Deliverable 1

Project Title:
Online Doctor Appointment and Consultation System

Group Name:
SoftwareEngineering5

Group Members:

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Project Description:

Online Doctor Appointment and Consultation System is a web application used by doctors, users and pharmacies. Doctors can register in this website and post their profile such as expertization, experience, address, timings, fee details etc. This web site allows the users to book an appointment for consultation online or offline for a doctor regarding their health problems. Users after selection of a doctor in the web site the system ask the consultation fee and the payment will be performed online which is transferred to the doctors account. If the consultation is online then the doctor after consultation sends medicine prescription to the user account in the website and users can directly send same prescription of medicine to the pharmacies who already registered in the website which are nearest to user and pharmacies delivers medicines to the user door steps. This project **Online Doctor Appointment and Consultation System** aims to develop an application which simplifies the work and time of doctors, users and pharmacies.

Modules in Project
The project is divided into mainly five modules.

1. **Administration**
   -Administrator is authorized person who manages data in the website. Admin verifies the profiles of doctors and activates the accounts to visible to users. He also receives feedbacks from users and doctors and updates the website time to time.

2. **Doctor**
   -This module allows doctors to register in the website and after account activation from admin he can post consultation timings, fee details etc. Doctor after discussing with the user/patient, he post prescription of medicines. Doctor can view the payment details of the day or week or month etc.

3. **User**
-User module allows the user (patient) to register in the website and provides searching of doctors of their choice and allows to book an appointment. This module allows user to pay consultation fee to doctor online and transaction will be completed on the spot. User can download the prescription send by doctor and the same can be forwarded to pharmacies to get medicine to their door steps.

4. **Pharmacy**
-In this module, a pharmacy register in this website and takes order of medicines from users and delivers the same at the users door steps.

5. **Payment**
-In this module user pays consultation fee to doctor online which is immediately transferred from user account to doctor account.

Functional Requirements

The functional requirement depicts the specific behaviour or describes high level functionalities of Online Doctor Appointment and Consultation System.

1. The system shall provide a user friendly interface for the doctors and users(patients) that Saves time by eliminating the physical consultation which involves journey and money.

2. The website allow the doctors, users and pharmacies to register with minimum data entry to use the site effectively.

3. The system shall provide feature of searching the doctor and booking an appointement online with minimum efforts for the users.

4. The users of the system should provide a feature to give rating to the doctors so that new users comes to one opinion on the doctor before consulting him.

5. The system shall provide online payment for booking an appointment in the website.

6. The system should provide auto search option which typing medicines so that doctor need not spend more time on preparing prescriptions.
7. The website should allow the user to download medicine prescription and also forward to the pharmacies to get door delivery.
8. The website also provide a facility to doctors, users and pharmacies to given feedback regarding the site in order to update the site time to time.

System Requirements

The following are the hardware and software requirement used to develop this application.

Hardware Requirements:
- Intel i7 process and above
- RAM 8 GB and above
- HD 200 GB and above

- **Software Requirements:**
- IDE : Eclipse
- Front-End: HTML, CSS, and JavaScript
- Back-End: Java with MySql
- Server: Apache tomcat
- Platform: Any compatible web browser like Google Chrome, Firefox, etc.

Initial Planning:

Our project Online Doctor Appointment and Consultation System is divided into different phases and involves planning, analysis, design, implementation, testing, and maintenance phases.

1) **Planning**
   1. Group members decide project idea.
   2. Analysing group member's skills on the project.
   3. Deciding individual plans for group members based on their skills.
   4. Selecting software tools such as language, IDE and database to develop the project.
   5. Installing software required to develop the project
   6. Preparing action plan for the project development.

2) **Analysis**
   1. Reviewing and collecting data for the project.
   2. Conducting feasibility study.
   3. Deciding and finalizing the requirement for the project.

3) **Design**
   1. Identifying the requirement components of project.
   2. Identifying the various data fields, images, documents that are required to store in the project.
   3. Designing the database model with tables and their relationships.
   4. Drawing website UI interfaces manually.
   5. Designing web pages view and access style.

4) **Implementation**
   1. Create a database in MySql dbms software for the model decided in design phase.
   2. Implementing the web pages that were drawn and design in the design phase.
   3. Establishing database connections from PHP to MySql database.
   4. Writing logical code in PHP language to implement all features that are given in functional requirements.
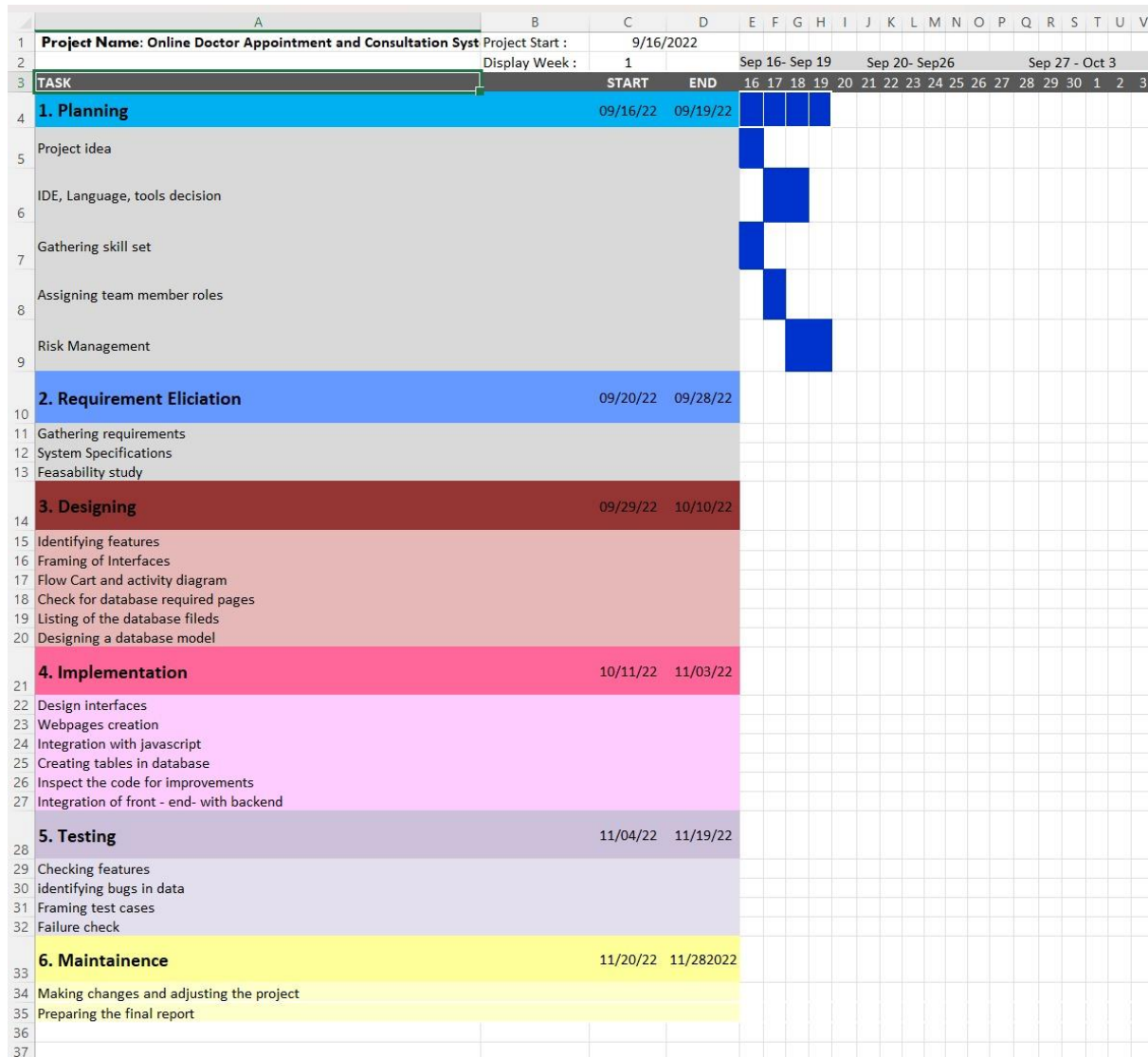   5. Final check to see if all the features are developed.

5) **Testing**

   1. Checking if the data is working for the features in the expected manner
   2. Checking database errors
   3. Writing test cases with edge and special cases and checking if features are working correctly

6) **Maintenance**
   1. Do the final changes if required.
   2. Create a final report of the project.

GANTT Chart:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	**Project Name**: Online Doctor Appointment and Consultation Syst	Project Start :	9/16/2022																			
2		Display Week :	1		Sep 16- Sep 19					Sep 20- Sep26						Sep 27 - Oct 3						
3	**TASK**		**START**	**END**	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3
4	**1. Planning**		09/16/22	09/19/22																		
5	Project idea																					
6	IDE, Language, tools decision																					
7	Gathering skill set																					
8	Assigning team member roles																					
9	Risk Management																					
10	**2. Requirement Eliciation**		09/20/22	09/28/22																		
11	Gathering requirements																					
12	System Specifications																					
13	Feasability study																					
14	**3. Designing**		09/29/22	10/10/22																		
15	Identifying features																					
16	Framing of Interfaces																					
17	Flow Cart and activity diagram																					
18	Check for database required pages																					
19	Listing of the database fileds																					
20	Designing a database model																					
21	**4. Implementation**		10/11/22	11/03/22																		
22	Design interfaces																					
23	Webpages creation																					
24	Integration with javascript																					
25	Creating tables in database																					
26	Inspect the code for improvements																					
27	Integration of front - end- with backend																					
28	**5. Testing**		11/04/22	11/19/22																		
29	Checking features																					
30	identifying bugs in data																					
31	Framing test cases																					
32	Failure check																					
33	**6. Maintainence**		11/20/22	11/282022																		
34	Making changes and adjusting the project																					
35	Preparing the final report																					
36																						
37																						

Risk Management:

The following are the risks identified in our group discussion.

1. Lacking the required skills required to perform certain tasks.

2. Developing application by group members at different timings leads to communication gap and delay in achieving the tasks.

3. Difficulties in implementing the proper database design for the application.

4. Since the project involves five modules such as Admin, Doctor, User, Pharmacy therefore integration between these modules may involve some mistakes.

5. As project will develop by group, references of the variables involved in different modules might be mistaken.

Plan on monitoring the risks:

1. Ask and Learn:
Any of the group member having issues with the programming language or functionality of a certain program working should immediately inform the group leader so that he can guide them in the way of where to look up for help.

2. Follow-ups of Schedule:
Having every day follow up about the status of each progress of all members task would result in avoiding missing deadlines.

3. Proper Communication:
Ask the team members to work on same timing so that the member can communicate about the project and can solve their issues and complete within time.

4.Cross-check the referencing:
While adding features, cross check if the correct references are being given for the task at hand. Once verify with the members before any changes are pushed

Plan on revaluation of risks:

Every week, group meeting will be conducted to discuss about the problems that rises in the project so that other members can give suggestions to solve the issues. If the problem is tough then alternate plans can be discussed.

Contingency plans:

1. Lack of Knowledge: Taking up the required courses and learning the concepts while developing the project. Can ask other team members for help if struck on a particular issue so that the others can give their inputs.

2. Deadlines not met: Making sure that if the work cannot be done in the specified time, taking help from other teammates who are available to help. The group leader can assign more members to work on a specified task to ensure it is delivered on time

2. Referencing of the variables: If there is any error found while retrieving the variable values, the changes must be made immediately and should be conveyed to the members so that necessary changes at other places can be done. Thorough testing should be done to minimize these errors to as little as we can.

Team Members Roles:

- ➢ Sreeja Reddy
- ➢ Design of UI, Middle layer integration from backend to frontend and frontend to backend.

- ➢ Anirudh Reddy Gade
- ➢ Design of UI, Backend Integration and E-R diagrams.

- ➢ Vaishnavi Gawni
- ➢ Design of UI, Backend and Frontend, Scheduling meetings, PPT, Gantt Chart.

- ➢ Sai Vamsi Krishna Kadiyala
- ➢ Implementing UI Design, PPT, Creating Database table and Writing test files.

- ➢ Mukunda Priya
- ➢ Gathering required resources, Design of UI, UML diagrams creation.

- ➢ Vagdevi Gudapati
- ➢ Design of UI, Backend Integration, Documentation and PPT.

- ➢ Meghana Pentyala
- ➢ UI design, requirement specification, Testing, Documentation and UML diagrams.

- ➢ Manvitha Chowdary Bandi
- ➢ Testing, UML diagrams creation and Writing test files, Backend

TEAM MEMBERS CONTRIBUTION

S.NO	NAME	CONTRIBUTION
1	Manvitha Chowdary Bandi	Project Description, Video
2	Meghana Pentyala	Project Planning, Member Contribution
3	Anirudh Reddy Gade	Meeting Minutes, Risk Planning
4	Vagdevi Gudapati	Power Point Presentation, Risk Management
5	Sreeja Reddy Chilligireddy	Ghant Chart, Meeting Minutes
6	Mukunda Priya Rachamalla	Power Point Presentation, Video
7	Sai Vamsi Krishna Kadiyala	Risk Planning, Ghant Chart
8	Vaishnavi Gawni	Video, Documentation