

# Assignment

## Requirements:

1. The user signs up and sets up a password.
2. The user can login using email and password. Maximum password attempts are 4 after which the account gets locked for 30 minutes.
3. The user provides basic information about themselves such as name, age, list of favourite movies and rating out of 5 for each movie.
4. The user can search for a movie to fetch the average rating.
  - 4a. Average rating is the average of the ratings provided by users for a particular movie
  - 4b. The user might not enter the exact movie name, the search results should show all relevant movies.
5. The user can edit the rating for particular movies and the history of changes is required to be maintained.

## How to Run Project?

1. Move to root directory of project.
2. Run `npm i`. It will install all dependencies.
3. Run `npm run dev` for running project in development mode.
4. Run `npm run start` for running project in production mode.
5. Now, move to <http://localhost:5000/documentation> for understanding API where proper explanation is given.

## Tech Stack :

Node.js, MongoDB

## DB Schema:

### 1. Movie Schema : {

```
Name: string,  
avgRating:int,  
ratedCount:int,  
thumbnail: string,  
createdAt:Date,  
updatedAt:Date,  
year:int
```

}

### 2. User Schema: {

```
emailID:string,
```

```

        password:string,
        lastLoginTime:Date,
        attemptCount:int,
        Name:string,
        Age:int,
        avatar:string,
        favMovies:Object[],
        createdAt:Date,
        updatedAt:Date
    }

3.  UserMovieHistory:{
        movieID:string,
        userID:string,
        givenRating:int,
        createdAt:Date
    }

4.  GeneralConfig:{
        lockingTime:Date,
        maxAttempt:int,
        lockingUnit: string,
        updatedAt:Date,
        configName:string
    }

```

\* *Some APIs like*

- *Forget Password*
  - *Reset Password*
  - *Oauth (using Google, etc)*
  - *General Config*
  - *Users for customisation*
- could be implemented based on needs.*