

Dr.Catalyst EHR (WebIMS)

A PROJECT REPORT

Submitted by

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In fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

COMPUTER ENGINEERING

**VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE
CHANDKHEDA**



Gujarat Technological University, Ahmedabad

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VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE

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CERTIFICATE

This is to certify that the internship report submitted along with the project entitled **Dr.Catalyst EHR (WebIMS)** has been carried out by **Priyansh Savani** under my guidance in partial fulfillment of the degree of Bachelor of Engineering in Computer Engineering, 8th Semester of Gujarat Technological University, Ahmedabad during the academic year 2022-2023.

Prof. Nirav B. Suthar
Internal Guide

Prof. Mansukh T Savaliya
Head of Department



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Improving the Business and Delivery of Healthcare

Date: 21 April 2023

To Whomsoever It May Concern

This is to certify that Priyansh Savani is an intern in our organization since January 23, 2023 until present. He has worked on the "WebIMS" project during his internship period in the organization.

During this period we found him punctual, hardworking and inquisitive.

This letter is issued on employee's request and the company is not responsible for any current or future liabilities.

For Meditab Software (India) Pvt. Ltd.

Chaitra Shetty

Human Resources



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DECLARATION

We hereby declare that the Internship report submitted along with the Project entitled **Dr.Catalyst EHR (WebIMS)** in partial fulfillment for the degree of Bachelor of Engineering in Computer Engineering to Gujarat Technological University, Ahmedabad, is a bonafide record of original project work carried out by me at Vishwakarma Government Engineering College under the supervision of Prof. Nirav B Suthar and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the Student

Priyansh S Savani

Sign of Student

Acknowledgement

We, the developers of **Dr.Catalyst EHR (WebIMS)**, with immense pleasure and commitment would like to present the project assignment. The development of this project has given me so many opportunities to think, explore and get to know about the Web Development domain.

Every work that one completes successfully stands on the constant encouragement, good will and support of the people around. We hereby avail this opportunity to express our gratitude to number of people who extended their valuable time, full support and cooperation in developing the project.

We express deep sense of gratitude towards our Head of the IT Department, **Prof. Mansukh T Savaliya** and project guides **Prof. Nirav B. Suthar** (internal guide) and **Mr. Manish Lakhara** (external guide) for the support during the whole session of study and development. It is because of them, that we were prompted to do hard work, adopting new technologies.

Furthermore, we are grateful to all the people who kept supporting me and provided a positive environment to work with. Last but not least, we would like to thank my family members who provide me enormous support during this work directly and indirectly. We would like to thank my friends and colleagues who have been a source of inspiration and motivation that helped me during internship period.

Abstract

An internship is the best way to gain valuable hands-on experience in real-life working environment. A student can practice and improve their industry skills while also learning how to work during an internship.

Students can gain a better understanding of how what they learn in school will benefit them in the future. An internship can be a great boost to a student's confidence. Being successful in the real world can motivate students to work harder in school and to be more willing to take on challenges or to step outside of their comfort zone.

During the period of an internship at Meditab software Inc., I was able to learn a lot many new things, technologies, and other professional skills. Angular is one of the best platform in the Front End Development. Being an inquisitive student, I wanted to learn something out of the box. In the learning phase of an internship, I learned the basics of different technologies which are being used to develop front end applications. In that phase, I learned JavaScript, TypeScript, Angular, Rxjs etc.

Once the training was finished, I was introduced to the live project of the company which is a EHR software, Electronic Health Record. I was given time to go through the project and was assigned security rights and functional bugs accordingly. I established a professional culture that will definitely help me in future for making well-informed career decisions.

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Abbreviations

EHR	Electronic Health Record
EMO	Electronic Medical Office
JS	JavaScript
TS	TypeScript
HTML	Hyper Text Markup Language
CSS	Cascading Style Sheet
API	Application Programming Interface
SPA	Single Page Application
RCA	Root Cause Analysis
AJAX	Asynchronous JavaScript and XML
HIPAA	Health Insurance Portability and Accountability Act

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1. Overview of the Company

1.1 History

The Patel family founded Meditab in 1998 after experiencing first-hand the frustrations of having an inadequate EHR. Fed up with the tedious software that they were using in their family-owned pharmacy, they were determined to create a system and a company that works with providers, instead of getting in the way.

Soon, IMS was born. By 2003 launched IPS, as well, expanding of tware to pharmacies.

Since then, thanks to the simple desire to make providers' lives easier, Meditab has grown to offer software for more than 40 different medical specialties and has become a pioneer in clinic software.

1.2 Work Done

During the past two decades, MEDITAB have built innovative, specialty-specific software such as AllergyEHR, FertilityEHR, Ophthalmology EHR, CosmetiSuite, and more. They developed solutions that address all aspects of healthcare, from mobile functionality and telemedicine, to an all-new suite of office management tools integrated with your EHR, the electronic Medical Office(EMO).

Healthcare is always changing. That's why customization and adaptability are at the core of IMS. And for more than 20 years, Meditab has always been at the forefront of change and innovation.

1.3 Solutions Provided HER

Our all-in-one multi-specialty EHR, Practice Management and Billing software solution allows doctors to deliver the highest quality of care possible to their patients. Streamline your practice's workflows, optimize financial performance, and coordinate quality care faster with IMS.

Our all-in-one multi-specialty EHR, Practice Management and Billing software solution allows doctors to deliver the highest quality of care possible to their patients. Streamline your practice's workflows, optimize financial performance, and coordinate quality care faster with IMS.

EMO

EMO stands for Electronic Medical Office. It's an entire suite of office management tools integrated with IMS and designed to optimize the medical office. Composed of several practical, time-saving modules, EMO transforms your traditional and manual processes into a digital workflow.

1.4 Departments at work

The different departments who work together to achieve a common goal:

- Human and Resources
- Accounts
- Admin
- Sales and Marketing
- IMS Developer and Quality Analyst
- WebIMS Developer and Quality Analyst
- Cyber Security
- IT Services
- AndroidIMS and Quality Analyst
- Internal PHP

1.5 Goals and Achievements

- ISO9001:2015 certified company
- BlackBook 2022 Named Allergy HER the #1 HER for Allergy & Immunology
- Drummond Group 2015 Ed Complete HER Certification.
- Intelligent Medical Software Named Gold Health IT Quality Solution by Quest Diagnostics.

1.6 Size of the Company

Meditab Software is a growing company, with around 800 employees and more.

Company has three locations situated at

- 219/A, Kalasagar Mall, Sattadhar Cross Road Ghatlodiya, near Sai Baba Temple,

Ahmedabad,Gujarat380061

- 8795Folsum,Sacramento,CA
- Skyrise4,Sebucity,Phillipine

2. Introduction to Internship

2.1 Internship Overview

This report is a detailed overview of my internship journey at Meditab Software Inc. During my Internship, I have learned a lot about corporate environment, communication skills and different languages like HTML, CSS, JS, TS and Angular framework.

I have learned to work in a corporate space which not only enriched me professionally but also helped me grow personally as well. As I have had a great opportunity to practically see how software development is done in real life. Moreover, I have tried my level best to make this report meaningful by reflecting my work at the Meditab Software Inc. Also, I have summarized my overall experience, with my learning and challenges faced as an intern.

2.2 Purpose

Being a knowledge seeker, I wanted to gain some experience on how our learning from college can be implemented in a real live problem. As the time is passing, Web Development's popularity is increasing day by day. They are the best alternative to any Operating system based software as it needs installing many dependencies for the end user. This internship has given me a platform to achieve it and helped me in applying technical knowledge in a live project.

2.3 Objective

The main objective of this internship was to develop myself in the area of Front End Web Development. Also I wanted to know what are the different ways and technologies that are applied and used in real life scenarios. Also how a corporate runs and how many departments combine together to achieve a common goal. Another reason was to develop myself in the area of communication.

Overall, this was a great experience to be in and has helped me develop many of my professional and personal set of skills.

2.4 Technology Overview

2.4.1 JavaScript

JavaScript is a scripting language used mostly to make websites interactive. While HTML and CSS are used to provide the blueprint and structure, JS provides dynamic behavior to the site. It is a client side scripting language and not generally used to script servers.

There is a different framework of JS called NodeJS which can be used to script server side machines.

The JS mainly is divided into two parts - synchronous and asynchronous JS. The synchronous JS deals with regular stuff where more than one operations are not to be performed at a time. To say in real world example, it does not deal with fetching data from servers. It can lead to serious delay if we wait for data to come from server and then do other operations.

That is why asynchronous JS came into picture. The basic idea behind async JS is that there are WebAPI offered by our browser, so despite of JS being a single threaded language, when such requests of data are to be handled, we tell those API offered by browser to handle such things and JS compiler can deal with other things while waiting for the data. This is a huge advancement as no one will want to wait for such a time as it is not sure when or even if the data will be delivered.

Look at fig 2.1 for JS event loop and how it is usually handled by API provided by browser.

Browser has two things basically - Call stack and API. Event loop is kind of like a timer or interval where at the end of each loop, async tasks and event tasks are checked.

API provided by the browser keeps track of all the sync process. When a async code or event is encountered, it is sent into API. By doing this the js lint is not always busy. So when the API is done with finishing the async task, it waits for the next event loop and then renders it into the DOM. Call Stack is just a stack which keeps track of all the current executing functions or procedures.

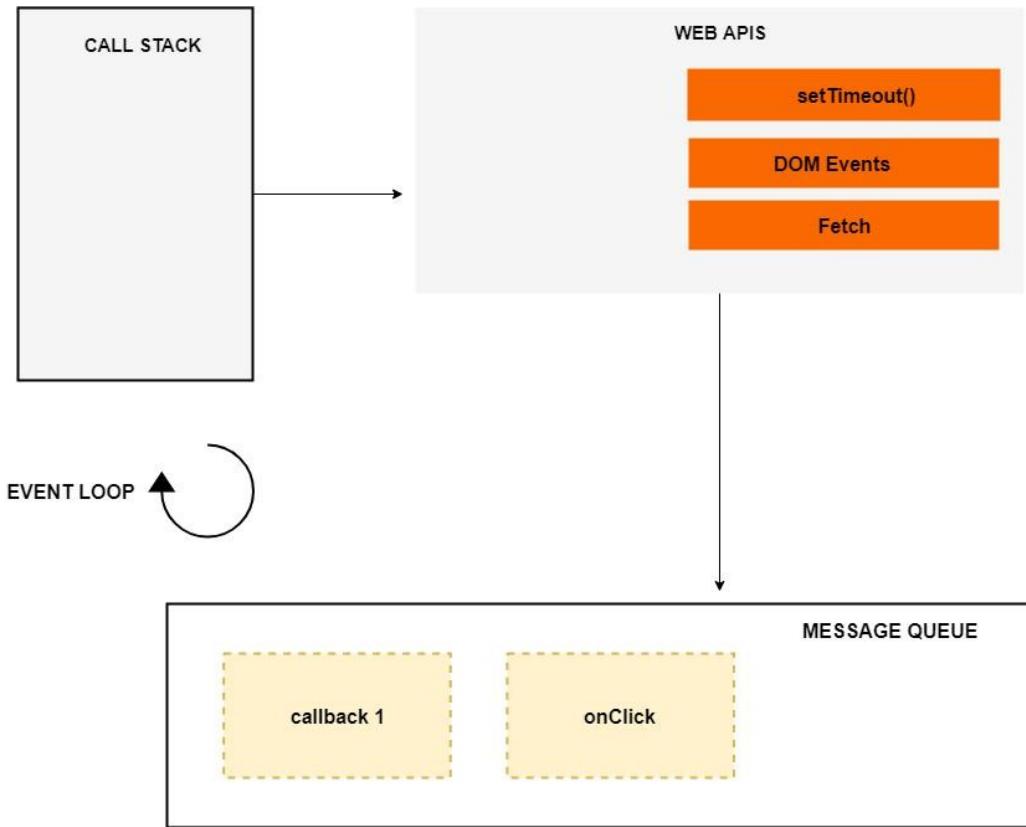


Fig-2.1 JSEvent Loop

2.4.2 TypeScript

TypeScript is just like a big brother to JS. It is a superscript of JS. It adds an additional syntax to JS which then helps in tighter integration with the editor. It also helps you in catching errors early. TS is always converted into JS before browser. Browser only deals with JS file, so TS lint will convert code into JS before browser can handle it. TS also adds type referencing to JS which is a huge advantage.

TS is used in Angular framework, as it is more reliable. Usually Angular apps are too large, so using TS makes it easier to debug and keep track of all the types.

It is developed and maintained by Microsoft, which is a strict syntactical superscript of JS. It is only designed for development of large applications.

2.1.1 Angular Framework

Angular is a FE, Single Page Application (SPA) Framework developed and maintained by Google.

First Angular was based on JS, but then the developers rewrote the framework and made it dependent

on TS. Angular 2 and 2+ are strictly based on TS.

Angular includes: A component-based framework for building scalable web applications. A collection of well-integrated libraries that cover a wide variety of features, including routing, forms management, client-server communication, and more. A suite of developer tools to help you develop, build, test, and update your code.

The advantages of Angular are:

- Use modern web platform capabilities to deliver app-like experiences. High performance, offline, and zero-step installation.
- Build native mobile apps with strategies from Cordova, Ionic, or NativeScript.
- Angular turns your templates into code that's highly optimized for today's JavaScript virtual machines, giving you all the benefits of hand-written code with the productivity of a framework.
- Angular apps load quickly with the new Component Router, which delivers automatic code-splitting so users only load code required to render the view they request.
- Command line tools: start building fast, add components and tests, then instantly deploy.
- Create high-performance, complex choreographies and animation timelines with very little code through Angular's intuitive API.

The different features provided by Angular are:

- Components, custom and inbuilt
- Data and Event Binding
- Directives and Pipes
- Services
- Dependency Injection
- Routing
- Observables
- Forms - Reactive and Template
- Http Requests
- Dynamic Component
- Animations.

The Angular overview is shown in the figure 2.2

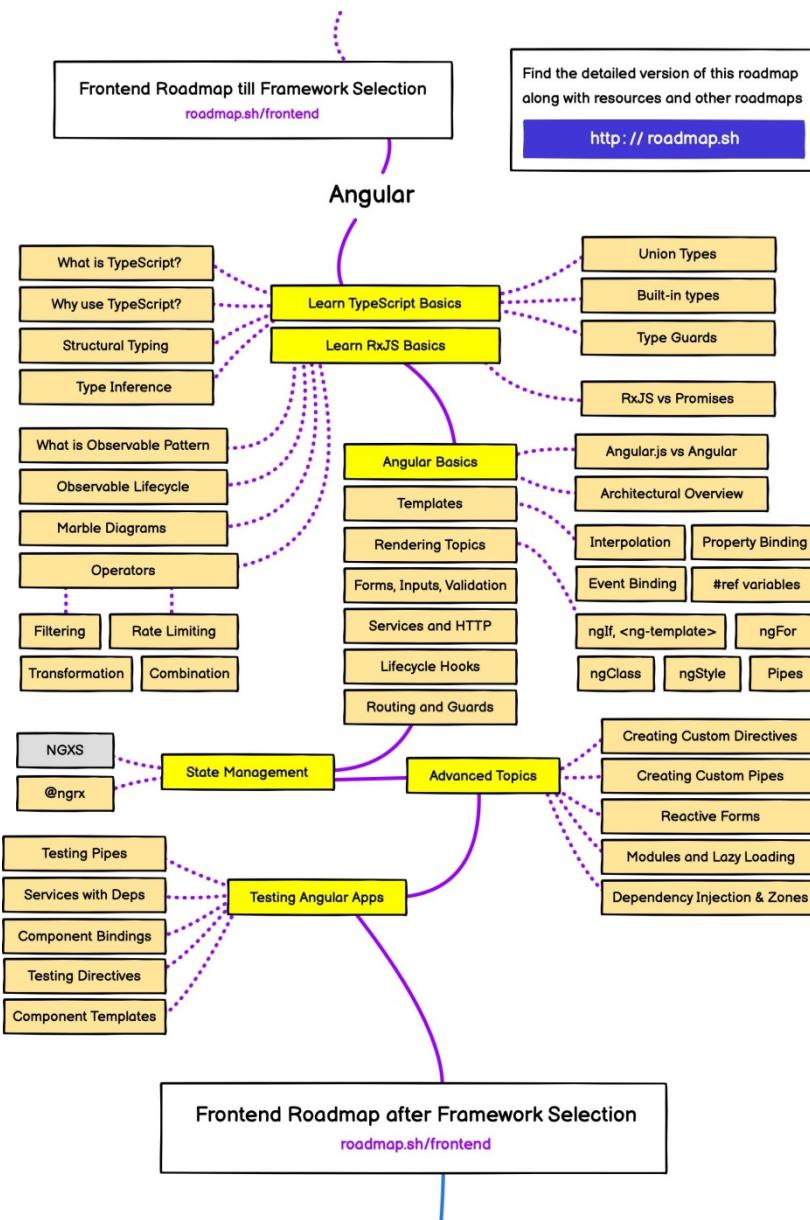


Fig-2.2 Angular Overview

2.5 Internship Flow

2.5.1 Responsibility and roles

- Reporting to Team Lead about daily work and daily goal.

- Do the tasks assigned for confirmation of profile.
- Understanding already written live project code.
- Finding Root Cause Analysis of the assigned bug.
- Fixing the bug according to the RCA found.

2.6 Scheduling

The internship was divided into three parts:

1. Completion of tasks assigned for confirmation of work profile
2. Complete the Training of the profile
3. Bug fixing and new feature implementation

3. Project Management

3.1 Project Planning

3.1.1 Project Development Approach and Justification

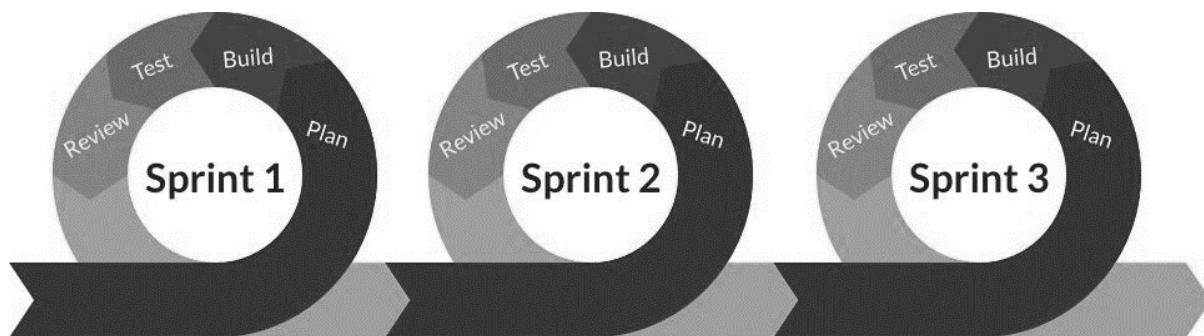


Fig 3.1 Agile development model

Agile models believe that every project needs to be handled differently and the existing methods need to be tailored to best suit the project requirements. In Agile, the tasks are divided to time boxes (small time frames) to deliver specific features for a release.

Iterative approach is taken and working software build is delivered after each iteration. Each build is incremental in terms of features; the final build holds all the features required by the customer.

Following are the Agile Manifesto principles:

- **Individuals and interactions** –In Agile development, self-organization and motivation are important, as are interactions like co-location and pair programming.
- **Working software** –Demo working software is considered the best means of communication with the customers to understand their requirements, instead of just depending on documentation.
- **Customer collaboration** –As the requirements cannot be gathered completely in the beginning of the project due to various factors, continuous customer interaction is very important to get proper product requirements.
- **Responding to change** –Agile Development is focused on quick responses to change and continuous development.

3.1.2 Project Effort and Time, Cost Estimation

- Regarding the programmer's efforts we spoke to the management of the institution's final affairs, the staff who kept the records in most registers and the accounting officer about their current program, their needs and their expectations for the proposed new system.
- Reliable, accurate and secure data was also regarded as hard work outside of the proposed system. Because there was such a record of tracking all activities, performed by medical billing and daily insurance plan.
- This web application started about 5 years ago, Software costs include a small percentage of all computer-based system costs. There are a few factors, considerable, that can affect the final cost of software such as - personal availability, technology, Hardware and Software etc.
- The cost estimates made by our company for the project are also based on the basic metrics collected from past projects and these are used in conjunction with variable rates to improve costs and efforts.

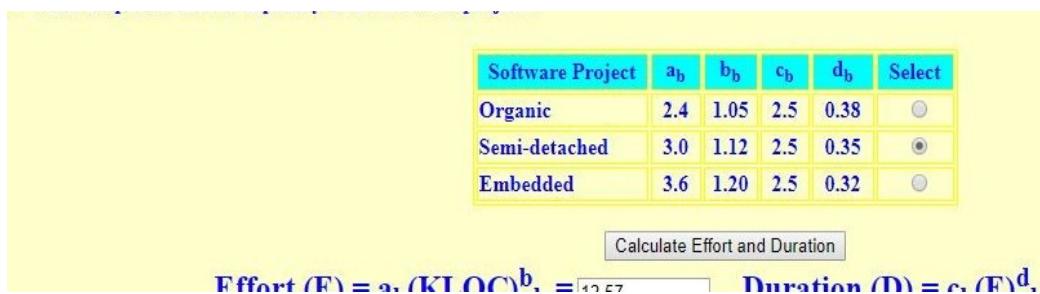


Fig 3.2 Cost and Time Estimation

3.1.3 Roles and Responsibility

Backend developer: Responsibility of backend developer is to create and update APIs for creating, deleting and updating patient allergies and then test the APIs using postman tool.

Frontend developer: Responsibility in frontend development is to create UI for patient demographics.

3.1.4 Group Dependency

When a developer wants to deploy code on a server, they need to submit their code to a code reviewer, which is a dependency when they want to test the product on servers. Developers are also dependent on requirements which are changing when an agile model is followed. Tester is dependent on the developer.

3.2 Project Scheduling

Gantt Chart:

- It is also known as Bar chart is used exclusively for scheduling purpose. It is a way to manage a project. It is used for scheduling appointments and organizing events for the venue in particular. Budget planning and resource planning. Gantt is a bar chart with each bar representing the function. Bars are drawn against the timeline. The length of time scheduled for work. The Gantt chart in the diagram shows the grey parts of the loosening period which is the last time the work is completed.

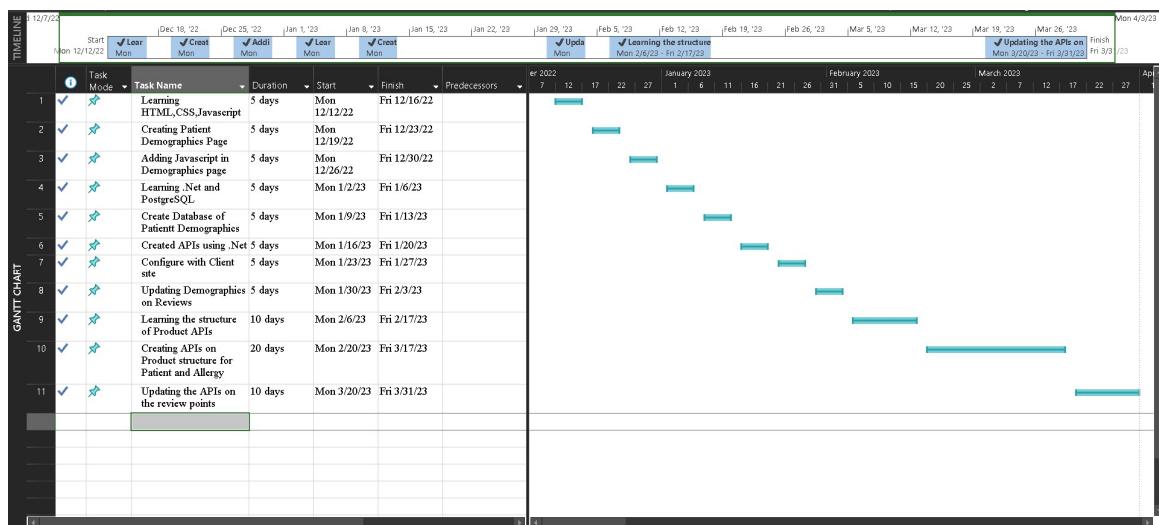


Fig 3.3 Gantt Chart of Backend Development

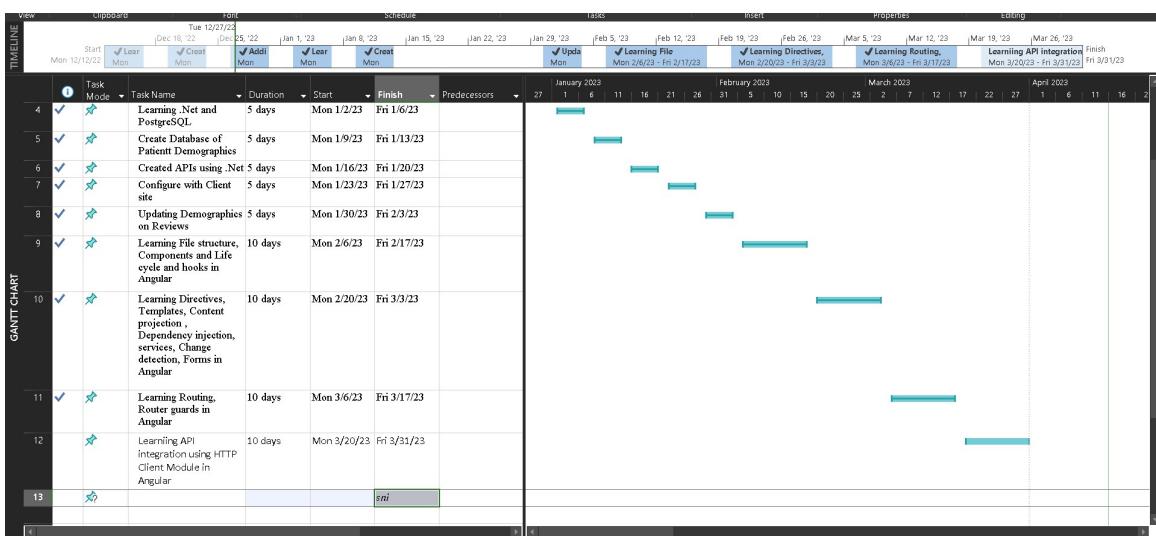


Fig 3.4 Gantt Chart of Frontend Development

4. System Requirements Study

4.1 User Characteristics

I have identified four potential classifications of users of our system.

- Software Developers
- Business Analysts
- Support Team
- Sales Team

1) Software Developers

✓ About

These are the people that take the model generated by the designers and implement it in code. They may also use the system to identify the design of an existing system to maintain it.

✓ Characteristics

- A thorough knowledge of object-oriented design notation.
- Familiarity with common design environments.
- Knowledge about all the screens and forms.
- Information about all processes.
- Can solve any problem of project

2) Business Analysts

✓ About

These are the people that take the model requirements from the clients, represent them to the Developers as a rough design and also implement them in code. They may also use the system to identify the design of an existing system to maintain it.

✓ Characteristics

- Assisting with the business case
- Planning and monitoring
- Eliciting requirements
- Requirements organization
- Translating and simplifying requirements

- Requirements management and communication
- Requirements analyst

3) Support Team

✓ About

These are the people that take the client's error or bug or problem and try to solve it by sending it forward to Developers or Business Analysts.

✓ Characteristics

- Assisting with the clients
- Listen to the clients' problems
- Bug reporting
- Assign someone to fix bug
- Developer assignment

4) Sales Team

✓ About

These are the staff which deals with sales of the product.

✓ Characteristics

- Goes to clients to display and sale the product
- Has knowledge about the product

4.2 Hardware And Software Requirements

4.2.1 Development Environment

Software Requirement:

- Angular 11
- .NET
- PostgreSQL
- Visual Studio

- VS Code (1.77.1)
- Postman
- Any compatible browser

Hardware Requirement:

- 8 GB RAM
- 256 GB SSD
- Processor: Intel i5 10th generation
- Mouse: Any Compatible
- Keyboard: Any Compatible
- Display: Any Compatible

4.2.2 Execution Environment

Software Requirement:

- Any Browser

Hardware Requirement:

- RAM – 2GB
- Device with decent internet connectivity
- Mouse: Any Compatible
- Display: Any Compatible

4.3 Assumptions And Dependencies

✓ Assumptions

- This IMS system is Secure.
- Assumptions are made that the system is not responsible for the security if one of the users shares their credentials with somebody else.
- This can lead to breach in the security of the software.

✓ Dependencies

- Software is dependent on the network.
- If the network goes down the working of the system will get affected.
- Dependent on the secure connection. The main disadvantage of having IMS is that IMS systems are vulnerable to hacking, which means sensitive patient data could fall into the wrong hands.

5. System Analysis

5.1 Study of Current System

Traditional way of gathering and storing patient data is very tedious. US health care work flow is completely different from India's health care process. Patient can not directly get medicines and cannot do meeting directly with health care provider. For the check-up or follow up process patient needs to book and appointment and then at the time off appointment at front-desk the patient needs to fill-up various forms, then the get meeting with MA (Medical Assistant) they get the patient vitals and after checking up and allergy check they get meeting with health care provider (Doctor) they give the prescription based on patient reports and then patient gets the medicines.

In this whole process the medical organization have to keep the patient securely according to HIPAA (Health Insurance Portability and Accountability Act) so to store this much amount of data securely and maintain these data is not easy task.

To provide solution for above problem US Government introduce EHR (Electronic Health Record) which store data in electronic form instead manually on paper. And make things easy Meditab Software have come up with IMS software which is Intelligent Medical Software. Which provides healthcare provides to create and manage patient records, medical histories and clinical notes, appointment scheduling, billing management, mange claims, allows healthcare providers to create and manage medical workflow etc.

5.2 Problems of Current System

- **Complexity:** WebIMS is a comprehensive EHR system with many features and capabilities. As a result, it may be complex and require a significant amount of training to use effectively.
- **Customization:** While WebIMS is highly customizable, some users may find that certain features or workflows are not easily customizable to meet their specific needs.
- **Integration:** While WebIMS can integrate with other systems and third-party applications, the integration process may be complex and require additional resources.
- **Cost:** As a comprehensive EHR system, WebIMS may come with a significant cost, including licensing, training, and maintenance fees.
- **Reliability:** As with any software system, there is a risk of downtime or other technical issues that could impact the reliability of WebIMS.

- **Dependence on internet connectivity:** The project relies on a stable internet connection to access and transmit data between Meditab's software and Dr.Catalyst EHR's virtual scribe service. Any disruption in the internet connection may affect the functionality of the system.

5.3 Functional And Non-Functional Requirements

5.3.1 Functional Requirements

- **Patient management:** WebIMS should allow healthcare providers to create, manage, and access patient records, including demographics, medical history, clinical notes, and appointment history.
- **Appointment scheduling:** WebIMS should allow healthcare providers to schedule, manage, and access appointments, including automated appointment reminders.
- **Billing and claims management:** WebIMS should allow healthcare providers to create, manage, and access claims, process payments, and generate reports related to billing and claims management.
- **Clinical workflows:** WebIMS should allow healthcare providers to create, manage, and access clinical workflows, such as order sets and protocols, to improve clinical processes and patient outcomes.
- **Prescription management:** WebIMS should allow healthcare providers to create, manage, and access prescriptions, including electronic prescribing and refill requests.
- **Reporting and analytics:** WebIMS should allow healthcare providers to generate reports and analyse data related to patient care and practice performance.

5.3.2 Non-Functional Requirements

- **Performance:** This includes requirements related to the speed, scalability, and responsiveness of the system.
- **Usability:** This includes requirements related to the ease of use and understandability of the system for the end-users.
- **Availability:** This includes that the features and functionalities are always available to users at any point of time.
- **Maintainability:** This includes requirements related to the ease of maintaining the system, including testing, debugging, and modifying the system.

- **Portability:** This includes requirements related to the ability of the system to be easily transferred to different hardware or software environments.
- **Manageability:** This feature is defined as the ability to control a system efficiently and keep it fully operational.
- **Data integrity:** Data integrity refers to maintaining and assuring data accuracy and consistency over its entire lifecycle.

5.4 Feasibility Study

Feasibility is the study of impact, which happens in the organization by the development of a system. The impact can be either positive or negative. When the positives nominate the negatives, then the system is considered feasible.

5.4.1 Does the system contribute to the overall objectives of the organization?

Yes, it does. Intelligent Medical Software is an important part of the most valuable product of organization Meditab. It will make the process of storing and retrieving the data easier and efficient.

5.4.2 Can the system be implemented using the current technology and within the given cost and schedule constraints?

Development of this application is highly economically feasible. The organization does not need to spend more money for the development of the system. The only thing to be done is making an environment for the development with an effective supervision. If we are doing so, we can attain the maximum usability of the corresponding resources. Even after the development, the organization will not be in a condition to invest more in the organization. Therefore, the system is economically feasible.

5.4.3 Can the system be integrated with other systems which are already in place?

No, the Dr.Catalyst EHR (WebIMS) is web based application which cannot be integrated with other web applications. User can use this with any browser available and on any device so there is no any requirement to integrate the system with other system.

5.5 Activity/ Process In New System

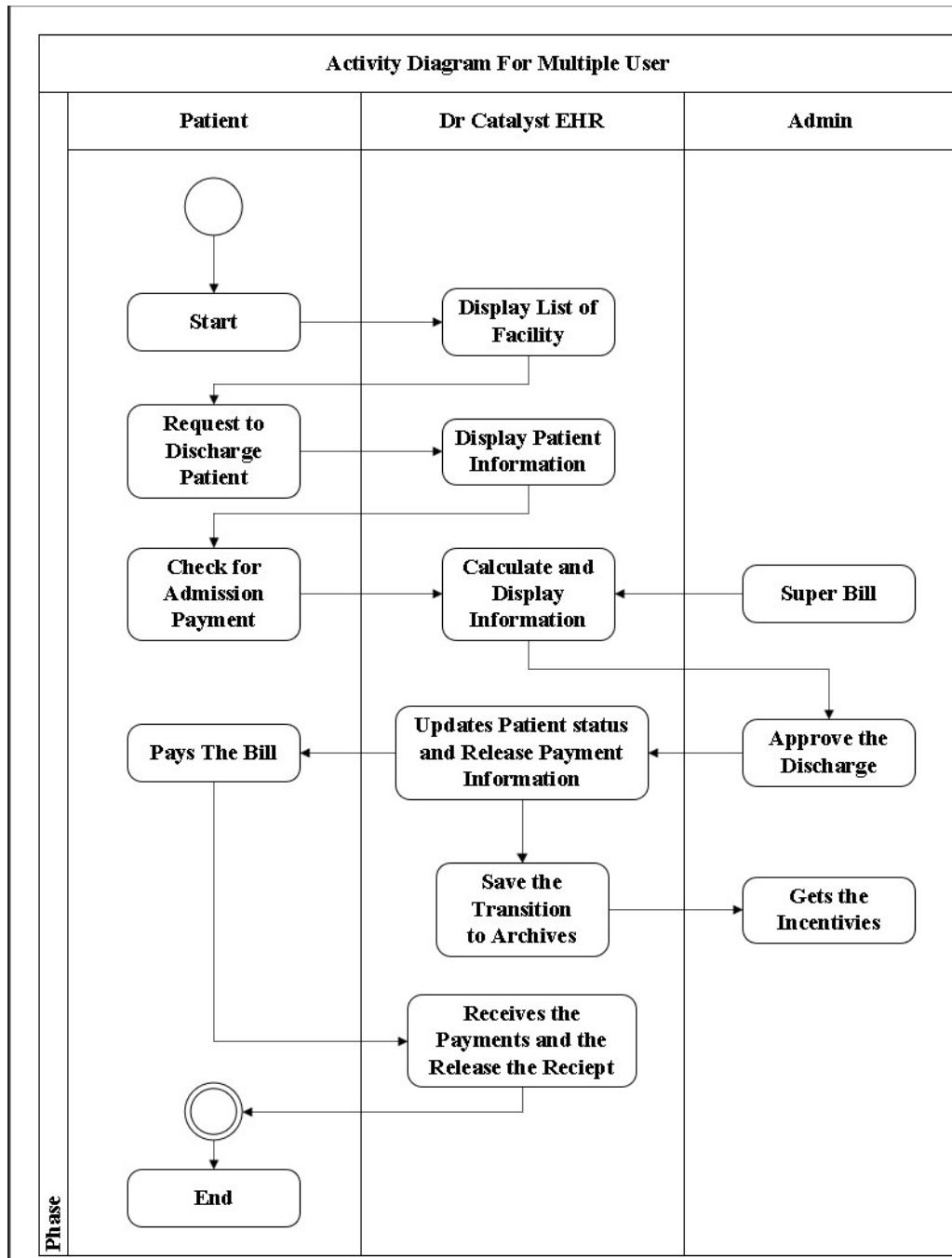


Fig 5.1 Activity Diagram for patients

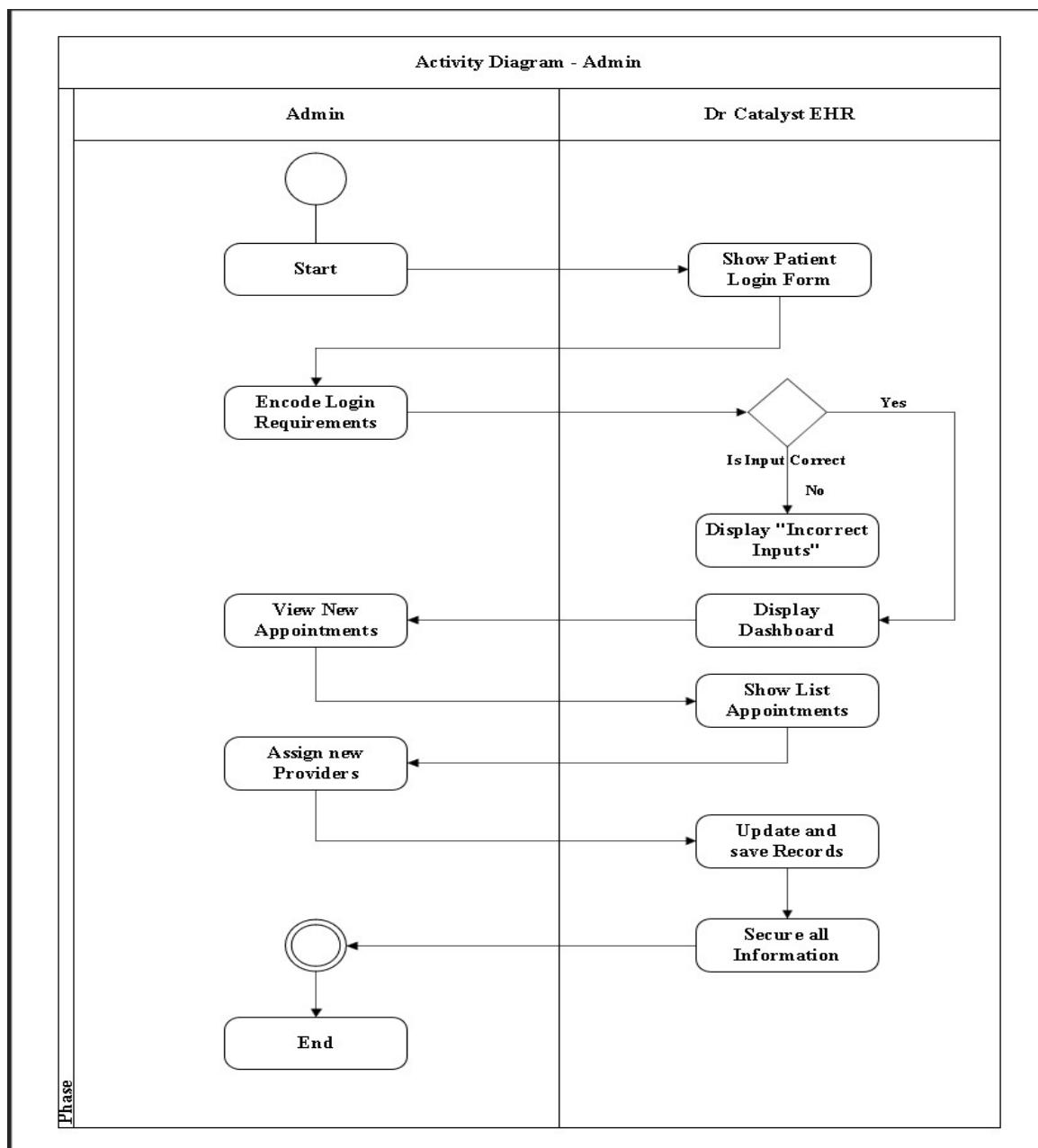


Fig 5.2 Activity Diagram for admin

In the new system, users will enter credentials. It can be done through a simple login portal. After login is done successfully, the main screen will be opened. Users will get options to click on toolbar items or navigate through the menu bar. The client, which needs to open a patient master for entering/editing/deleting the patient details. The client, which needs to enter the insurance details for the selected patient, will open an insurance patient portal from the patient master. As soon as the

user selects the instruction master, the user will be able to enter data regarding the instructions that pop up when the patient and provider performs some action. On clicking on authorization tracking, users can track all the claims for the insurance.

5.6 Features of New System

- Identify and maintain a patient record.
- Manage patient demographics.
- Manage problem lists.
- Manage Patient History.
- Manage claim tracking.
- Instruction master for mentioning the instruction that needs to be followed for some particular processes.

5.7 Use Case Diagram

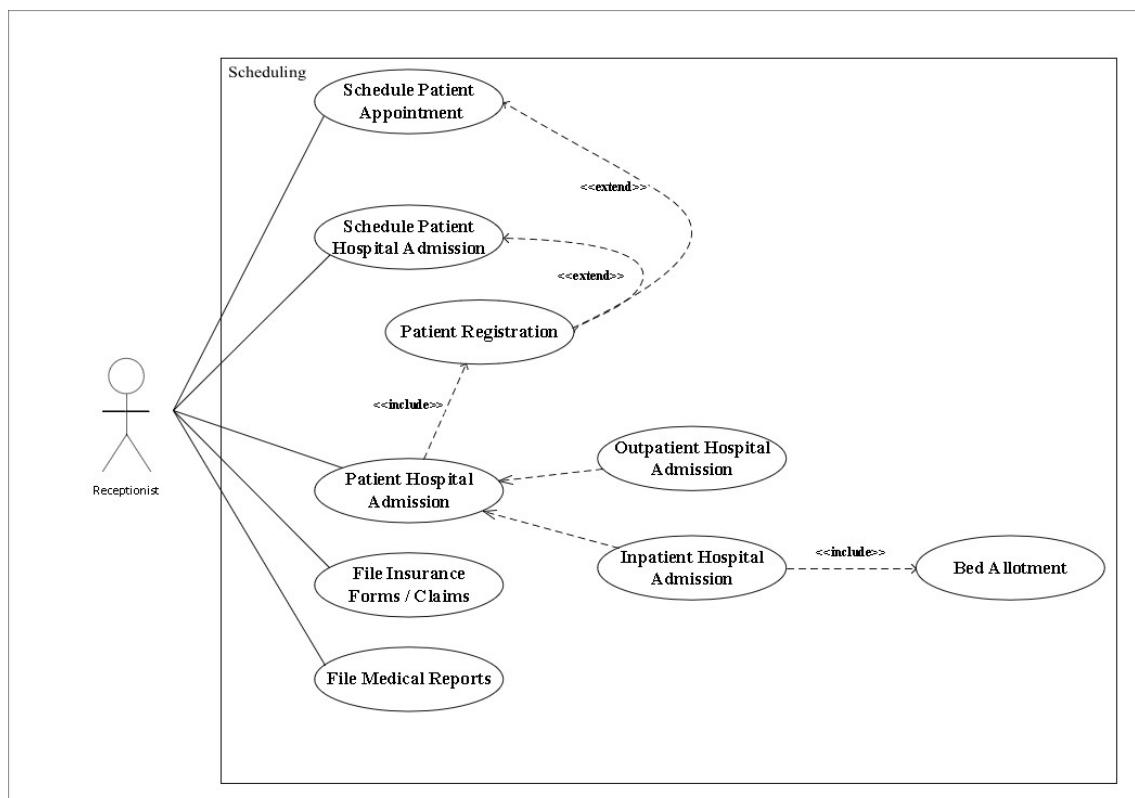


Fig 5.3 Use Case Diagram

5.8 Class Diagram

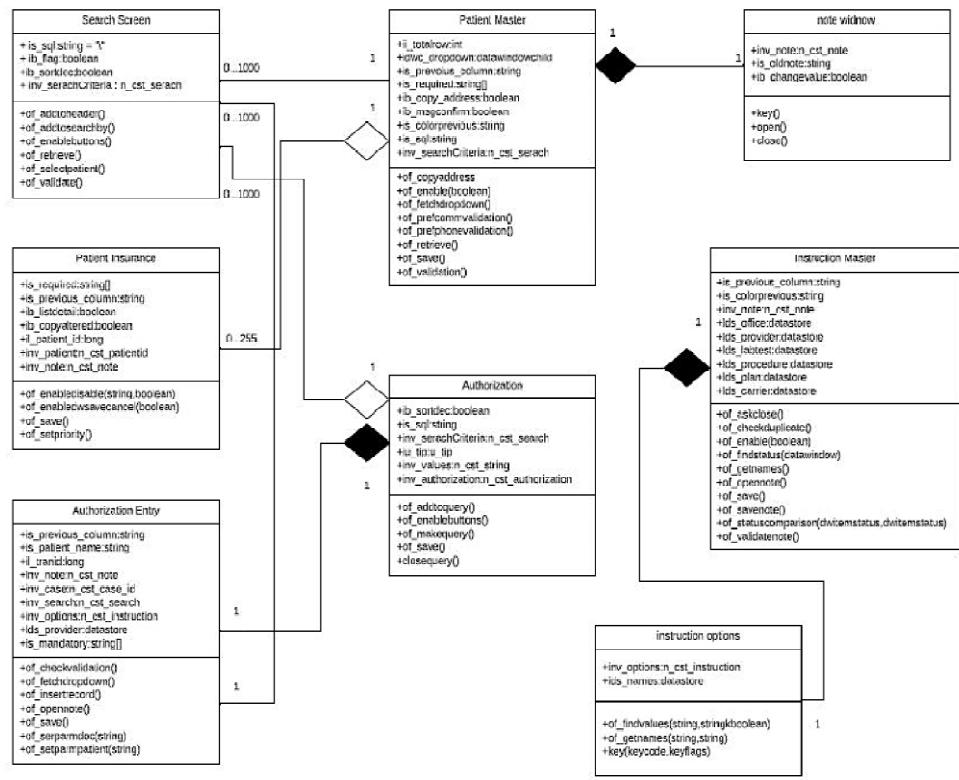


Fig 5.4 Class Diagram

5.9 Sequence Diagram

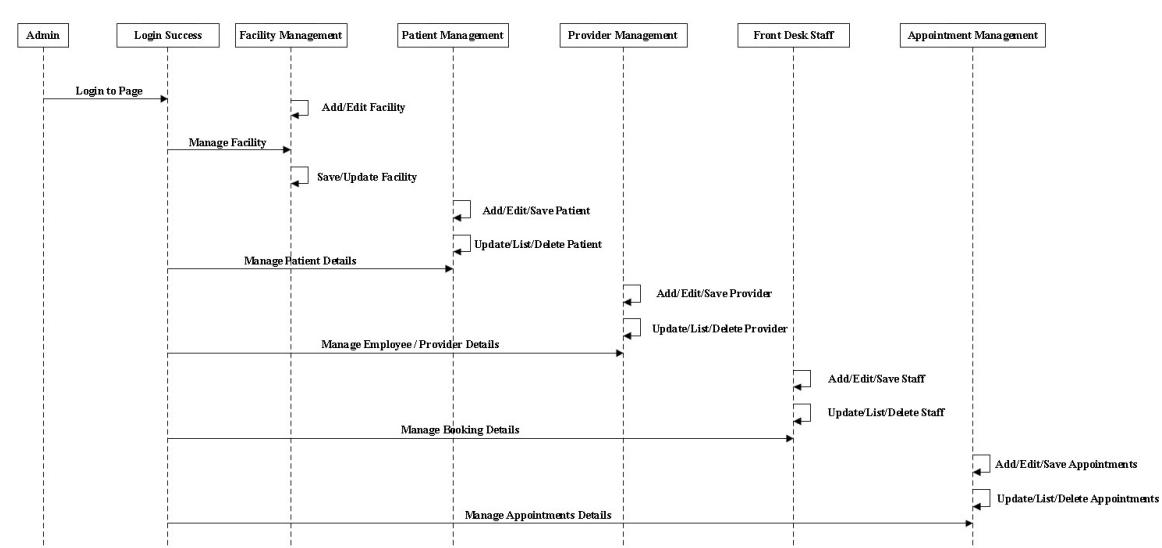


Fig 5.5 Sequence Diagram

5.10 ER Diagram (System Generated)

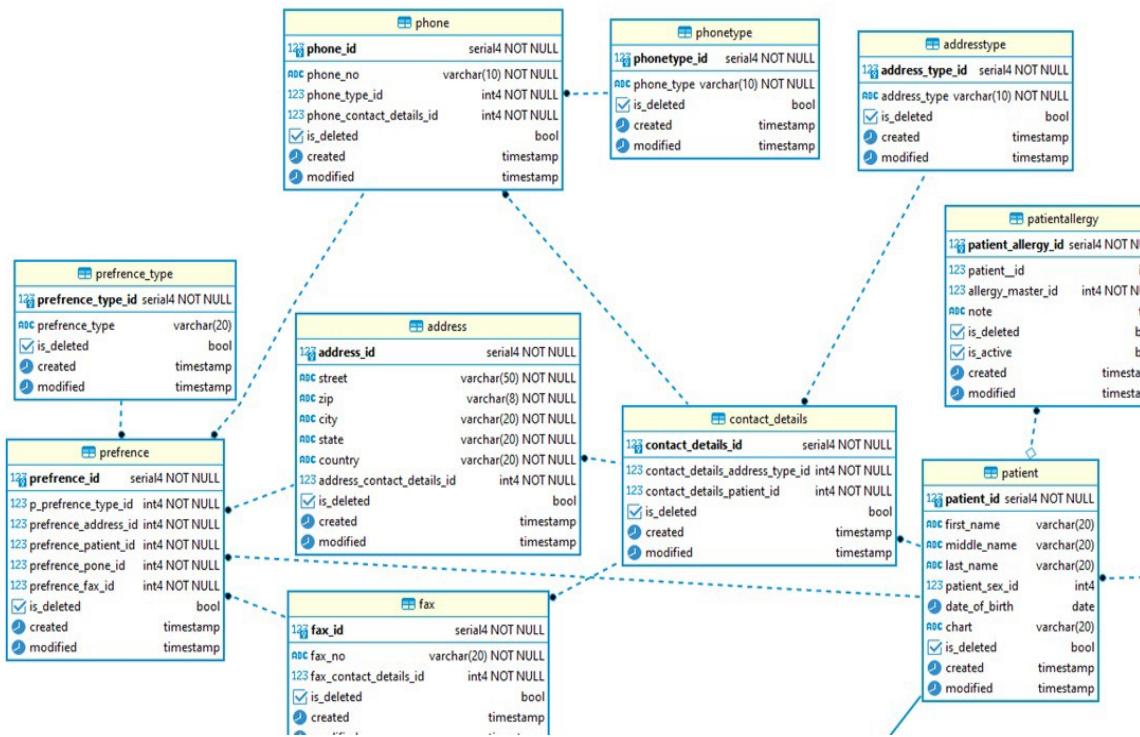


Fig 5.6 ER Diagram

5.11 List Main Modules of New System

- Patient Management:** This module allows healthcare providers to manage patient demographics, medical history, and clinical notes, including diagnosis, treatment plans, and progress notes.
- Appointment Scheduling:** This module allows healthcare providers to schedule, reschedule, and cancel patient appointments, as well as send automated appointment reminders to patients.
- Billing and Claims Management:** This module allows healthcare providers to create, manage, and submit claims, as well as generate billing reports and handle patient billing inquiries.
- Prescription Management:** This module allows healthcare providers to create and manage electronic prescriptions, handle refill requests, and maintain prescription records.

- **Clinical Workflows:** This module allows healthcare providers to create, manage, and customize clinical workflows, such as order sets and protocols, to improve clinical processes and patient outcomes.
- **Admin:** This module allows admin to create new job titles, manage patient and employee data. It allows admin to create, update and delete employee data.
- **Patient Ledger:** In this module healthcare organization can store and read patient information and it is used to store patient forms and history data.

5.12 Selection of Hardware & Software And Justification

❖ Hardware

- RAM: 4.00GB;
- Processor: Intel Core i5 CPU @ 3.20GHz
- Operating System: Windows 7 or higher version
- System type: 64-bit operating system; Graphics: Intel HD Graphics

❖ Software

- 64-bit operating system.

*Given hardware and software are selected as per the company requirements, guidelines and policies.

6. System Design

6.1 System Application Design

6.1.1 Method Pseudo Code

- Login Module
- Credentials checked with the database for the login process.
- Open Main page
- Main application frame will open after successful login.
- Retrieve Patient List
- Data of the patient is retrieved in the Patient Master Module.
- Data is retrieved from the database on the basis of the specific search keyword.
- Authorization Tracking Module
- The claims generated by the providers or billers are sent to the insurance company.
- The tracking of the claims are handled in this module.
- This consists of sending the claim, changing the status of the claim and submitting them to the insurance company.

6.2 Input/Output And System Design

The interface Will be in the form of web page.

6.2.1 Home Page

This is home page of our website.



Fig 6.1 Home page

6.2.2 Patient Demographics Page

In this page user add patient data and create new patient or update patient data and save them. On the left side there is navigation side bar from which user can select appropriate option.

Fig 6.2 Patient Demographics Page

6.2.3 Patient Contact Section

In this section user can add patient contact details like their address or phone numbers and also having the facilities of adding multiple address and contacts.

The screenshot shows a 'Contact Details' section with two address entries and one phone entry. Each address entry includes fields for Street, Zip, City, State, and Country (set to US). Below each address is a 'Phone' section with fields for Type (Cell), Code, Number, and Ext., along with a '+' button to add more. There are also 'Fax' and 'Email' buttons. A note at the top says: 'Please set the preferences after adding the contact information, the section to set preference can be found below the contact section of the page.'

Fig 6.3 Patient Contact Section

6.2.4 Patient Contact Preference Details Section

In this section user can select patients' preferred address and contacts. All details will be automatically suggested by the saved contact details.

Type	Address	Phone !	Fax	Email !
Appointment Reminder				
Mailing				
Primary				
Statement				

Fig 5.4 Patient Contact Preference Details Section

6.2.5 Patient Other Contact Details Section

In this section patients' other details can be added by user like employment or first called date or relatives details etc.

Other Details

Employment:	Male	Sexual Orientation:
First Called Date:	Referral Source:	Deceased:
Decceased Time:	Mother's Maiden:	Mother's Middle Name:
Mother's Last Name:	Mother Identifier:	Veteran Military Status:
Birth Place:	Multiple Birth:	Nationality:
Religion:	Driver's License:	Citizenship:
Note:		

Fig 6.5 Patient Other Contact Details Section

6.2.6 Facility Page

Facility

General

Code	Name*	Facility Type*
FAC1	Creekside Clinics, LLC	Office/Medical Group
NPI Type	NPI	Timezone*
POS (11) Office	WCB Rating Code	(UTC-07:00) PST - America/Los_Angeles
Other Specialties	Federal Tax Id Type	Primary Specialty*
Parent Facility		(207Q00000X) Family Medicine
Note	Federal Tax Id	Sequence*
Child Facilities		

Fig 6.6 Facility Page

6.2.7 Dashboard Page

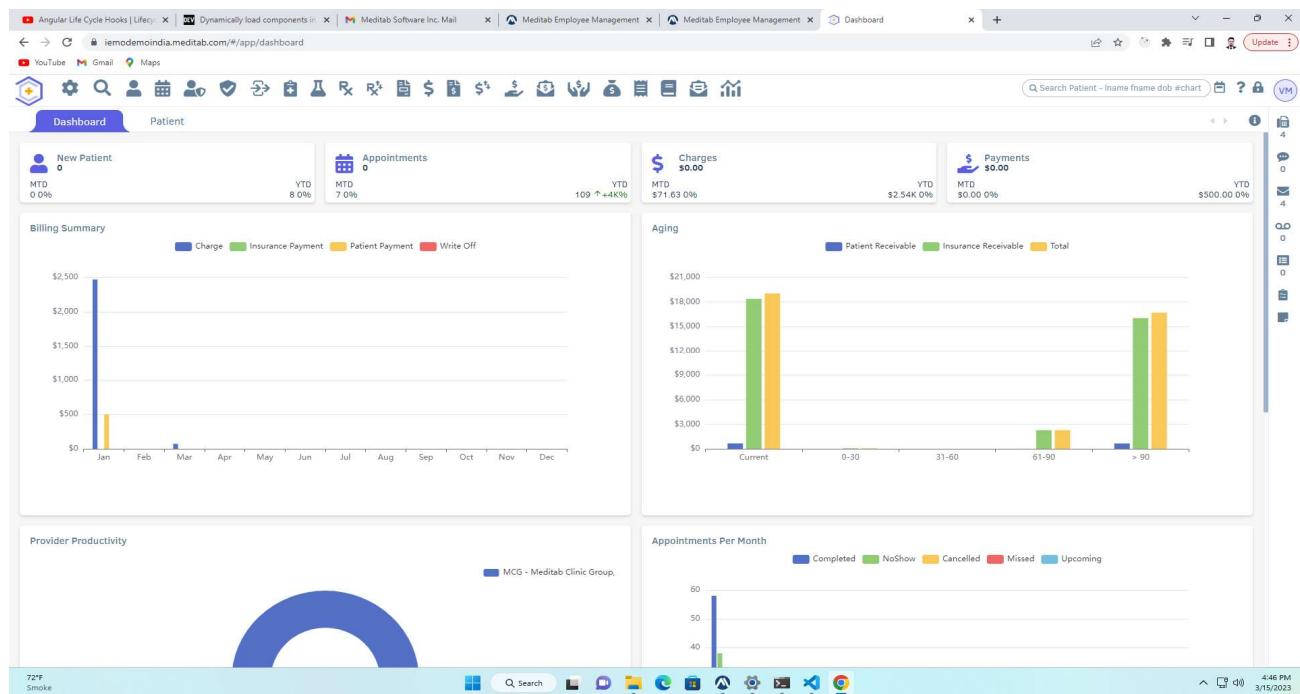


Fig 6.7 Dashboard Page

6.2.8 Setup Page

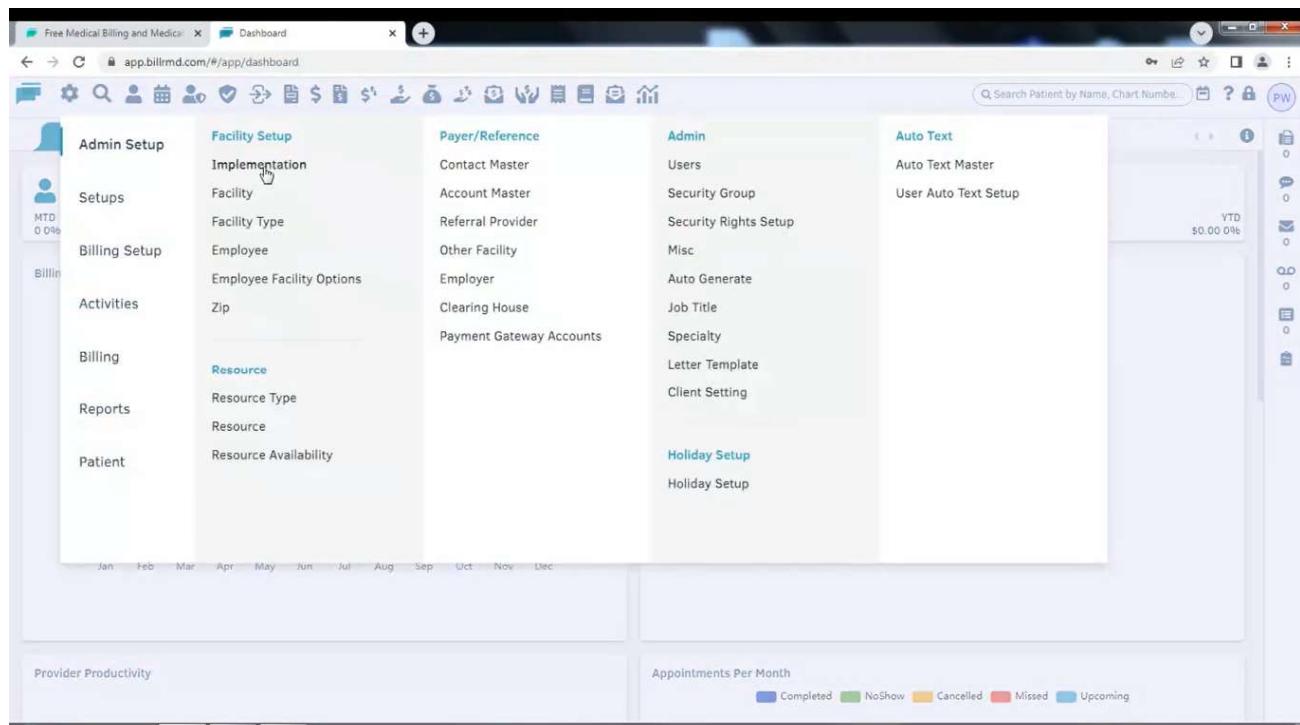


Fig 6.8 Setup Page

6.2.9 Checked In/ Checked Out Page

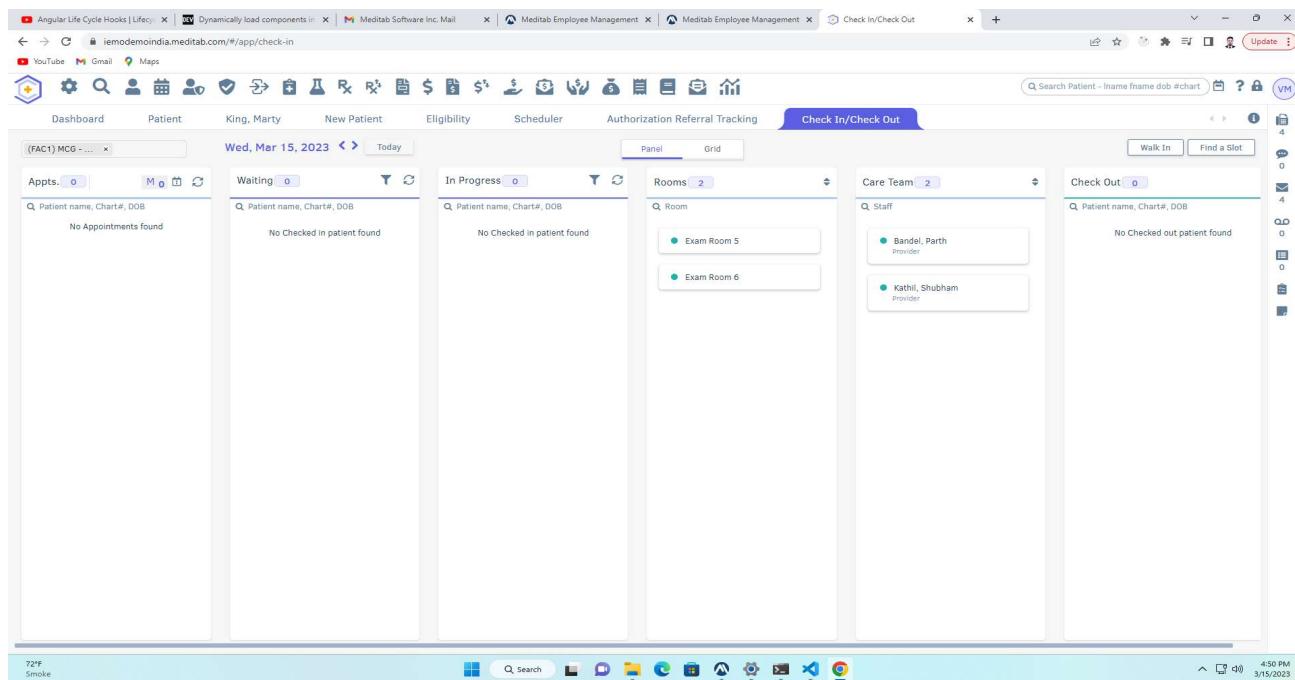


Fig 6.9 Checked In/ Checked Out Page

6.2.10 Implementation Page

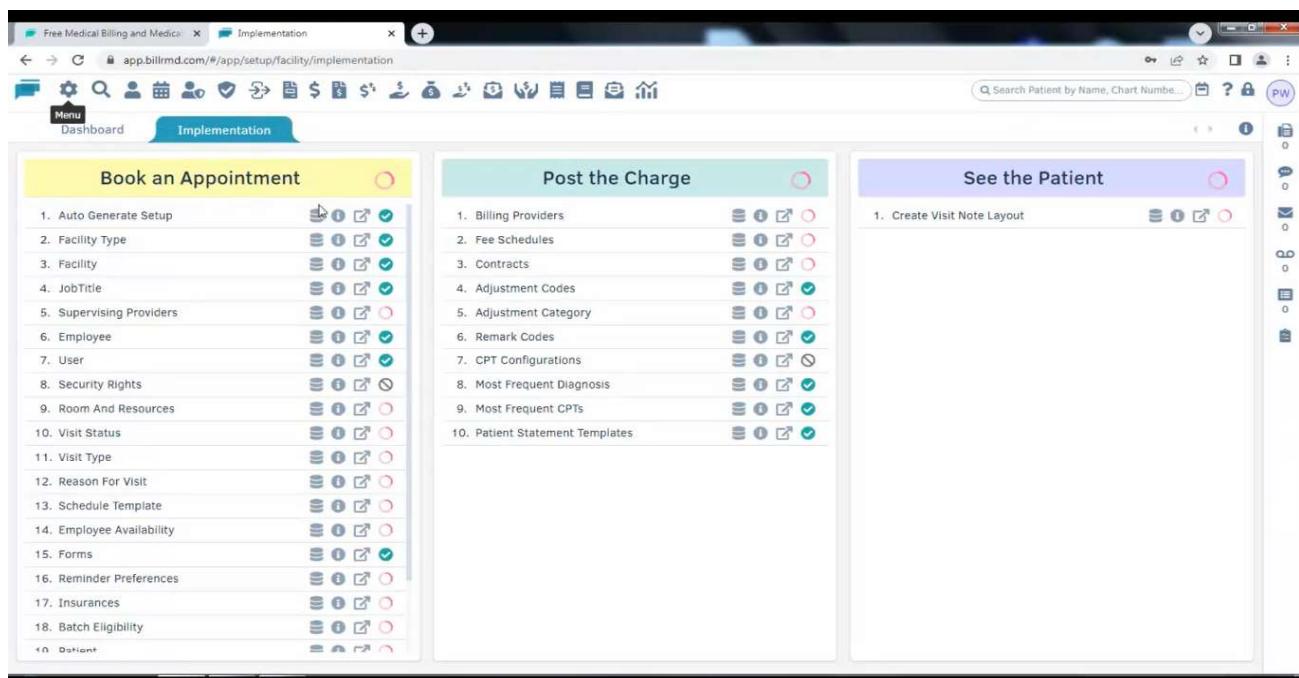


Fig 6.10 Implementation Page

7. Implementation Planning

Planning is an essential aspect of any successful project. However, it can be difficult to turn goals and strategy into tangible action, and, therefore, projects of all sizes and across all industries have a high tendency to fail. Implementation planning can reduce this chance of failure by helping turn strategy into action.

7.1 Implementation Environment

The application is a single server multiple client application.

Multi-user vs. Single-user: Single user applications are the application where it is useful to only one user at a time. While in Multi user given application is used by many users at the same time and thus web application is used by many users at the same time. Our system is a multi-user system as we can have many healthcare practitioners can use application at same time.

GUI vs. Non-GUI: Non-GUI application uses command Prompt for input and output while GUI application has graphics form to interface and other graphics property for various I/O operations and are easy to use Our System is a GUI based and thus easy and effective to use therefore users can easily give commands and can get specified results.

7.2 Program/Module Specification

1. **Primary Design Phase:** The system is designed at block level. These all blocks are created on the basis of study analysis done in the problem identification phase. It will be minimizing the information flow between blocks by different blocks are created for different function. Thus, all activities which require more interaction are kept on one block.
2. **Secondary Design Phase:** In the secondary phase the detailed design of each block is performed.

The general tasks involved in the design process are the following:

1. Create various blockchain processes for the entire system.
2. Create small, integrated and usable modules for each block.
3. Create multi-database frameworks.
4. Specify program details to achieve the performance you want.
5. Create input method, and system results.
6. Create design texts.
7. System updates.

7.3 Security Features

- Login credential validations.
- Patient Master Fields validation.
- Search filters validations.
- Security features regarding the Authorization Tracking.

7.4 Coding Standards

To develop reliable and maintainable applications, you must follow coding standards and best practices. The naming conventions, coding standards and best practices described in this document are compiled from our own experience and by referring to various guidelines. There are several standards that exist in the programming industry. None of them are wrong or bad and you may follow any of them. What is more important is, selecting one standard approach and ensuring that everyone is following it.

In this phase of software development, the design is related to a system converted into a machine-readable code that can be compiled and executed. Although the coding phase does not affect the structure of the system, it has a great impact on the internal structure of the module, which affects the testability, under the stability of the system.

7.4.1 Naming Convention and Standards

Your peer programmers have to understand the code you produce. A coding standard acts as the blueprint for all the team to decipher the code. Simplicity and clarity achieved by consistent coding

saves you from common mistakes. If you revise your code after some time, then it becomes easy to understand that code. It's industry standard to follow a standard to be more quality in software.

7.4.2 Naming Convention

a) model field Naming Conventions (pascal case)

- Example: patientid = PatientId
- firstname = FirstName
- lastname = LastName
- middlename = MiddleName
- dob = DOB
- createdby = CreatedBy

b) parameter naming conventions (Camel case)

- objPatientBOResult_
- returnResponse
- isShowCount

c) Comment

commenting for each API services

- In event and function there should be comment on top as below :-

```
/// <summary>
```

```
/// This method returns the patient record by the firstname, lastname, sex and dateofbirth  
according to the pagenumber and pagesize and orderby sorting
```

```
/// </summary>
```

```
/// <example>
```

```
/// For example:
```

```
/// /api/Patient/GetList?PageNumber=1&PageSize=5
```

```
/// results in records of patient having paginayion of pagesize of 5
```

records and 1 page number

```

///</example>

///<param name="patient_obj"></param>

///<param name="PageNumber">1</param>

///<param name="PageSize">10</param>

///<returns>

/// [{"patient_id": 1,
  "chartnumber": "CHART001",
  "first_name": "Test",
  "last_name": "User",
  "middle_name": "testUser",
  "sex_id": 1,
  "sex": "MALE",
  "dob": "18/05/2001 12:00:00 AM",
  "isdeleted": false,
  "created_on": "0001-01-01T00:00:00",
  "modified_on": "0001-01-01T00:00:00",
  "allergyname": "MILK",
  "note": "note1",
  "orderby": "Patients.patient_id",
  "patientAllergyId": 0,
  "allergyMasterId": 0}]]</returns>

```

CHAPTER 8: TESTING

8.1 TESTING PLAN

The test plan describes the test environment and the required test resources. It also provides measurable goals by which management can gauge testing. Furthermore, it facilitates communications within the test team, between the test team and the development team, and between the test team and management. It tells what to test.

The main test plan in our application includes:

For the Testing plan, we worked on Security rights testing particular screens. In that We have to check the user rights of VIEW, CREATE, UPDATE and DELETE and also, we have done developer testing for CRUD.

Table 8.1 Tests Performed on the App

Test Case ID	Test Scenario	Test Data	Pass/Fail
T01	Check CRUD rights on Patient Details	Test data from the dataset	Pass
T02	Fill Form and obtain dynamic object with its data	Enter the data Manually	Pass
T03	Validation on input field works or not	leave some inputs empty to see validation	Pass
T04	Get patient data from backend and repopulate the data in Form	Test data object from backend GET by ID api call	Pass
T05	Update patient data	data obtained by get method mentioned in T04	Pass

T06	Relocate page when new patient is added	Enter the data Manually	Pass
T07	Relocate to home page when patient data not found or when patient data is deleted	Try to search patient form URL by?id=,or deleting patient	Pass
T08	Remove Changes on existing patient data	Data from get method mentioned in T04	Pass

Psychology of Testing: The aim of testing is often to demonstrate that a program works by showing that it has no errors. The basic purpose of testing phase is to detect the errors that may be present in the program. Testing is the process of executing a program with the intent of finding errors.

Characteristics of a Good Test:

- Tests are likely to catch bugs
- No redundancy
- Not too simple or too complex

8.2 TEST STRATEGY

Testing is the process of analysing a software item to detect the differences between existing and required conditions and to evaluate the features of the software item. The Test Strategy decides how I am going to approach the testing in terms of people, tools, procedures and support. It tells how to test. Testability is one of the primary design goals for Training Management.

Each type of test has a distinct purpose. They are the following:

Unit tests: Unit tests are written by developers and run under a unit testing framework. Unit tests isolate and verify discrete units of program logic. They isolate the logic by replacing

dependencies on the run-time environment, such as API call, with test-provided substitutes. Isolation allows unit tests to run quickly, and Developers can run unit tests frequently.

Integration tests: Integration tests differ from unit tests in that the code under test is not isolated. Developers or testers write integration tests. They run in a unit-testing framework.

Acceptance tests: Acceptance tests consist of multiple steps that represent realistic usage scenarios of the application as a whole. These tests verify that an application meets the needs of the intended users. Their scope includes usability, functional correctness, and performance. Generally, test engineers create these tests.

8.3 TEST SUITS DESIGN

8.3.1 Test Cases:

Following are the test cases for which the application goes under the test check before it is deployed.

Test Suite: 1

Test suite detail: Checking login module as shown in Table 8.2:

Table 8.2 Test Suite: 1

Test Case ID	Function Name	Test Case	Expected Result	Actual Result	Pass/Fail
1	Login Credentials	Login with wrong credentials	Should show alert message	Alert box is showing	Pass
2	Login Credentials	Login with right credentials	Should show success message	Success message showing	Pass

3	Login Credentials	One of the login failed	Next step should not be enabled	Error displayed	Pass
4	Login Credentials	Success in both login	Next step should be enabled	Redirected to home page	Pass
5	Login Credentials	While entering the user id according to that user the office must be auto selected in the below drop down	Selection of user's default office on pressing tab	As Expected	Pass
6	Login Credentials	On entering the system as the login credentials must pop-up a another login screen that is only valid for the organization members	Pop-up of another login screen.	As Expected	Pass

Test Suite: 2

Test suite detail: Checking client grid and selection of clients:

Table 8.3 Test Suite: 2

Test Case ID	Function Name	Test Case	Expected Result	Actual Result	Pass/Fail
1	Open Patient Master	On click of patient icon on the icon toolbar	Should Open Patient Master	Opening Patient Master module	Pass
2	Open Patient Master	Search existing client	Should Open Patient Master	Opening Patient master module	Pass
3	Open Patient Master	Setup>>Patient on the menu bar	Should Open Patient Master	As Expected	Pass
4	Patient Master GUI Verification	Visibility, alignment, spelling, tab sequence, clickable fields, editable fields works properly or not	All the icons must be properly visible and align with no spelling error as well as with proper tab sequence and proper functioning of all the fields.	As Expected	Pass
5	Patient Master Default Values	On Addition of a new patient in the patient master.	Active and SOF checkbox must be checked. Office must be selected. Date must be in this 00/00/0000 format.	As Expected	Pass

6	Patient Master Required Values	On Addition of a new patient in the patient master.	Proper email validation, and according to that only related field must activate. Phone number mustn't be kept half filled	As Expected	New
7	Patient Master Validation checking	On Addition of a new patient in the patient master.	Proper email validation, and according to that only related field must activate. Phone number mustn't be kept half filled	As Expected	Pass
8	Patient Master CRUD Operations	On Opening the patient master	Must successfully perform all the crud operations.	As Expected	Pass

Test Suite: 3

Test suite detail: Checking project grid and selection of projects:

Table 8.4 Test Suite: 3

Test Case ID	Function Name	Test Case	Expected Result	Actual Result	Pass/Fail
1	Open Authorization Tracking Screen	Clicking the icon on the icon bar	Should open authorization Tracking screen	As Expected	Pass
2	Open Authorization Tracking Screen	Activities >> Authorization Tracking	Should open authorization tracking screen	As Expected	Pass
3	Authorization tracing CRUD operation	On opening the Authorization tracking screen	Must successfully perform all the crud operations	All CRUD APIs working fine	Pass
4	Authorization tracking filter bar	On opening the authorization tracking	All the drop-down must filter properly and must retrieve apt results	As Expected	Pass
5	Authorization tracking Report Generation	On clicking the print/fax	If not selected any row then must prompt for selecting at least one row for generation of report	As Expected	Pass

6	Authorization GUI verification	Check the Visibility, alignment, spelling, tab sequence, clickable fields, editable fields works properly or not	All the icons must be properly visible and align with no spelling error as well as with proper tab sequence and proper functioning of all the fields.	As Expected	Pass
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Test Suite: 4

Test suite detail: Checking Copy Module:

Table 8.5 Test Suite: 4

Test Case ID	Function Name	Test Case	Expected Result	Actual Result	Pass/Fail
1	Open Instruction Window	Setup>> Other>> Instruction	Should open the instruction window	As Expected	Pass
2	Instruction GUI verification	Check the Visibility, alignment, spelling, tab sequence, clickable fields, editable fields works properly or not	All the icons must be properly visible and align with no spelling error as well as with proper tab sequence and proper functioning of all the fields.	As Expected	Pass

3	Instruction CRUD operation	On opening the instruction window	Must successfully perform all the crud operations	As Expected	Pass
4	Instruction window required fields and drop- downs	On opening the instruction window	All the drop-down must filter properly and without filling the required fields it should not be saved.	As Expected	Pass
5	Instruction window default values.	On opening the instruction window	All the drop-down must be default selected to “All” except the insurance field and Active must be checked.	As Expected	Pass

Test Suite: 5

Test suite detail: Checking Authorization Tracking window

Table 8.6 Test Suite: 5

Test Case ID	Function Name	Test Case	Expected Result	Actual Result	Pass/Fail
1	Open Authorization Tracking Screen	Clicking the icon on the icon bar	Should open authorization Tracking screen	As Expected	Pass

2	Open Authorization Tracking Screen	Activities >> Authorization Tracking	Should open authorization tracking screen	As Expected	Pass
3	Authorization tracing CRUD operation	On opening the Authorization tracking screen	Must successfully perform all the crud operations	As Expected	Pass
4	Authorization tracking filter bar	On opening the authorization tracking	All the drop-down must filter properly and must retrieve apt results	As Expected	Pass
5	Authorization tracking Report Generation	On clicking the print/fax	If not selected any row then must prompt for selecting at least one row for generation of report	As Expected	Pass
6	Authorization GUI verification	Check the Visibility, alignment, spelling, tab sequence, clickable fields, editable fields works properly or not	All the icons must be properly visible and align with no spelling error as well as with proper tab sequence and proper functioning of all the fields.	As Expected	Pass

9. Conclusion

9.1 Self Analysis of Project Viabilities

- Fetching a particular data while searching from the database will take time.
- At a time, multiple users can login and use the system easily.
- Deletion of data is not allowed as it might be used by some other user, so it turned inactive.

9.2 Problem Encountered And Possible Solution

9.2.1 Problem Encountered

In Patient Master, for some clinics the choice for required fields were different while for others were different. So which fields to make required so that issue can be solved.

9.2.2 Possible Solution

For the above problem, I made a setup where the client can appropriately choose his/her own required fields and set it from the back end without changing the code.

9.3 Summary of Project Work

Dr.Catalyst EHR is Web based software. It makes the life of providers (doctors) much easier by converting file-based systems to software-based systems. This is done by registering the entire patient in the IMS software and managing all the patient related information in the patient master module. Medical Insurance is mandatory in the US. To manage the patient insurance our system uses the patient insurance module to keep the records of the patient insurance and help to track all the claims. Thereafter, as the number of patients is huge, a search screen module is available in our software. This makes it easier for the user to search the patients, insurances, providers, etc. Instruction master is used to provide the facility of jotting down predefined instructions for a particular action. Authorization tracking module is used to track the claims that need to be sent to the insurance company.

References

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<https://www.cms.gov/Medicare/E-Health>
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PLAGIARISM SCAN REPORT

14%
Plagiarised86%
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Date	2023-04-29
Words	421
Characters	3032

Content Checked For Plagiarism

The Patel family innovated Meditab in 1998 after passing first-hand the frustrations of having an shy EHR. Fed up with the tedious software that they were using in their family- possessed drugstore, they were determined to produce a system and a company that works with providers, rather of getting in the way. Soon, IMS was born. By 2003 launched IPS, as well, expanding of tware to apothecaries.

Since also, thanks to the simple desire to make providers' lives easier, Meditab has grown to offer software for further than 40 different medical specialties and has come

a colonist in clinic software. Work Done During the once two decades, MEDITAB have erected innovative, specialty-specific software similar as AllergyEHR, FertilityEHR, Ophthalmology EHR, CosmetiSuite, and more. They developed results that address all aspects of healthcare, from mobile functionality and telemedicine, to an each-new suite of office operation tools integrated with your EHR, the electronic Medical Office(EMO). Healthcare is always changing. That is why customization and rigidity are at the core of IMS. And for further than 20 times, Meditab has always been at the van of change and invention. results handed HER Our each- by- onemulti-specialty EHR, Practice Management and Billing software result allows croakers

to deliver the loftiest quality of care possible to their cases. Streamline your practice's workflows, optimize fiscal performance, and coordinate quality care briskly with IMS. Our each- by- onemulti-specialty EHR, Practice Management and Billing software result allows croakers

to deliver the loftiest quality of care possible to their cases. Streamline your practice's workflows, optimize fiscal performance, and coordinate quality care briskly with IMS. EMO EMO stands for Electronic Medical Office. It's an entire suite of office operation tools integrated with IMS and designed to optimize the medical office. Composed of several practical, time- saving modules, EMO transforms your traditional and homemade processes into a digital workflow.

Departments at work The different departments who work together to achieve a common thing Human and coffers Accounts Admin Deals and Marketing IMS inventor and Quality Critic WebIMS inventor and Quality Critic Cyber Security IT Services AndroidIMS and Quality Analyst Internal PHP pretensions and Achievements ISO90012015certified company BlackBook 2022 Named Allergy HER the# 1 HER for Allergy & Immunology Drummond Group 2015Ed Complete HER instrument. Intelligent Medical Software Named Gold Health IT Quality Solution by Quest Diagnostics. Size of the Company Meditab Software is a growing company, with around 800 workers and further. Company has three locales positioned at 219/ A, Kalasagar Mall, Sattadhar Cross Road Ghatlodiya, near Sai Baba Temple,

Matched Source

Similarity 34%

Title:Company | Integrated EHR Software Solutions

The Patel family founded Meditab in 1998 after experiencing first-hand the frustrations of having an inadequate EHR. Fed up with the tedious software that ...

<https://www.meditab.com/company/about-us.html>

Similarity 34%

Title:Meditab India

Since then, thanks to the simple desire to make providers' lives easier, Meditab has grown to offer software for more than 40 different medical specialties ...

[https://cl.linkedin.com/company/meditabsoftwareindiapvt.ltd.](https://cl.linkedin.com/company/meditabsoftwareindiapvt.ltd)

Similarity 7%

Title:Awards and Certifications

Intelligent Medical Software Named Gold Health IT Quality Solution by Quest Diagnostics. Quest Diagnostics created the Health IT Quality Solutions Program to ...

<https://www.meditab.com/company/awards-and-certifications.html>

Check By:  Duplichecker



GUJARAT TECHNOLOGICAL UNIVERSITY
(Established under Gujarat Act No. 20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી
(ગાજરાત અધિનિયમ ક્રમાંક: ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 23/01/2023 TO 29/01/2023

DEPARTMENT: computer engineering SEM: 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

23/01/2023

-> Attended HR Orientation and session on organizational goal of touch typing.

24/01/2023

-> Attended Session on HIPPA Act, Cyber Security , US Healthcare , workplace ethics, company and department overview.

25/01/2023

-> Learned about gmail and gsuite shortcuts and attended session on ownership and values, email etiquette and - one floor walk around.

27/01/2023

-> Introduction about various department of the company.



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TOTAL HOURS: 32

SIGNATURE OF STUDENT

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EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Signature of officer-in-charge
of Dept. / Section / Plant

Date:

Date: 27/1/23

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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 30/01/2023 TO 05/02/2023

DEPARTMENT: computer engineering **SEM:** 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

30/01/2023

-> Session on web application where we have learned about OSI Architecture and DNS.

31/01/2023

-> Session on how browser works.

01/02/2023

-> Session on html where we have learned about basic tags of html.

02/02/2023

-> revision of html

03/02/2023

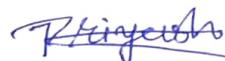
-> Learning CSS - box model , positioning, and basics of css



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TOTAL HOURS: - - - - - 40 - - - - -



SIGNATURE OF STUDENT

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EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor


Signature of officer-in-charge
of Dept. / Section / Plant

Date:

Date: 03/02/2023

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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 06/02/2023 TO 12/02/2023

DEPARTMENT: Computer Engineering SEM: 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

06/02/2023

-> Session on CSS.

07/02/2023

-> Learn about CSS Flex and CSS Grid.

08/02/2023

-> Basic website using CSS Flex and Grid.

09/02/2023

-> Continue on website using CSS Flex and Grid.

10/02/2023

-> CSS responsive and CSS animation.



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TOTAL HOURS - - - - - 40 - - - - -

SIGNATURE OF STUDENT

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Signature of Faculty Mentor

Signature of officer-in-charge
of Dept. / Section / Plant

Date:

Date: 10/02/2023

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Annexure I

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 13/02/2023 TO 19/02/2023

DEPARTMENT: Computer Engineering **SEM:** 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

13/02/2023

-> Session on JavaScript where we discuss various topics.

14/02/2023

-> Learned about JavaScript variables, closure, map, filter, find, sort, reduce, foreach, promise, callback, operators, data-types and conditional statements.

15/02/2023

-> Learn about JavaScript DOM manipulation.

16/02/2023

-> Revision of JavaScript.

17/02/2023

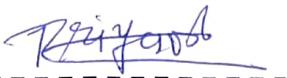
-> Create basic website using JavaScript.



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TOTAL HOURS: - - - 40 - - - -


SIGNATURE OF STUDENT

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Signature of Faculty Mentor


Signature of officer-in-charge
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Date:

Date: 17/10/2023

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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 20/02/2023 **TO** 26/02/2023

DEPARTMENT: Computer Engineering **SEM:** 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

20/02/2023

-> Learned about Git and Github.

21/02/2023

-> Learned about OOP Concepts.

22/02/2023

-> Learn about basics of SQL.

23/02/2023

-> Achieving typing speed of 50 WPM.

24/02/2023

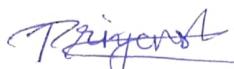
-> Revision of Html, CSS and JavaScript.



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TOTAL HOURS: - - - - - 40 - - - - -



SIGNATURE OF STUDENT

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Signature of Faculty Mentor


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Date:

Date: 24/02/2023

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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 27/02/23 TO 05/03/2023

DEPARTMENT: Computer Engineering SEM: 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

27/02/2023

-> we attended sessions about basics of .Net and API.

28/02/2023

-> We use .Net framework to make API that we will be use in the live project in future.

01/03/2023

-> We were supposed to study about .net and its frameworks.

02/03/2023

-> We learnt about how .net and postgres can be connected and used as a source to create an API.

03/03/2023

-> get session on Postgres and why we use that particular database.



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TOTAL HOURS: 40



SIGNATURE OF STUDENT

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Date:

Date: 03/03/2023

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Annexure I

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 06/03/2023 TO 12/03/2023

DEPARTMENT: Computer engineering SEM: 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

06/03/2023

-> Created Tables for Patient's Demographics Module in DrCatalyst EHR.

07/03/2023

-> Performed Optimization on table using Normal Forms.

08/03/2023

-> Queries About getting required details.

09/03/2023

-> Created Function and Procedures to get and store data to the database.

10/03/2023

-> Worked On SQL optimization and ER Diagram of Demographics Module.



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TOTAL HOURS: 40

SIGNATURE OF STUDENT

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Date:

Date: 10/03/2023

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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 13/03/2023 TO 19/03/2023

DEPARTMENT: Computer engineering SEM: 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

13/03/2023

-> Learned about Joins and their types in details.

14/03/2023

-> Assigned some tasks based on joins and normal forms.

15/03/2023

-> Learned and practicing some sample datasets in Dbeaver.

16/03/2023

-> Assigned some new tasks on function and joins.

17/03/2023

-> Working on same task that it assigned yesterday.



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TOTAL HOURS: - - - - - 40 - - - - -



SIGNATURE OF STUDENT

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Date:

Date: 10/03/2023

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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 20/03/2023 TO 26/03/2023

DEPARTMENT: Computer engineering **SEM:** 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

20/03/2023

-> Session on some front-end topics and their needs.

21/03/2023

-> Assigned task of create the DrCatalyst home page.

22/03/2023

-> Working on the same task.

23/03/2023

-> Session on some advanced topics and working on the front-end task.

24/03/2023

-> Task was submitted and the review session was conducted.



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TOTAL HOURS: - - - - - 40 - - - - -

SIGNATURE OF STUDENT

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EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Signature of officer-in-charge
of Dept. / Section / Plant

Date:

Date: 24/03/2023

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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 27/03/2023 TO 02/04/2023

DEPARTMENT: Computer engineering **SEM:** 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

27/03/2023

-> Session on some advanced JavaScript concepts.

28/03/2023

-> Assigned task of adding the JavaScript to the DrCatalyst home page.

29/03/2023

-> Working on the same task and the team meeting was conducted.

30/03/2023

-> Working on the task and create some new pages in the DrCatalyst website.

31/03/2023

-> Task was submitted and the new assignment was assigned.



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TOTAL HOURS: - - - - - 40 - - - - -



SIGNATURE OF STUDENT

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Signature of Faculty Mentor


Signature of officer-in-charge
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Date:

Date: 31/03/2023

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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 03/04/2023 TO 09/04/2023

DEPARTMENT: Computer engineering **SEM:** 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

03/04/2023

-> Review session was conducted and the other task was assigned.

04/04/2023

-> A session on APIs and their needs was arranged.

05/04/2023

-> Working on task and created an API that is related to the patient's website.

06/04/2023

-> Working on the same task and create some advanced things into the APIs.

07/04/2023

-> A task was submitted, and practice on some new topics was started.



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TOTAL HOURS: - - - - - 40 - - - - -



SIGNATURE OF STUDENT

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Signature of Faculty Mentor


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Date:

Date: 07/04/2023

- ★ Grading of Work, for trainee may be given depending upon your judgement about
his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.



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Annexure 1

Enrollment no: 200170107508

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Savani Priyansh Sureshbhai

DIARY OF THE WEEK: Dt: 10/04/2023 TO 16/04/2023

DEPARTMENT: Computer engineering **SEM:** 8

NAME OF THE ORGANISATION: Meditab Software Inc.

NAME OF THE PLANT/SECTION/DEPARTMENT: Web IMS

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Manish Lakhara

DESCRIPTION OF THE WORK DONE IN BRIEF

10/04/2023

-> Review session was conducted and the team meeting was arranged.

11/04/2023

-> A session on Billing system was taken by the team-lead and gives some hints for effective billing system.

12/04/2023

-> A task was assigned that is based on billing system in the website.

13/04/2023

-> Working on the same task and other features was added that is effectively produce better result in the payment service.

14/04/2023

-> An integration of the billing system in the main website was started and team meeting was arranged.



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TOTAL HOURS: - - - 40 - - - -

Rajyash

SIGNATURE OF STUDENT

- ★ The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Mani
Signature of officer-in-charge
of Dept. / Section / Plant

Date:

Date: 14/04/2023

- ★ Grading of Work, for trainee may be given depending upon your judgement about his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.





Leave Policy

Holidays

Today

February 2023

2

Total Hours:

08:34

Worked Hours:

08:04

Break Hours:

00:30

My Leave Summary

Request Extra Day(s)

Pending Work Hours(s)

Total Hours:

08:34

In Out Log:

08:00

Daily log Hours:

08:00

Operation

Time

Operation

Time

08:21

Operation

Time

4/27/23, 4:16 PM

Screenshot 2023-04-27 160848.png



Employee Attendance

Leave Policy	Holidays	Today	⊕
April 27th, 2023, Thu			

March 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
5	6	7	8	9	10	11
08:14 02:50 AM - 06:47 PM (Verified)	08:13 10:57 AM - 07:35 PM (Verified)					
12	13	14	15	16	17	18
08:05 11:29 AM - 06:52 PM (Verified)	08:09 10:32 AM - 07:05 PM (Verified)	08:28 09:50 AM - 08:49 PM (Verified)	08:22 09:55 AM - 08:54 PM (Verified)	08:17 10:02 AM - 08:44 PM (Verified)	08:04 10:11 AM - 08:55 PM (Verified)	
19	20	21	22	23	24	25
08:18 10:56 AM - 08:24 PM (Verified)	08:07 10:57 AM - 06:47 PM (Verified)	08:12 09:56 AM - 08:47 PM (Verified)	08:11 10:01 AM - 08:40 PM (Verified)	08:04 10:11 AM - 08:55 PM (Verified)		
26	27	28	29	30	31	
08:54 10:52 AM - 08:14 PM (Verified)	08:13 11:02 AM - 08:24 PM (Verified)	08:59 10:53 AM - 08:30 PM (Verified)	09:05 10:03 AM - 08:39 PM (Verified)	08:12 10:05 AM - 08:52 PM (Verified)		

Total Hours:
08:34Worked Hours:
08:04Break Hours:
00:30Pending Work Hours:
08:00Request Extra Day(s):
**08:22
09:59 AM - 08:45 PM
(Verified)**Request OOTM/FITI:
**08:22
09:59 AM - 08:45 PM
(Verified)**My Leave Summary:
**08:07
10:05 AM - 08:45 PM
(Verified)**Pending Work Hours:
**09:16
09:51 AM - 08:56 PM
(Verified)**Daily Log Hours:
08:00

In Out Log:

Operation

Time



Leave Policy Holidays Today Todays

April 2023

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Total Hours:

2

Worked Hours:

08:34

Break Hours:

08:04

Daily Log Hours:

00:30

In Out Log:

Home

Operation



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Annexure 2

Feedback Form by Industry expert

Student Name: Savani Priyansh Sureshbhai

Date: 25/4/2023

Work Supervisor: Manish Lakhara

Title: WebIMS

Company/Organization: Meditab Software Inc

Enrollment No: 200170107508

Internship Address: 219/A, Kalasagar Mall, Sattadhar Cross Road Ghatlodiya, Ahmedabad, Gujarat 380061

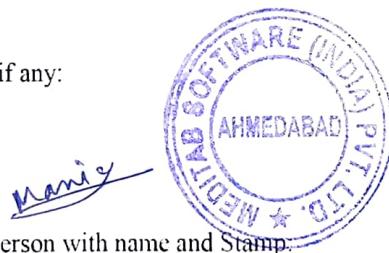
Dates of Internship: From 23/01/2023 to 21/04/2023

Please evaluate your intern by indicating the frequency with which you observed the following behaviors:

Parameters	Needs improvement	Satisfactory	Good	Excellent
Shows interest in work and his/her initiatives		✓		
Produces high quality work and accepts responsibility		✓		
Uses technical knowledge and expertise		✓		
Analyzes problems effectively			✓	
Communicates well and writes effectively		✓		

Overall performance of student intern: (Needs improvement/ Satisfactory/Good/Excellent):

Additional comments, if any:



Signature of Industry person with name and Stamp.

Signature of the Faculty Mentor