

# Project Title: weCare

## Project Management Document

**Theme:** Healthcare management system

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**Group Number:** 46

**Group members:**

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### **About Project:**

weCare health management system is a hospital web-application which features patient and doctor portal, booking lab test, scheduling an appointment with doctors, doctor profile, patient's health profile, various health-departments, and machinery information for surgeries and critical care, Career portal with department wise job openings.

### 1) Tentative Dates and assigned members:

Activities	Start Date	End Date	Responsible Person
a) Formulation of the problem	28-02-2022	21-03-2022	Yash, Varun, Shubham, Nilay, Aditya, Purav
a.1) Reading relevant background information	28-02-2022	09-03-2022	Yash, Varun
a.2) Understanding and documenting the requirements	11-03-2022	18-03-2022	Shubham, Purav
a.3) Discussions	19-03-2022	20-03-2022	Aditya, Nilay
b) Designing a solution, documentation	21-03-2022	27-03-2022	Varun, Purav, Yash, Shubham
c) Relevant learning	21-03-2022	27-03-2022	Purav, Aditya
d) Coding and unit testing	28-03-2022	25-04-2022	Yash, Varun, Shubham, Nilay, Aditya, Purav
e) Documentation	20-04-2022	22-04-2022	Shubham, Aditya, Nilay
f) Testing	26-04-2022	28-04-2022	Purav, Shubham
g) Reviews	26-04-2022	28-04-2022	Nilay, Aditya
h) Re-work and debugging	29-04-2022	02-05-2022	Yash, Varun

### 2) Test cases

- Login/Sign-up
  - If the user is not registered, then ask the user to sign up.
  - If the user provides valid credentials, then take the user to the patient/doctor/chemist portal.
  - If the user forgets a password, then the user can reset the password.
- Patient/Doctor Portal
  - Department-wise doctor's list should be accurate.
  - Each doctor should be part of at least one department.
  - When a patient is booking an appointment, only the available doctor's list should be displayed.

- Test if the booked appointment is reaching the doctor's portal.
- If doctors cancel the appointment with the patient then check whether later is notified or not.
- Check whether the doctor's appointment calendar is updated or not.
- The emergency contacts should be tested every now and then to whether they are up or not.
- Test whether the graphs(blood pressure, pulse, etc) are precise or not.
- Pharmacy page
  - Check that prescribed medicines are always available in inventory.
  - Pharmacy inventory should be consistent; test that medicines are all above expiry dates.
  - Test that the medicines whose stock is below the threshold value are added to the order item list before the stocks go out.
- Site design test cases
  - Site should be always up and responsive.
  - The site should be capable of handling at least a thousand users at a time.
  - The site should be compatible with every browser and mobile, tablet, and other devices.

### 3) Testing Schedule

Test Case	Tentative date	Responsible Person(s)
Registration portal	08-04-2022	Varun, Yash, Nilay
Profile testing	12-04-2022	Aditya, Purav, Shubham
Appointment and Scheduling	17-04-2022	Nilay, Shubham
Graph testing	20-04-2022	Aditya, Purav
Inventory testing	25-04-2022	Purav, Aditya, Nilay
Site design testing	29-04-2022	Yash, Varun

### 4) Special Activities and Standards

#### 1. Requirement prioritizing through MoSCoW technique

We followed MoSCoW prioritization technique to reach a common understanding of the importance of all the different requirements.

Mo: Must-Have

Non-negotiable needs that are mandatory to implement

S: Should Have

Needs that are important but not critical for the release  
Co: Could have  
Needs that are desirable but not mandatory for the release  
W: Will Not Have  
Needs that can be ignored and can be considered for future releases

## **2. Sprint Estimation**

Cost and completion time play important roles in many estimation approaches in which the bigger the number attributed to a user narrative, the more it costs and/or takes. The sprints are estimated based on the time required to finish the user story and the number of developers working on it. Taiga was used as an agile development methodology tool.

## **3. Visual Paradigm Tool**

Class diagram of the project was generated through the visual paradigm tool which offers facilities to add abstraction, collaboration, and usage. Various structural, behavioral, and use case diagrams were generated with the help of this tool.

## **4. PowerDesigner Tool for DFD Modelling**

PowerDesigner is a tool for creating business-process models, and conceptual, logical, and physical data models for database design, including relational and dimensional models. The Context diagram and level 0,1,2 DFD were generated using this tool.