

Department of Technical Education
Capstone project
Format- 1
Capstone project Scope Document

Capstone project Title: Disease Prediction & Doctor Recommendations

Capstone project Members: Palak Jain	[339CS20014]
Puneet Pammanavar	[339CS20019]
Shivtej Ghorpade	[339CS20024]
Shreyas Kumbar	[339CS20025]

Problem Statement:

1. There is no physical check-up: Prior to making an appointment with the doctor for a physical examination, there won't be any medical testing.
2. No Face-to-Face interaction to discuss about the symptoms or Disease.

Objectives:

1. User will get disease information any time.
2. Reduce the time of user.
3. User will get Doctor recommendations easily.
4. User will get disease information anywhere.

Capstone project description:

This project's goal is to establish an online disease prediction and recommendation platform. In this project, doctors must register themselves before customers may visit this portal, where the system predicts the disease and recommends available doctors based on their symptoms. The user will be able to locate the finest doctor for his situation. We will use full stack development languages such as HTML, CSS, PHP, JavaScript, Bootstrap, and MySQL DB to complete this project.

Capstone project Deliverables:

❖ Admin Modules

1. Admin Login: Using user name and password admin can login to this project.
2. Manage Symptoms & Diseases: Admin will manage the symptoms & Disease
3. Manage Doctor: Admin will recommend the doctors based on users' Disease.

❖ Doctor Modules

1. Doctor Login: Using username & Password Doctor will Login to this System.
2. View Appointments: The appointments that are scheduled for the day will be visible to the doctor.

❖ User Modules

1. Check Symptoms & Disease: In this module user can view the Disease.
2. Predict Disease: In this module user can be able to predict Disease.
3. View Doctors: In this module user can view the Doctors based on their Disease.
4. Book Appointment: This module will allow users to schedule appointments with the doctors of their choice.

Key milestones:

❖ Admin Modules

1. Admin Login
2. Manage symptoms & diseases
3. Manage Doctor

❖ Doctor Modules

1. Doctor Login
2. View Appointments

❖ User Modules

1. Check Symptoms & disease
2. Predict Disease
3. View Doctors
4. Book Appointment

Constraints:

The diseases that will emerge will be unpredictable in our system.

Estimated Capstone project Duration: The Working Hours this project has taken are 473hrs.

Estimated Capstone project cost: The total estimated cost of this project ₹48,609/-

Date

Signature of the student

Signature of the cohort owner

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Work Breakdown Structure

Capstone project Name: Disease Prediction & Doctors Recommendations

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Capstone project Objective(s):

1. User will get disease information any time.
2. Reduce the time of user.
3. User will get Doctor recommendations easily.
4. User will get disease information anywhere.

Work Breakdown Structure – Deliverables

➤ In this project there are three main modules Admin, User & Doctor.

❖ Admin Modules

- Admin Login: Using user name and password admin can login to this project.
- Manage symptoms & Diseases: Admin will manage the symptoms & Disease
- Manage Doctor: Admin will recommend the doctors based on users' Disease.

❖ Doctor Modules

- Doctor Login: Using username & Password Doctor will Login to this System.
- View Appointments: The appointments that are scheduled for the day will be visible to the doctor.

❖ User Modules

- Check Symptoms & Disease: In this module user can view the Disease.
- Predict Disease: In this module user can be able to predict Disease.
- View Doctors: In this module user can view the Doctors based on their Disease.
- Book appointment: This module will allow users to schedule appointments with the doctors of their choice.

Activities & Task

1. Admin login (30hrs)

- Create an admin login page with html, CSS, and Bootstrap.
- Admin should login according to the parameters given for the validation.
- Admin must login with the correct details according to the details for easy access.

2. Manage symptoms & Diseases (36hrs)

- To create form to add Symptoms & Disease.
- Diseases must be added according to their Symptoms.
- New symptoms won't manifest themselves.

3. Manage Doctor (56hrs)

- To create form to add Doctors.
- When supervising doctors, it's important to classify the doctors according to their specialties.

4. Doctor Login (46hrs)

- To create a Login form for doctors to register them in.
- Doctor must login with correct details for easy access.

5. View Appointments (44hrs)

- The doctors will be able to view the appointments in this Module.
- While making an appointment If the database is not properly connected, the appointments won't appear in the view appointments.

6. Check Symptoms & disease (35hrs)

- To create form to Check Symptoms and Disease.
- While testing the diseases the, symptoms must be put correctly.
- While gathering the document the symptoms must match that disease

7. Predict Disease (58hrs)

- To predict the diseases based on the Symptoms.
- While predicting the disease symptoms must be correctly listed out.

8. View Doctors (42hrs)

- Based on the disease or Symptoms, the doctor is recommended.
- Doctor must be recommended according to the user's symptoms & diseases.

9. Book appointment (46hrs)

- This module will allow users to schedule appointments with the doctors of their choice.
- While booking Appointment the Patient/user must give correct details.

Date

Signature of the Student

Signature of the cohort Owner

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Timeline Schedule

Capstone project Name: Disease Prediction & Doctors Recommendations

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	Shivtej Ghorpade	[339CS20024]
	Shreyas Kumbar	[339CS20025]

➤ **Activities & Task**

❖ **Admin Login (30hrs)**

- Task1: Create an admin login page with html, CSS, and Bootstrap.
- Task2: Admin should login according to the parameters given for the validation.
- Task3: Admin must login with the correct details according to the details for easy access.
 - Collect requirement gathering and requirement analysis to create admin login page.
 - Design Form: Create an executive login form.
 - Form validation: Use JavaScript to validate the admin password form.
 - Database link: Create a database link with PHP and MySQL.
 - Testing Form: To try the admin login form for validation and database connection.
- ✓ This whole task is done by Palak Jain.

❖ **Manage Symptoms & Disease (36hrs)**

- Task1: To create form to add Symptoms & Disease.
- Task2: Diseases must be added according to their Symptoms.
- Task3: New symptoms won't manifest themselves.
 - Collect requirement gathering and requirement analysis to create Manage Symptoms & Disease page.
 - Design Form: Create a form to collect all the symptoms associated with the various illnesses.
 - Form validation will be done based on the individuals' symptoms and illnesses.
 - Database Connection: PHP & MySQL will then be linked to this form.
 - Testing Form: To verify validation and the database connection as well as try the additional symptoms and disease.
- ✓ This whole task is done by Shreyas Kumbar

❖ Check Symptoms and Disease (35hrs)

- Task1: To create form to Check Symptoms and Disease.
- Task2: While testing the diseases the, symptoms must be put correctly.
- Task3: While gathering the document the symptoms must match that disease.
 - Collect requirement gathering and requirement analysis to check Symptoms & Disease
 - Design Form: Create a form to check all the symptoms associated with the various disease.
 - Form validation will be done based on the individuals' symptoms and disease.
 - Database Connection: PHP & MySQL will then be linked to this form.
 - Testing Form: To verify validation and the database connection as well as try the additional symptoms and disease.
- ✓ This whole task is Handled by Palak Jain

❖ Predict Disease (58hrs)

- Task1: To predict the diseases based on the Symptoms.
- Task2: While predicting the disease symptoms must be correctly listed out.
 - Collect requirement gathering and requirement analysis to Predict Disease.
 - Design Form: To design the form based on Symptoms & diseases.
 - Form validation: Use JavaScript to validate the Symptoms & Disease.
 - Database Connection: PHP & MySQL will then be linked to this form.
 - Testing Form: To try the predict Symptoms & diseases form for validation and database connection.
- ✓ This whole task is Handled by Puneeth. P

❖ Manage Doctors (56hrs)

- Task1: To create form to add Doctors.
- Task2: When supervising doctors, it's important to classify the doctors according to their specialties.
 - Collect requirement gathering and requirement analysis to Manage Doctors
 - Design Form: Create an executive login form.
 - Form validation: Use JavaScript to validate the admin password form.
 - Database Connection: PHP & MySQL will then be linked to this form.
 - Testing Form: To try the admin login form for validation and database connection.
- ✓ This whole task is Handled by Puneeth. P

❖ Doctor Login (46hrs)

- Task1: To create a Login form for doctors to register them in.
- Task2: Doctor must login with correct details for easy access.
 - Collect requirement gathering and requirement analysis to create Doctor Login Page.

- Design Form: create an executive Doctor Login form.
- Form validation: Use JavaScript to validate the Doctor Login password form.
- Database link: Create a database link with PHP and MySQL.
- Testing Form: To try the Doctor login form for validation and database connection.
- ✓ This whole task is handled by Shivtej. Ghorpade

❖ View Doctors (42hrs)

- Task1: Based on the disease or Symptoms, the doctor is recommended.
- Task2: Doctor must be recommended according to the user's symptoms & diseases.
 - Database link: Create a database link with PHP and MySQL.
 - Testing Form: To try the admin login form for validation and database connection.
- ✓ This whole task is handled by Shreyas. Kumbar

❖ Book Appointment (46hrs)

- Task1: This module will allow users to schedule appointments with the doctors of their choice.
- Task2: While booking Appointment the Patient/user must give correct details.
 - Collect requirement gathering and requirement analysis to create Book Appointment Page.
 - Design Form: create a form for users to book appointment.
 - Form validation: Use JavaScript to validate the Book Appointment form.
 - Database link: Create a database link with PHP and MySQL.
 - Testing Form: To try the Book Appointment form for validation and database connection
- ✓ This whole task is handled by Palak Jain

❖ View Appointment (44hrs)

- Task1: The doctors will be able to view the appointments in this Module.
- Task2: While making an appointment If the database is not properly connected, the appointments won't appear in the view appointments.
 - Collect requirement gathering and requirement analysis to View Appointments.
 - Design Form: create a form for doctors to view appointment.
 - Form validation: Use JavaScript to validate the View Appointment form.
 - Database link: Create a database link with PHP and MySQL.
 - Testing Form: To try the View Appointment form for validation and database connection
- ✓ This whole task is handled by Shivtej Ghorpade

Date

Signature of the student

Signature of the cohort owner

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Cost Break-Down Structure

Capstone project Name: Disease Prediction & Doctor Recommendations

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	Shreyas Kumbar	[339CS20025]

1. Analyse your Work Breakdown Structure

- ❖ Admin Modules
 - Admin Login
 - Manage symptoms & diseases
 - Manage Doctor
- ❖ User Modules
 - Check Symptoms & disease
 - Predict Disease
 - View Doctors
 - Book Appointment
- ❖ Doctor Modules
 - Doctor Login
 - View Appointment

2.Estimate the labour cost of work: -

Module Name	Task Name and Their working hours	Total Working Hours	Salary Paid (in hrs)	Total Salary (in ₹)
Admin Login	<ul style="list-style-type: none"> • Task1: Create an admin login page using HTML, CSS and Bootstrap. (12hrs) • Task2: Admin should log in according to validation parameters. (10hrs) • Task3: Admin must login with correct details for easy access. (8hrs) 	30 hrs	30*70	2100
Manage Symptoms &Diseases	<ul style="list-style-type: none"> • Task1: Create a form to add symptoms and diseases. (12hrs) • Task2: Diseases must be added based on their symptoms. (11hrs) • Task3: New symptoms will not appear due to a lack of symptoms. (13hrs) 	36 hrs	36*70	2520
Check Symptoms &Diseases	<ul style="list-style-type: none"> • Task1: Create a form to check symptoms and diseases. (10hrs) • Task2: Symptoms must be correctly identified when testing diseases. (11hrs) • Task3: Symptoms must match the disease to be included in the document. (14hrs) 	35 hrs	35*70	2450
Predict Diseases	<ul style="list-style-type: none"> • Task1: Predicting diseases based on symptoms is essential. (27hrs) • Task2: The most important idea is to accurately identify the symptoms of a disease. (31hrs) 	58 hrs	58*70	4060

Manage Doctor	<ul style="list-style-type: none"> • Task1: To create form to add Doctors. (24hrs) • Task2: When supervising doctors, it's important to classify the doctors according to their specialties. (32hrs) 	56 hrs	56*70	3920
Doctor Login	<ul style="list-style-type: none"> • Task1: To create a Login form for doctors to register them in. (23hrs) • Task2: Doctor must login with correct details for easy access. (23hrs) 	46 hrs	46*70	3220
View Doctor	<ul style="list-style-type: none"> • Task1: Based on the disease or Symptoms, the doctor is recommended. (20hrs) • Task2: Doctor must be recommended according to the user's symptoms & diseases. (22hrs) 	42 hrs	42*70	2940
Book Appointment	<ul style="list-style-type: none"> • Task1: This module will allow users to schedule appointments with the doctors of their choice. (24hrs) • Task2: While booking Appointment the Patient/user must give correct details. (22hrs) 	46 hrs	46*70	3220
View Appointment	<ul style="list-style-type: none"> • Task1: The doctors will be able to view the appointments in this Module. (20hrs) • Task2: Database connection issue prevents appointments from appearing in appointment view. (24hrs) 	44 hrs	44*70	3080

3. Estimate the cost of materials:

- Cloud Server Cost: ₹5000/-
- PHP Designer: \$42 (Approx ₹3444/-)
- XAMPP Server is open-source software.

4.Overhead Cost:

If a live server is going to cost more, we will let you know.

5.Build Contingency into your CBS:

We must complete the job in accordance with the projected cost.

6.Final-Check:

Estimated Cost:	₹48,609/-
Labour Cost:	₹27,510/-
Material Cost:	₹8,444/-
Profit of the Project: ₹12655/-	

Date

Signature of the Student

Signature of the cohort Owner