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GitHub repo: *https://github.com/bpandayk/CSE134B*

Link: *https://cse134b-team-alpha.firebaseapp.com/Project5/index.html*

Welcome to MovieDex

Personalizing your movie watching experience, and sharing it with your fellow movie geeks.

1. Introduction

MovieDex is a webapp that lets you personalize your movie experience by cataloging the watched movies. It lets you create a movie "card" by filling out simple form to add movies and uploading the favorite poster for your movie. You can give this movie your own personal rating, like and dislike, and add a description that solely based on your own thoughts about the movie. To secure it all, a MovieDex account can be created using either a Google account, or any other emails, and signed in thereafter.

The following flowchart describes how MovieDex operates.

Fig. 1.1 Flow of MovieDex
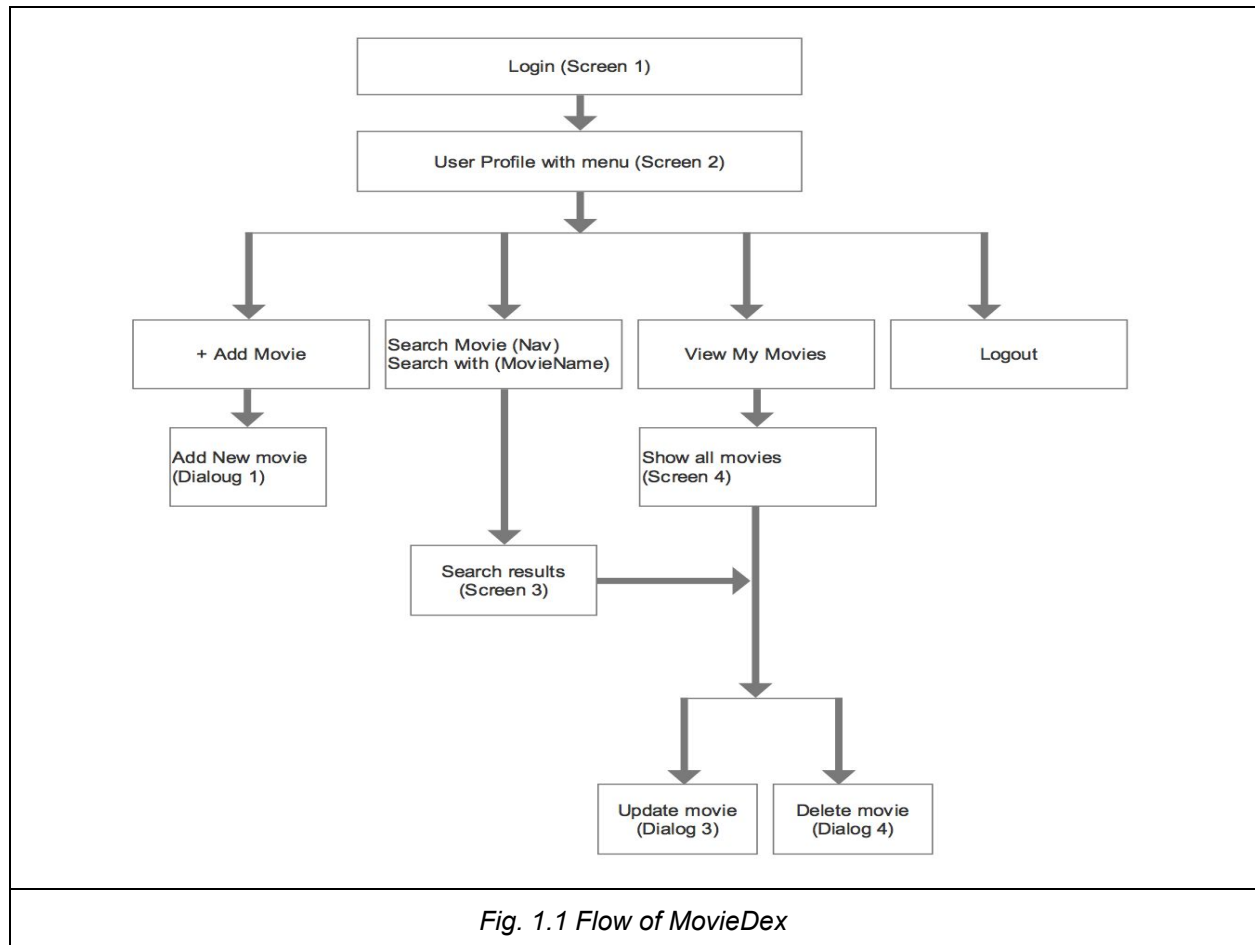
2. Getting Started

Getting started with MovieDex is fairly easy. The following link takes you to the Sign-In/Sign-Up page. Here, you can simply sign in using your username and password if you already have an account. If you are a new user, clicking on the Sign-Up tab takes, rotates the form and shows you to the sign-up option. If you have a google account, you can simple click on the "Sign In With google" to avoid filling out the signup form.
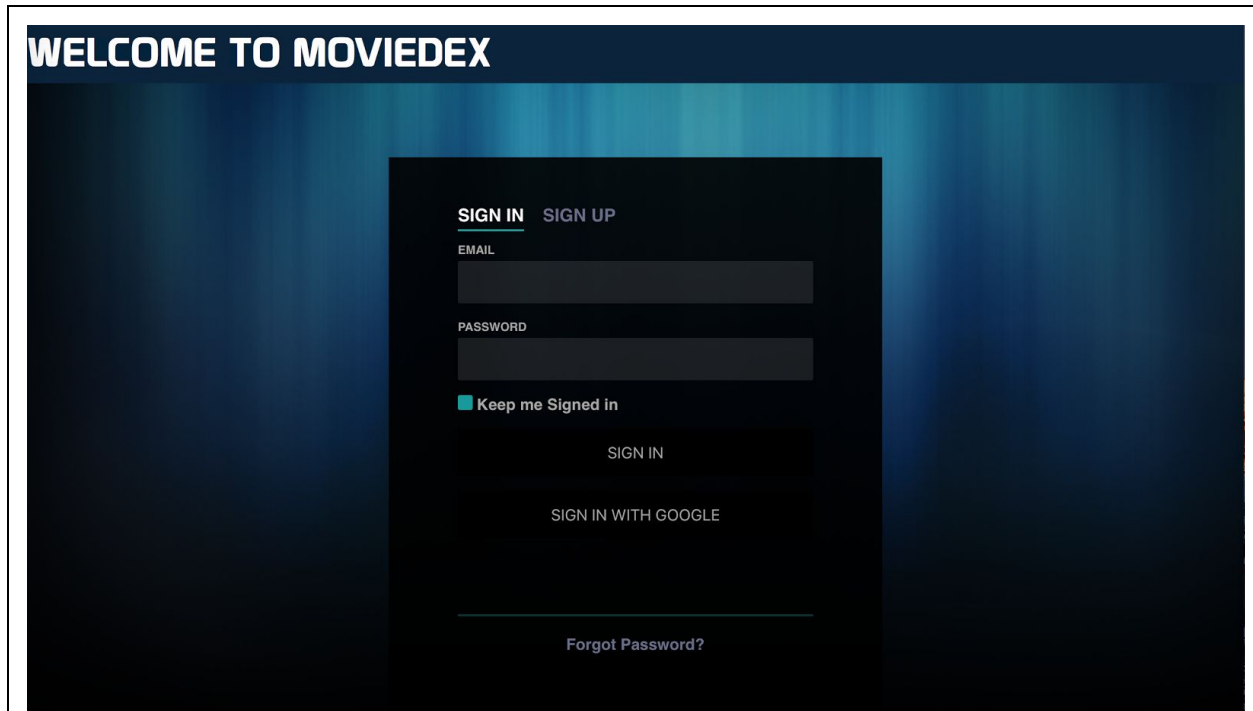
Fig. 2.1 MovieDex main page : https://cse134b-team-alpha.firebaseapp.com/Project5/index.html

Fig. 2.2 MovieDex Sign-In (left) | MovieDex Sign-up (right)

To achieve a better user experience (UX), MovieDex attempts to give you feedbacks throughout the application. For example, the buttons in the sign-in signup forms display a halo of bluish color upon mouse hover indicating it can be clicked. Similarly, upon entering wrong username and passwords, or attempting to login without credentials will display a text in red. Since, red is a quite visible color, and catches a human eye instantly, you would know right away if the login attempt has failed.
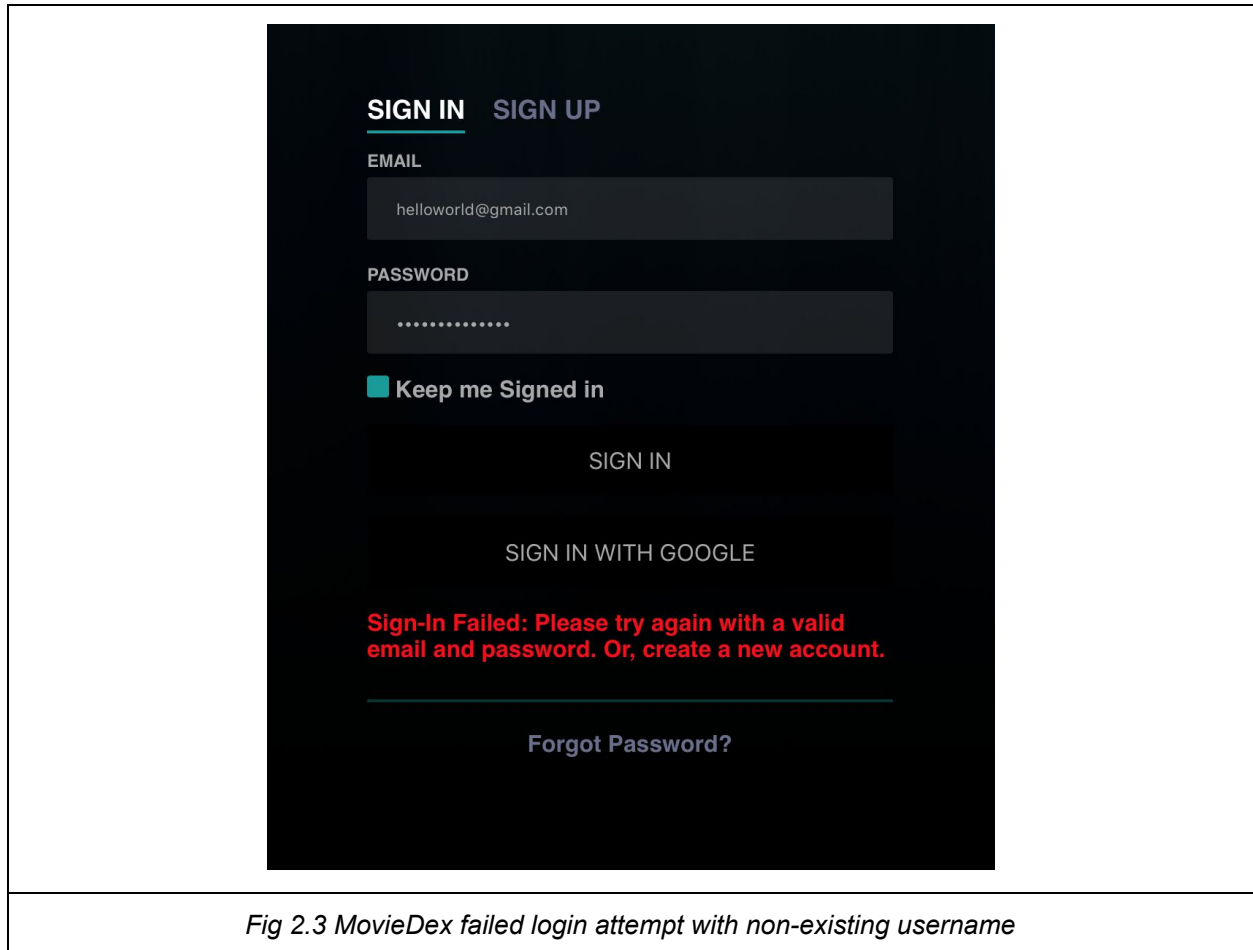

Fig 2.3 MovieDex failed login attempt with non-existing username

3. MovieDex Experience

After successfully signing in, you will reach the page where you can see all your movies that you have catalogued so far.

3.1 My Movies

My movies is the page where you land after signing in. Here you can view all your movies that you had previously added based on the genre. Clicking on any movies will take you to that movie's info. More on movies info is described in section 3.4 below.

3.2 Adding Movies

If you are a new user, the page will then be an empty page and you can begin adding your movies. Simply click on the "Add Movies" menu in the navigation bar. This will take you to a form where you will fill out movie name, watched date, your like and dislike based on rating and yes/no option, and your personal thoughts on the movie. The rating updates the stars below the movie picture on the left hand side. Figure 3.2.2 shows the form.
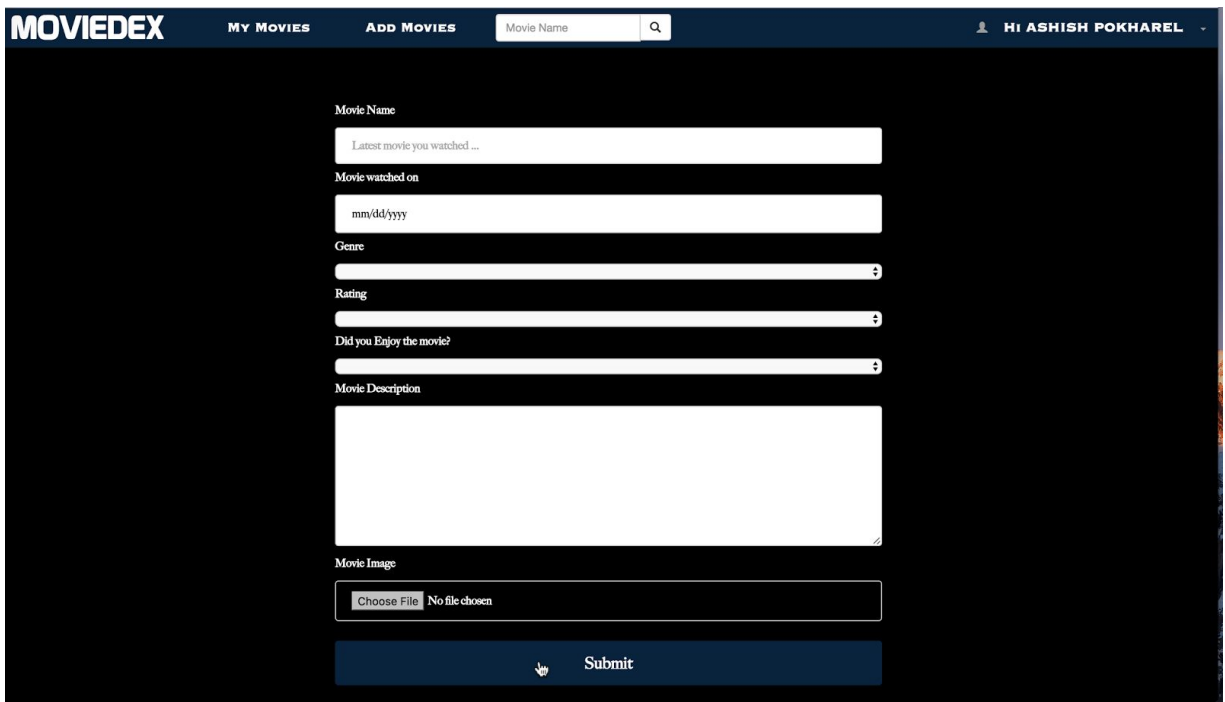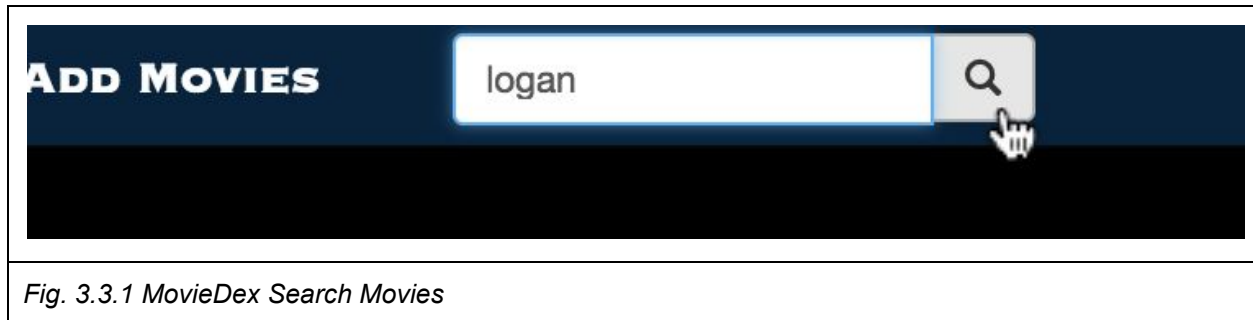

Fig 3.2.1 MovieDex Adding movies

Fig 3.2.2 MovieDex Add Movies form

3.3 Search Movies

Fig. 3.3.1 MovieDex Search Movies

3.4 Movie Info

Here you can view the information about the movie you selected. It features the movie name, watched date, your personal rating, and your thoughts about the movie in the description field. Movie info can be accessed by clicking on any movie, displayed as a thumbnail picture under a genre. From the movie info page, you can select the Update or Delete option. Update will take you to the form similar to Add Movie form, and entering desired values in the form fields will updated the movie information. Delete will simply remove the movie entry from the database and the profile.

Fig. 3.4.1. MovieDex Movie Info
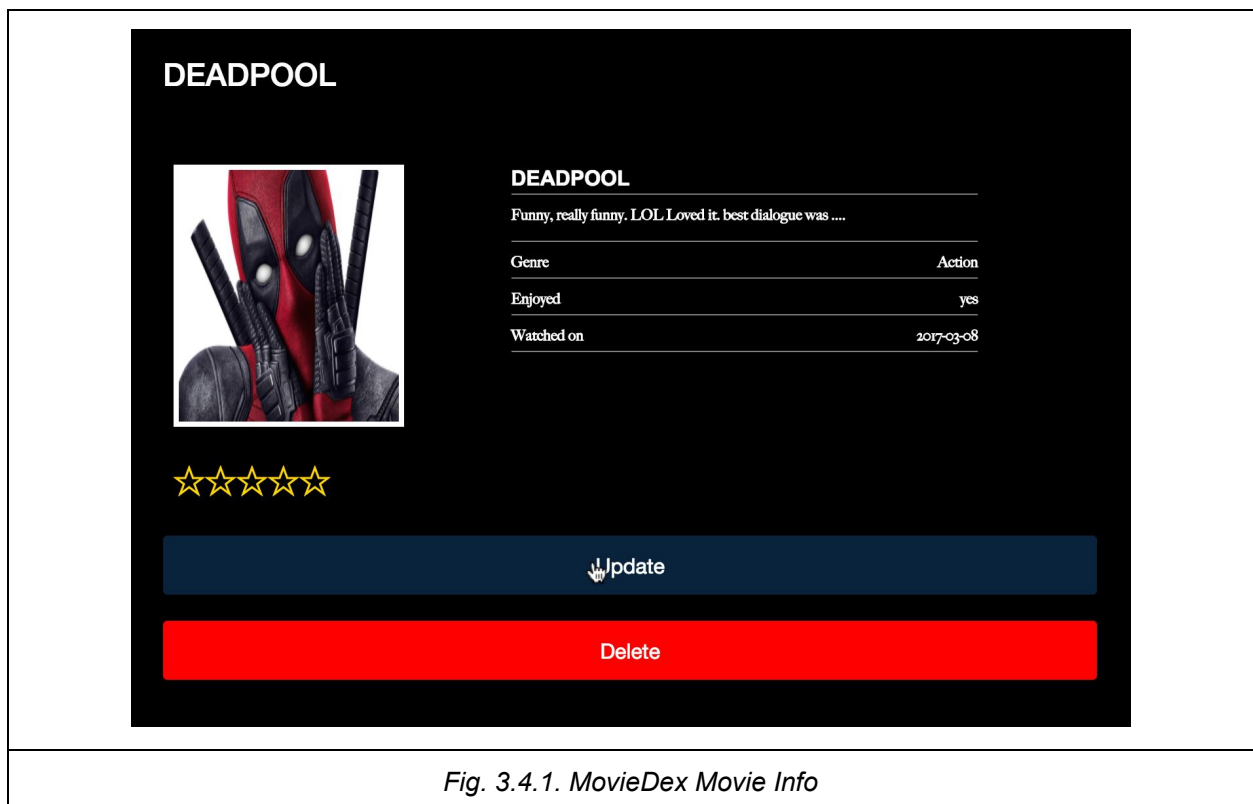
3.5. User Settings

In the upper right corner, on the navigation bar, you can see a user icon with your name displayed. Clicking on that menu will give a drop down menu, which contains Account Info and Logout options. Clicking on Account Info will navigate to your account information. Here you can view your user info along with an option to reset password.

Reset password works like any other password reset features out there. It will send a verification to the email you had initially used to sign up for MovieDex. Following the link in the email, a new password can be set, which will update the new password.
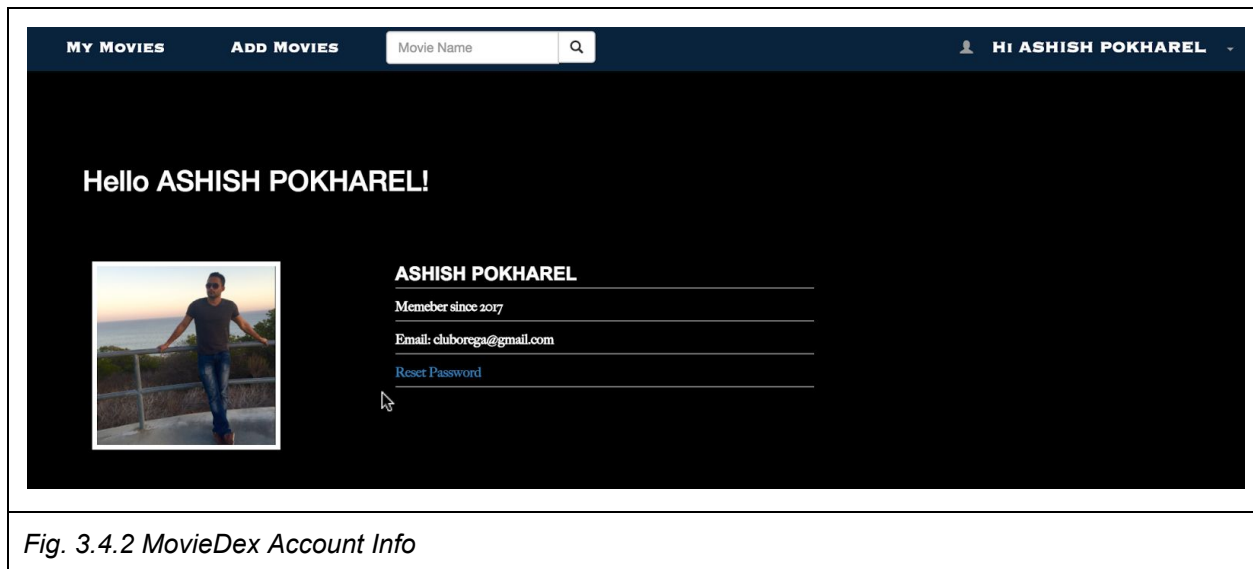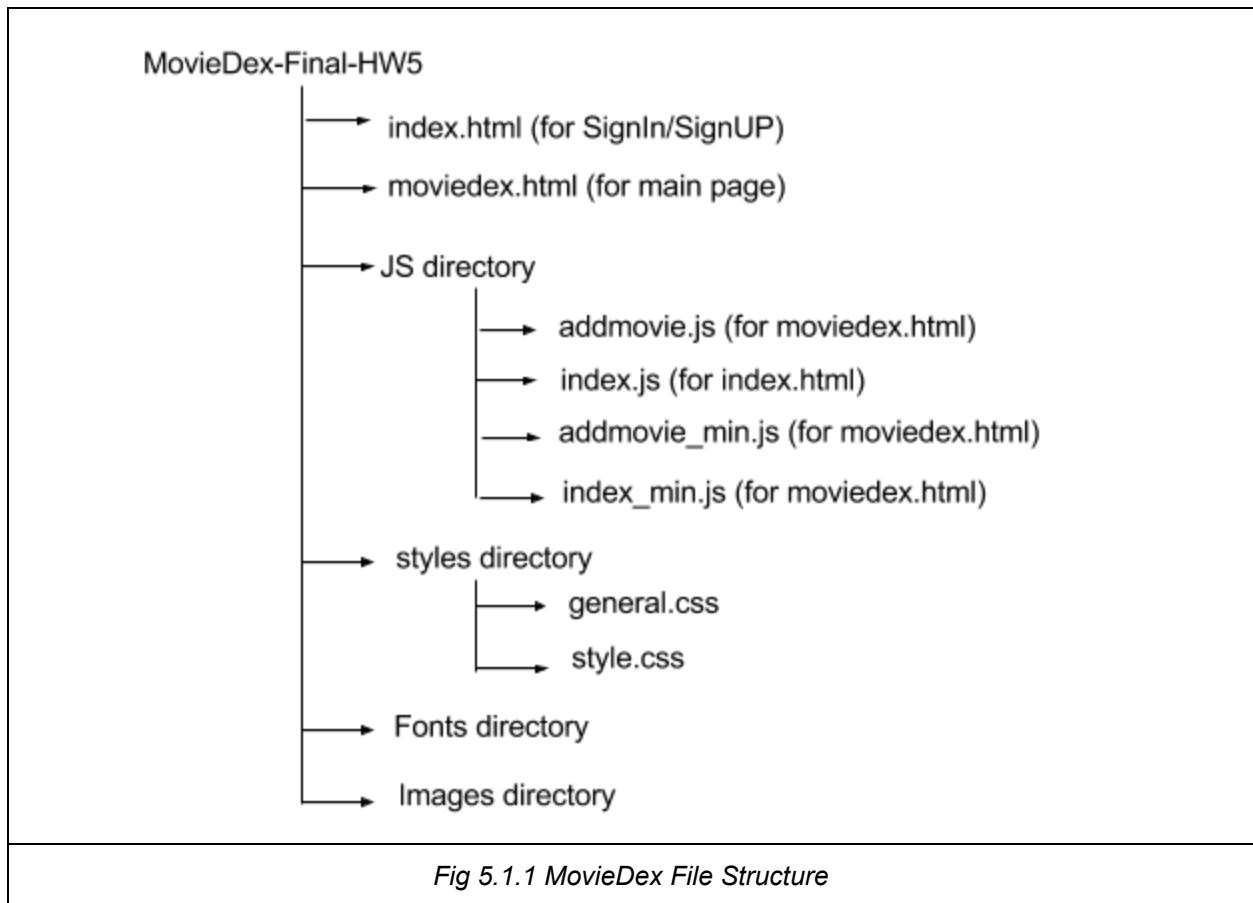

Fig. 3.4.1 User settings in the upper right corner of the website
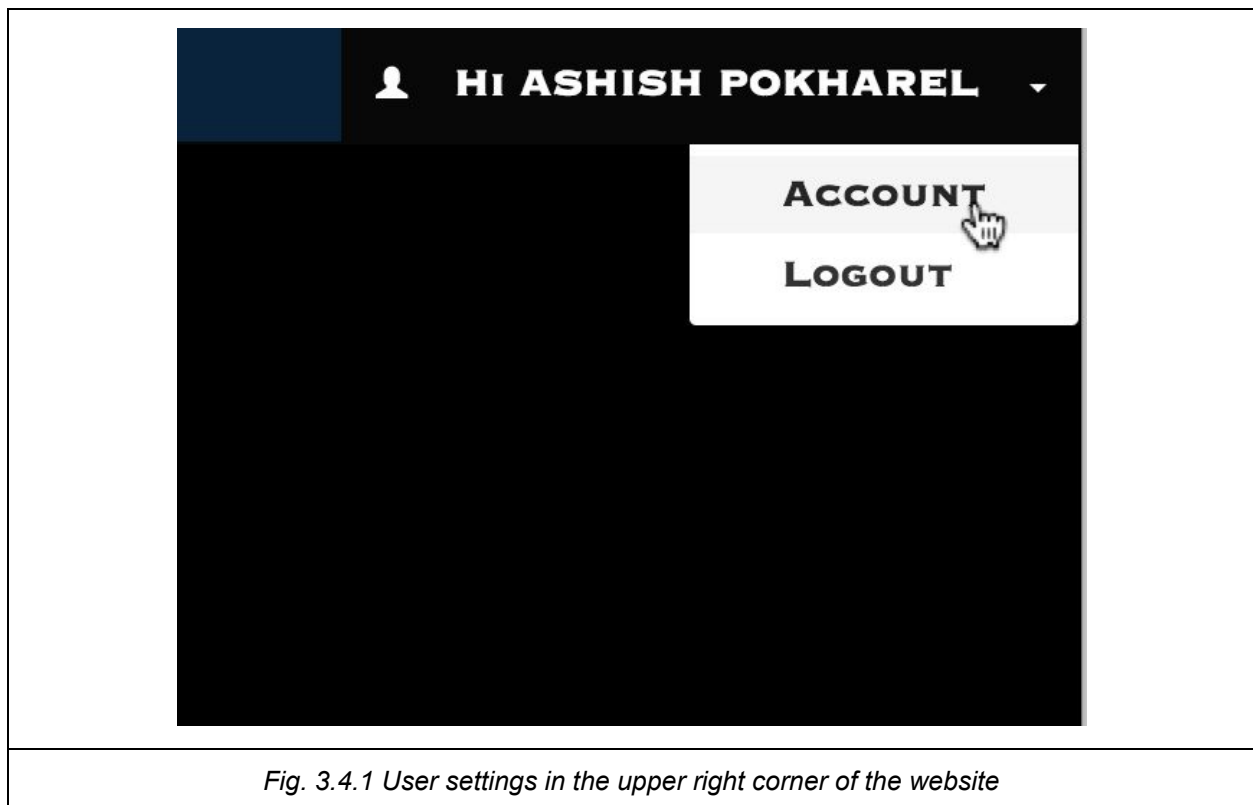
Fig. 3.4.2 MovieDex Account Info

4.1. Architecture

MovieDex is designed using HTML, vanilla CSS and vanilla Javascript. For the Menu bar, we have used Bootstrap to make it mobile friendly. We chose vanilla CSS and pure JS because we all were not that familiar with web designing and since this is our first web designing class and experience, we decided to go with simpler and base version of CSS and javascript. CSS is used to define styles for our web pages, including the design, layout and variations in display for different devices and screen sizes. MovieDex is build based on Single Page Application. MovieDex contains sign In/Sign Up in index.html which uses index.min.js and after successful sign In or Sign Up , user will be directed to MovieDex.html which is the main application page and uses addmovie.min.js javascript file. In addmovie.min.js file which is the main js file is designed based on the functionalities of our application. JS file contains functions to add movie, list all the movie, search the movie, update the movie and delete the movie. Since, it is Single Page Application, all the HTML code are changed from this js file.

5.1. File Structure


```
MovieDex-Final-HW5
        ├──────► index.html (for SignIn/SignUP)
        ├──► moviedex.html (for main page)
        ├──► JS directory
        │           ├──► addmovie.js (for moviedex.html)
        │           ├──► index.js (for index.html)
        │           ├──► addmovie_min.js (for moviedex.html)
        │           └──► index_min.js (for moviedex.html)
        ├──► styles directory
        │           ├──► general.css
        │           └──► style.css
        ├──► Fonts directory
        └──► Images directory
```

Fig 5.1.1 MovieDex File Structure

6. Performance Usage and Analysis

Testing with *Samsung galaxy S3* in regular 3G connection, the application was loaded in ***7.72 secs with 504 KB*** transferred.

Dump Content load: 3.63 secs

Load: 6.24 secs

25 requests were sent