/documentation/Project%20increment%204.docx

Testing

Sr. No	Test Case	Description	Expected Output	Result
1.	Successful User Authentication	The user should login with username and password.	Successful Login	Pass

2.	Unsuccessful User Authentication	The user logs in with wrong username or password	Login unsuccessful with error-Invalid username or password	Pass
3.	Registration by new user	Admin accepts registration details from the user	Successful registration and transition to Login page	Pass
4.	Invalid Email ID	Invalid Email Id alert.	Error- Enter valid email address	Pass
5.	Selection of music icon	Music button is selected from the search, page opens.	Music Page opens	Pass
6.	Search for the music in Music page.	On click the search and type the music name to be searched.	Displays all the songs on that name	Pass
7.	Play the song.	When one song is selected it plays.	Song Playing	Pass
8.	Open Book Page and search for a book	We can search for any type of books using the name of the book.	Books list is opened.	Pass

9.	Share book metadata and cover page	Can send the book name and its details to other users using the message applications in the phone.	Sharing the book and details	Pass
10.	Search for the movie in movies page and the details of the movies appear	The movie name is searched and the details of the movies can be seen.	Movie name and the trailer of the movie appears	Pass

Technologies Used

Implementation of Mobile Apps- Technology Used:

- XML
- Android SDK
- J2EE
- Firebase

Tools Used:

- www.Creately.com
- Android Studio

GitHub URL: https://github.com/AvinashTgk/ASE-Team-Project

Presentation URL:

https://github.com/AvinashTgk/ASE-Team-Project/blob/master/documentation/Medianizer.pptx

YouTube Project Video URL: https://www.youtube.com/watch?v=J_jyeP5LljA

Bibliography

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- https://www.w3.org/standards/xml/