Group - 52

Topic: OTT Platform like Netflix, Hotstar

Software Engineering (IT314)

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Reporting TA - Dhara (202111054)

Date: 01-04-2022

1. **Activity list (Estimate time for each activity. Mention probable dates.)**
   a. **Formulation of the Problem**
      There are many users of the website. A separate account for all the users is needed which is end-to-end encrypted. So, first of all, we need to design the authentication page.

      - **Reading relevant background information**
        - For developing the front-end part of the authentication page, we need to learn ReactJS. And for the backend part, we need to learn and know the functioning of firebase authentication

      - **Understanding and document the requirements**
        - Valid Email: The email entered by the user must be a valid email ID
        - Valid Password: The password should match the requirements set by the website.

      - **Discussions**
        - We discussed how we can manage several users to authenticate simultaneously without a system crash.
        - We discussed the criteria to be set up for creating a password such that the password created by the user cannot be hacked easily.

   b. **Designing a solution, documentation**
      - Keeping our requirements in mind, we decided to use ReactJS for implementing the front-end part of the authentication webpage and used firebase authentication API in backend.

   c. **Relevant learning**
      - We looked at other repositories on GitHub to know about how they have implemented the authentication feature.
      - We read React JS and Firebase Authentication documentation to know about the functions which need to be called in order to complete the authentication process.

   d. **Coding and unit testing**
      - Languages: HTML, javascript
      - Frameworks Used: CSS, React JS
      - Technologies used: Firebase

   e. **Documentation**

   f. **Testing**

- All the team members tested the login page with their user credentials and were successful in doing so.
- We also tested some invalid email IDs to check if the email validation functionality is working or not and we were able to test it successfully.

  g. **Reviews**
    - We took reviews from some of the batchmates and then improved upon the UI part of the authentication page.

  h. **Re-work and debugging**

2. **Project Plan: For each activity, your estimated start date, end date, and responsible person(s).**
   - **Login Page**
     - Estimated Start Date: 25th March 2022
     - Estimated End Date: 1st April 2022
     - Team Member: Dhairya Somaiya, Karan Soni, Jainil Parmar, Dhairya Rupala

   - **User Authentication**
     - Estimated Start Date: 25th March 2022
     - Estimated End Date: 1st April 2022
     - Team Member: Yash Sakaria, Fenil Kamdar, Dhariya Somaiya

   - **Home Page**
     - Estimated Start Date: 3rd April 2022
     - Estimated End Date: 8th April 2022
     - Team Member: Fenil Kamdar, Yash Sakaria, Karan Soni, Jainil Parmar, Dhairya Rupala, Dhariya Somaiya

   - **Payment Portal**
     - Estimated Start Date: 10th April 2022
     - Estimated End Date: 14th April 2022
     - Team Member:

   - **Responsive UI**
     - Estimated Start Date: 10th April 2022
     - Estimated End Date: 14th April 2022
     - Team Member:

3. **Testing Strategy:**
   a. **For each requirement, test transactions, expected results**
   b. **Test cases for the design**
   c. **Test cases & expected results for integration**

- **Module integration**
- **User Interface integration**
d. **Test data, expected results for unit testing**

For each of the above testing activities, the following should be clearly specified.

a. **Schedule**
b. **Responsible person**
c. **Placement of test cases, test data & expected results (folder/files)**