LAB 9 Assignment

IT414 Software Project Management

Group 16

Group members -

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1. List out all detailed activities for your project.

-> Planning Phase -

We planned the project details for each phase as well as came up with the implementation details. We identified the main actors and stakeholders for this project. The objectives of the project were thought of along with the activities necessary to develop the full software project.

-> Requirements gathering and Designing Phase -

In this phase, we did the Requirement analysis for the project. We brainstormed/gathered and documented the functional and non-functional requirements for the project. We looked at various materials available online and wrote several user stories for the project. We did the designing process of the project using Figma. We also designed the relational database for the project.

-> Development Phase -

We had to implement the following pages/features for the project-

1. Sign up - The user will be able to register themself on the website.
2. Sign up with Google - As an option of sign up/login the user can login on the website through Google account.
3. Login using password - Login helps the user to get logged into his/her account.
4. Create Dashboard/Profile for all registered users which would display the personal details of user and previous bookings.
5. Update Profile option - The user can update the existing profile.
6. About us page and contact page - The users get to know the details about the website and can get contact information for queries/questions.
7. Search option - To search the suitable PG as per the user. The user can filter the PG's using area and price filters.
8. Display PG details - The user can click the desired PG to see its full details.
9. Booking option - Provide with a booking button so that the user can book the PG.
10. Register a PG - A PG owner can register his/her PG online using this feature.

11. Payment method - This feature will help the user to make payment to the PG owner.

-> Testing and Deployment Phase -
After the completion of development, we can start the testing of the project.
12. Do GUI testing for the web pages.
13. Create or generate the test cases for performing the testing of various functions in the website.
14. Test the functionality using the test cases.
15. If any problems or bugs are found redo development to correct them else move to deployment.

After the testing of the website we can go through with deployment, we may release our website for the general users to book PGs for themselves.

2. Decide their dependencies

- Tasks in the Planning Phase should be done first.
- Tasks in the Requirements gathering and Designing Phase are done after full completion of the Planning Phase.
- For development phase -

1. Sign up -
   Depends on no other task.
2. Sign up with Google -
   Depends on no other task.
3. Login using password -
   Depends on - 1.Sign up / 2. Sign up with Google
4. Create Dashboard/Profile -
   Depends on - 1.Sign up / 2. Sign up with Google / 3. Login using password
5. Update Profile option -
   Depends on - 4. Create Dashboard /Profile
6. About us page and contact page -
   Depends on no other task.

7. Search option -

    Depends on - 1.Sign up / 2. Sign up with Google / 3. Login using password

8. Display PG details -

    Depends on - 7. Search option / 10. Register a PG

9. Booking option -

    Depends on - 8. Display PG details

10. Register a PG -

    Depends on - 1.Sign up / 2. Sign up with Google / 3. Login using password

11. Payment method -

    Depends on - 1.Sign up / 2. Sign up with Google / 3. Login using password /

    9. Booking option

- **For testing phase -**

12. Do GUI testing for the web pages -

    Performed only after completion of the development phase.

13. Create or generate the test cases for performing the testing of various functions in the website -

    Performed only after completion of the development phase.

14. Test the functionality using the test cases -

    Depends on - 13. Create or generate the test cases for performing the testing of various functions in the website.

15. If any problems or bugs are found redo development to correct them else move to deployment.

Depends on - 14. Test the functionality using the test cases

3. List out estimated times, estimate duration for each activity.
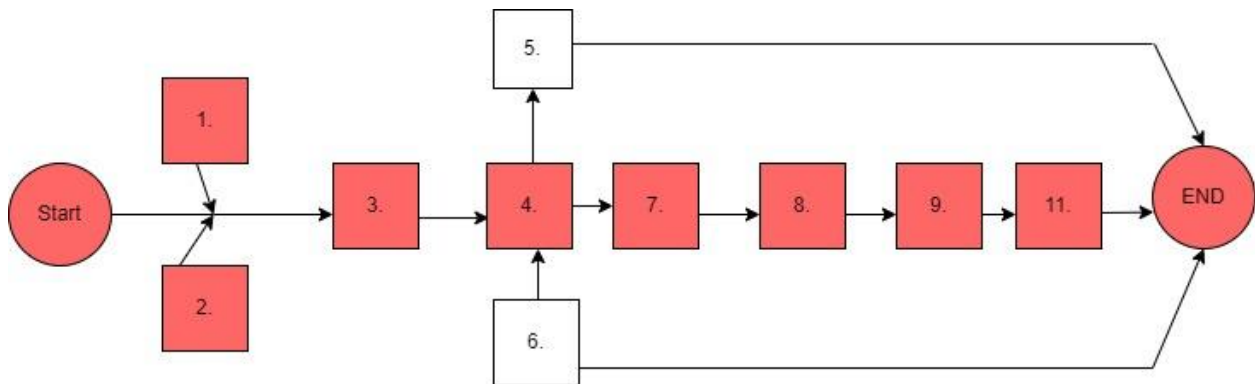
1. Sign up - 1 Day

2. Sign up with Google - 1 Day

3. Login using password - 1 Day

4. Create Dashboard/Profile - 2 Days

5. Update Profile option - 2 Days

6. About us page and contact page - 1 Day

7. Search option - 1 Day

8. Display PG details - 3 Days

9. Booking option - 2 Days

10. Register a PG - 2 Days

11. Payment method - 6 Days

- For testing phase

12. Do GUI testing for the web pages - 2 Days

13. Create or generate the test cases for performing the testing of various functions in the website - 2 Days

14. Test the functionality using the test cases - 2 Days

15. If any problems or bugs are found redo development to correct them else move to deployment - 2 Days

Note: Duration is written in 'Days' unit

4. Work out the critical path for your project.

The red colored path is the critical path.

5. Implementation done till now and GUI testing

Implementation:

- Sign-Up and Login Functionality
- DashBoard
- Search PG's
- Add/Update/Delete PG's
- Footer
- User Interface
- Response Tab

GUI Testing:

Test Case 1: Verify Sign Up- New users can create new accounts. By entering the valid information the sign up button works but if the email address is already used then the sign up button will not work.

Test case 2: Verify if the user can use his/her account to sign in into the website. By entering the valid information the user can login by clicking the sign in button.