



OneCare

All Your Health Needs in One Place.



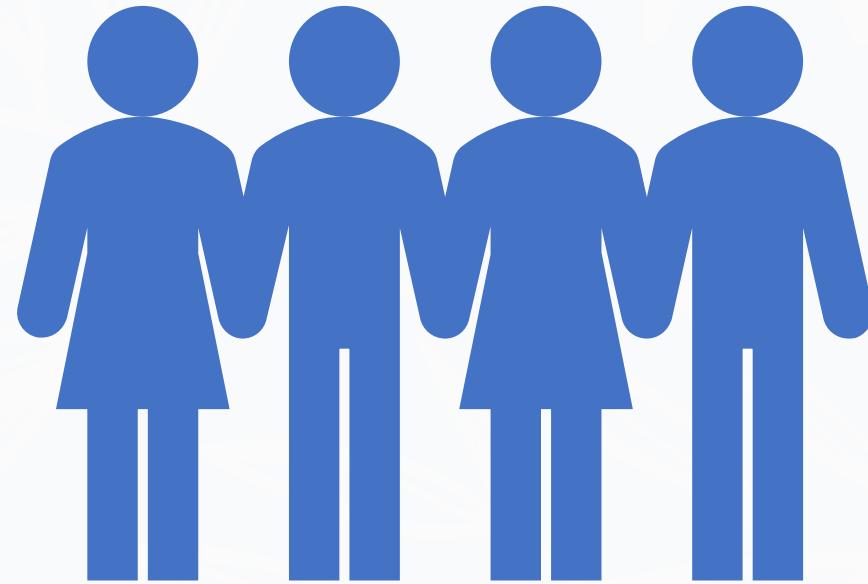
OneCare

All Your Health Needs in One Place

OneCare, an innovative all-in-one healthcare web app designed to revolutionize the way you manage your health and wellness.

CS 691 CAPSTONE PROJECT

- Team Member Roles and Responsibilities
- Improvements made from Professor Feedback
- Project Description
- Team working agreement
- Personas (at least 3)
- MVP
- Technologies
- Algorithms
- Diagrams
- Architecture Diagrams, Context Diagram, ER Diagrams, Sequence
- Sprint 2 Recap
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- Sprint Summary
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- Metrics
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- Burndown Charts
- Retrospective
- Project Demo (current sprint)
- Github link



TEAM MEMBERS **AND ROLES**

TEAM MEMBERS AND ROLES



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PROJECT DESCRIPTION

OneCare is a comprehensive healthcare management application designed for both patients and doctors. It serves as a unified platform that facilitates seamless communication, appointment scheduling, and the organization of medical records, predict medicines based on symptoms , medication reminders to stay on track with their treatment plans, while stress management tools, such as recorded meditation sessions, promote mental well-being. OneCare aims to simplify healthcare management and promote healthier lifestyles. Our app, OneCare Health, leverages Firebase's real-time database and authentication features to provide a seamless and secure experience for users. It enables patients to manage their health records, appointments, and prescriptions, while healthcare providers can efficiently access patient information and communicate with their patients.

Improvements made from Professor's Feedback



Alignment with Conceptual Diagram: Incorporated distinct layers such as Presentation Layer and Business Layer into the architecture diagram to align it more closely with the Conceptual Diagram.



Transition to Story Points: Transition from using Date Completed as a metric to utilizing Story Points for tracking Stories



Inclusion of Story Point Estimates: Included Story Point estimates for each story before the commencement of sprints in Jira in the Burndown chart.



Team Working Agreement

TEAM WORKING AGREEMENT

Participation:

- ✓ Prompt Attendance: Attend meetings on time.
- ✓ Regular Attendance: Notify earlier if unable to attend.

Communication:

- ✓ Zoom Meetings: Weekly, meaningful discussions with cameras on.
- ✓ Whatsapp Group: Quick communication & urgent matters.
- ✓ OneDrive: Sharing final deliverables & collaborative editing.
- ✓ Database Management: Efficient organization of project data.

Work Distribution:

- ✓ Equal Division: Fair allocation of tasks.
- ✓ Deadline Responsibility: Complete tasks on time.
- ✓ Collaboration: Seek help if needed.

Meetings:

- ✓ Virtual Meetings: Every Tuesday & Wednesday via Zoom.
- ✓ Facilitation: Productive discussions & progress tracking.
- ✓ Meeting Minutes: Document for progress monitoring.

Personas



Rachel Smith

**Age:**

30 years

Occupation:

Marketing Associate

Family Status:

Married with one child

Goals:

- Lose weight and improve overall health through calorie control and dietary adjustments.
- Manage her type 2 diabetes through a balanced diet tailored to her medical condition.
- Find a sustainable way to incorporate healthy eating habits into her busy lifestyle as a working mother.

Challenges:

- Juggling work responsibilities and parenting duties, leaving little time for meal planning and preparation.
- Struggling to resist unhealthy food cravings and make healthier choices while managing diabetes and trying to lose weight.
- Feeling overwhelmed by the complexity of counting calories and balancing nutritional requirements with diabetes management.

Preferred Features:

- Easy-to-use calorie counter
- Diabetic-friendly recipes and meal plans
- Customizable meal planning tools
- Visual progress tracking
- Integration with online community support

Interests:

- Health and nutrition
- Trying new recipes
- Using technology for health management

“

Rachel is committed to making positive changes to her lifestyle to improve her health and well-being. She understands the importance of managing her diabetes and controlling her weight, and is motivated to find practical solutions that help her achieve her health goals despite her busy schedule. She is willing to invest time and effort into using tools and resources that support her journey to better health.

Sarah Rodriguez

**Age:**

35 years

Occupation:

Registered Nurse

Family Status:

Married with two children (Daniel, age 5, and Sophia, age 3)

Goals:

- Ensure that both her children receive all necessary vaccinations according to the recommended schedule.
- Manage Daniel's diet effectively as he has been diagnosed with celiac disease, requiring a gluten-free diet.
- Stay organized and informed about upcoming vaccine appointments, dietary restrictions, and meal planning to support her family's health.

Challenges:

- Balancing work responsibilities as a nurse with the demands of managing her children's health needs.
- Keeping track of Daniel's gluten-free diet requirements while ensuring the whole family's meals remain balanced and enjoyable.
- Finding reliable resources and guidance to navigate both vaccination schedules and dietary restrictions simultaneously.

Preferred Features:

- Vaccine reminders, comprehensive vaccine info, and history tracking
- Gluten-free recipe database with nutritional info and customization
- Seamless integration of vaccine and dietary management
- Intuitive user interface for easy navigation and management

Interests:

- Health and nutrition research
- Cooking for dietary needs
- Efficient family health management

“

Sarah is deeply committed to providing the best possible care for her children and is proactive about seeking out resources and tools to support their health needs. She is dedicated to staying organized and informed, willing to invest time and effort into finding and utilizing effective solutions that streamline the management of both vaccination schedules and dietary restrictions.

Alex Chen



Age: 40 years

Occupation: Marketing Manager

Family Status: Single

Interests:

- Cooking and dining out
- Using tech for health
- Outdoor activities like hiking, cycling

Goals:

- Effectively manage his hypertension through medication adherence and dietary changes.
- Streamline the process of refilling prescriptions and tracking medication intake to avoid missed doses.
- Find a balance between managing his health needs and maintaining his busy work schedule.

Challenges:

- Remembering to take his medications regularly amidst a hectic work and social life.
- Navigating dietary changes to reduce sodium intake and improve heart health while still enjoying meals.
- Feeling overwhelmed by the complexity of managing both prescription medications and dietary restrictions simultaneously.

Preferred Features:

- Prescription reminders and refill management
- Access to low-sodium recipes and meal plans
- Mobile app with user-friendly interfaces
- Health tracking for blood pressure monitoring
- Personalization for medication schedules and dietary preferences

“

Alex is committed to prioritizing his health despite his busy schedule and is motivated to find practical solutions that help him manage his prescriptions and dietary needs effectively. He recognizes the importance of proactive health management and is willing to invest time and effort into utilizing tools and resources that support his well-being.



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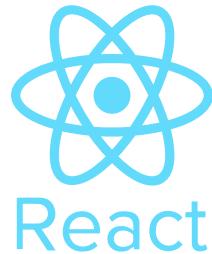
Minimum Viable Product (MVP)

-  Homepage
-  Appointment Booking And Management
-  Medication Reminder
-  Lab Test Booking
-  Meditation Session
-  Search doctor
-  Health Resources
-  Symptoms Tracker

Technologies



Visual Studio Code



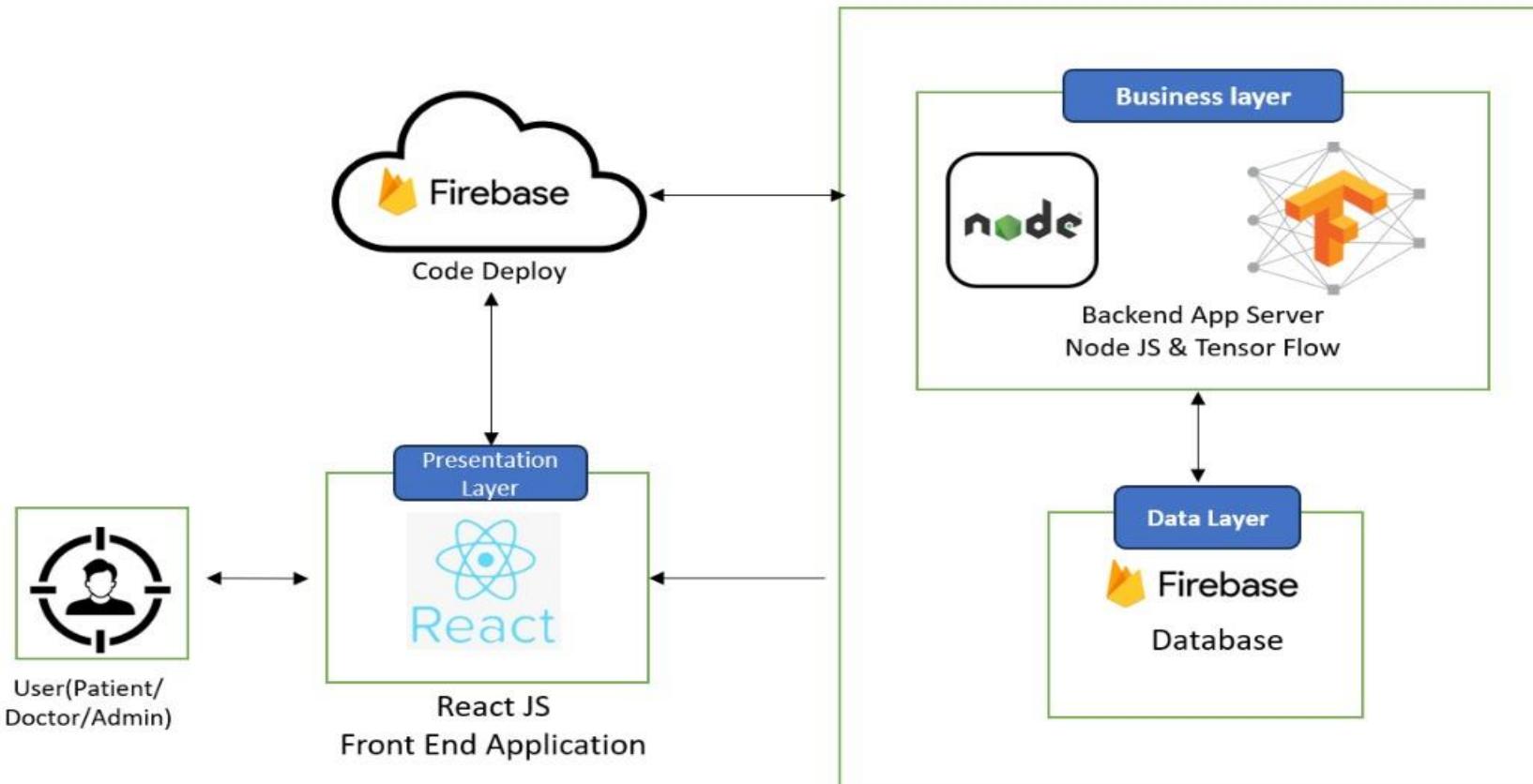
Jira



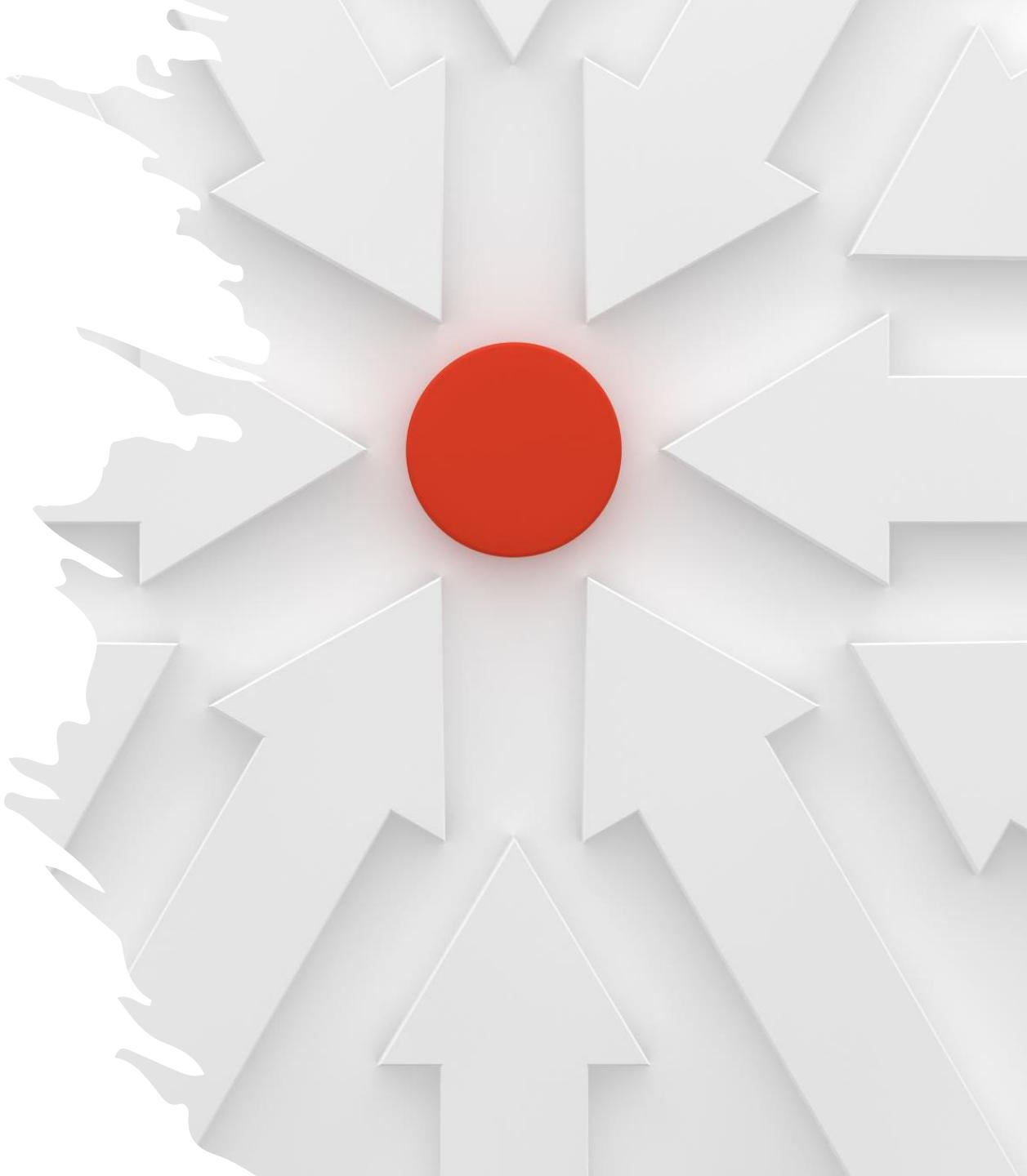
ARCHITECTURE DIAGRAM

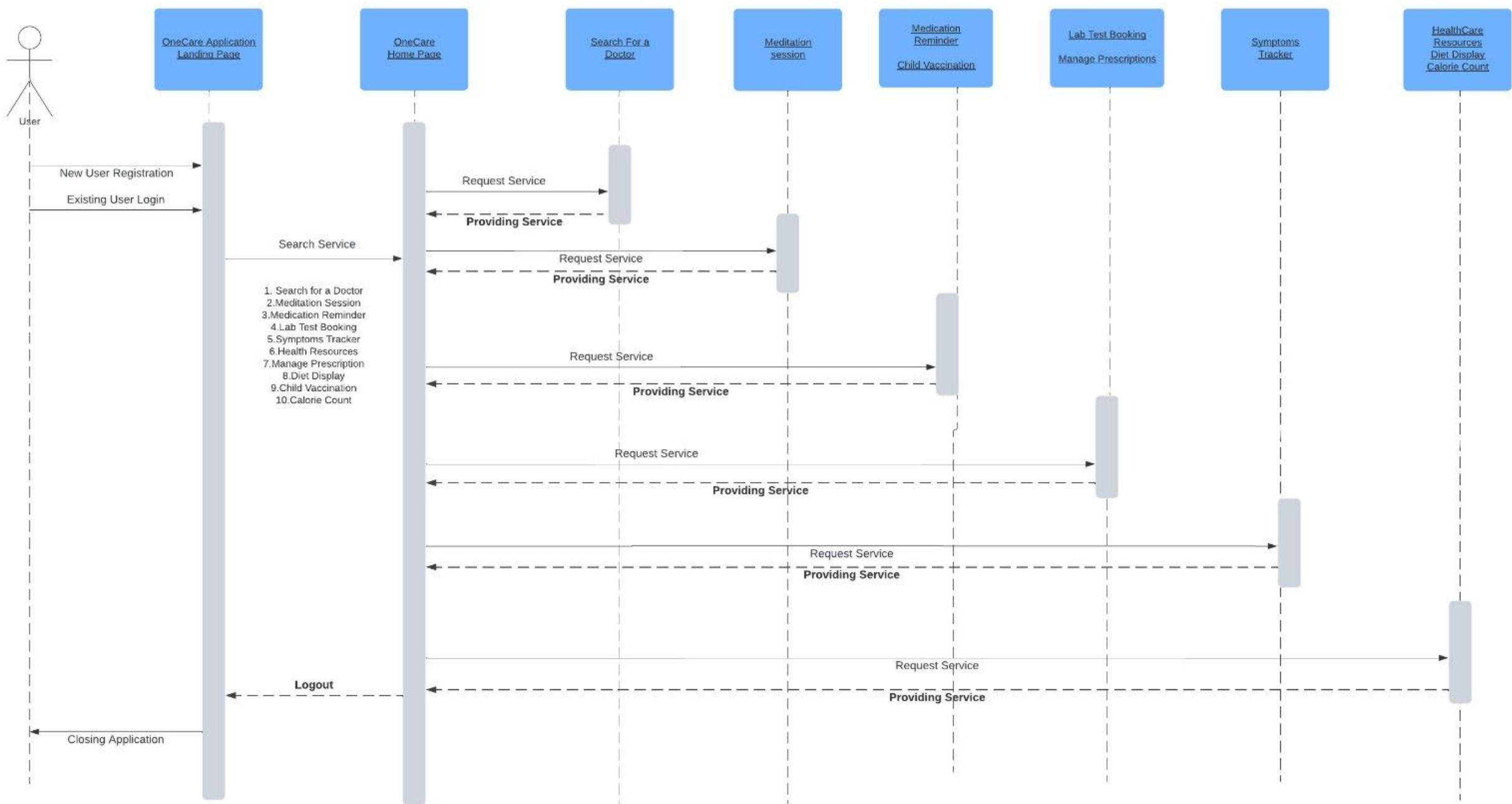


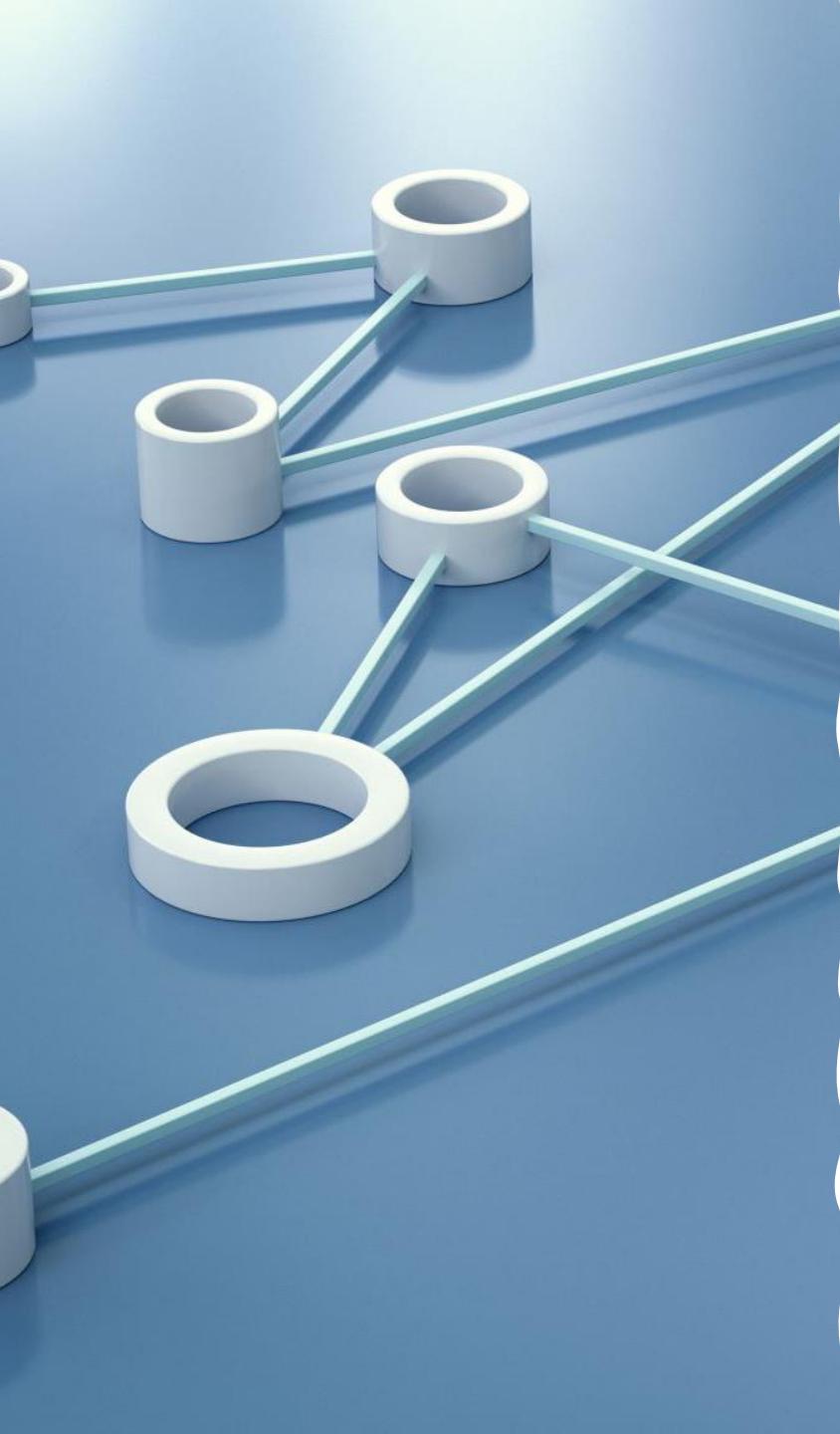
Conceptual Architecture Diagram



SEQUENCE DIAGRAM

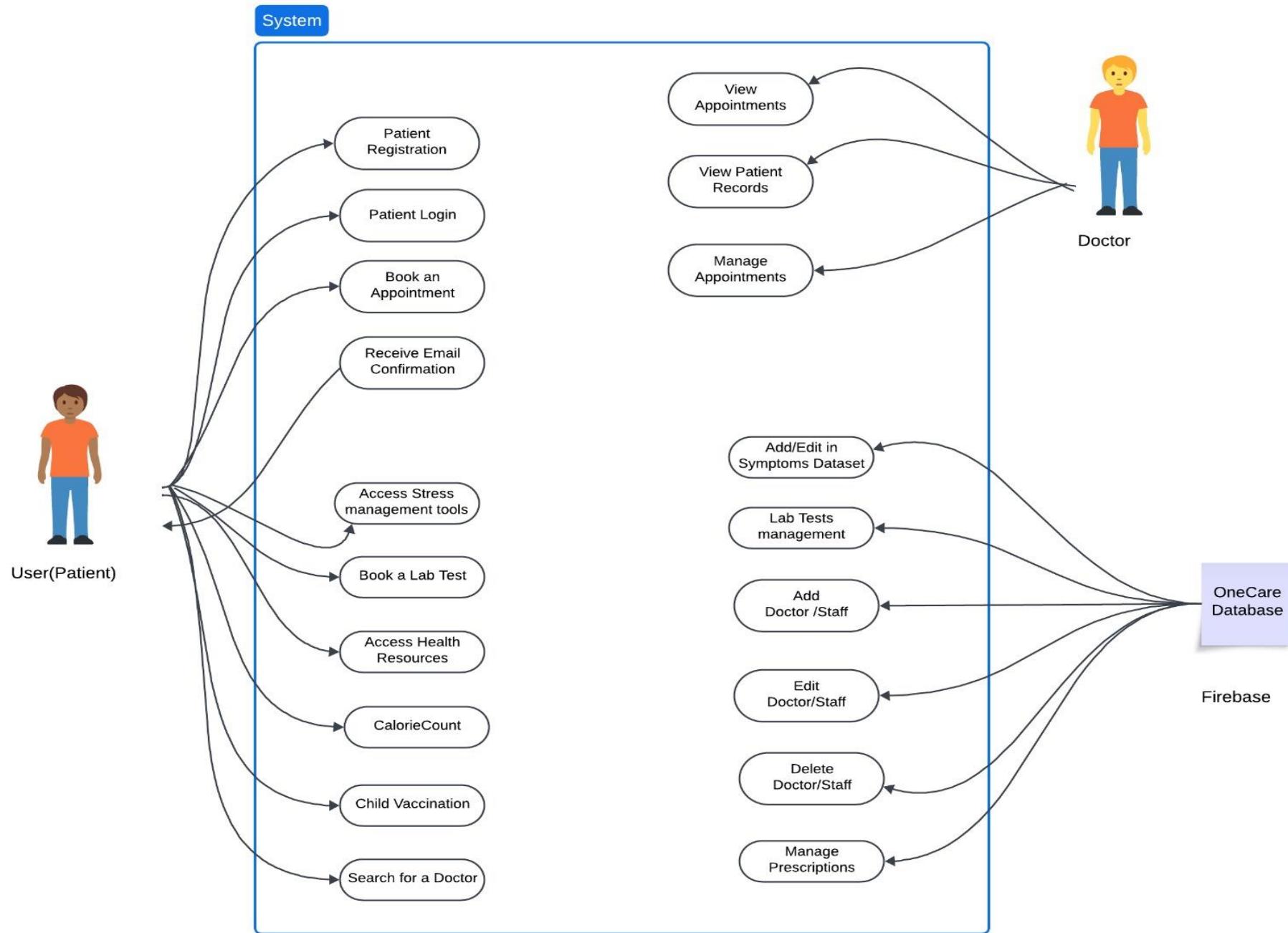






USE CASE DIAGRAM





Sprint 2 Recap



1. Symptoms Tracker

Implementation of Symptom tracker functionality



2. Medication Reminder

Developed and deployed Medication Reminder feature



3. Search Doctor

Designed and implemented Search doctor based on location and speciality



4. Lab Test Booking

Created a user-friendly lab test booking functionality

ACCEPTANCE CRITERIA AND USER STORIES

ACCEPTANCE CRITERIA AND USER STORIES

Acceptance Criteria			
Acceptance Criteria	ID-18	<p>"As a patient with a specific medical condition, I want a diet plan tailored to my health needs, So that I can improve my health and manage my condition effectively."</p> <p>Scenario: User requests for diet plan generation. Given a user had a specific medical condition and When the user logs into their account on the OneCare Health app and navigates to the "Diet Display" section, and the user input any medical condition (e.g., High Cholesterol) from drop down, Then the app should process the search criteria and should provide a diet plan which includes food for Breakfast, Snack1, Lunch, Snack2, Dinner, Dessert specifically tailored to manage my medical condition, considering my dietary restrictions and preferences.</p>	Diet Display
Acceptance Criteria	ID-19	<p>"As a user of OneCare Health app, I want a feature in the prescription management system that enables me to easily upload a photo or scan of my prescription document, So that I can quickly and securely share it with my healthcare provider for processing and fulfillment."</p> <p>Scenario: User adds and view saved Prescriptions. Given a user wants to add their prescription, When the user logs into their account on the OneCare Health app and navigates to the "Manage Prescriptions" section, And selects the option to add a new prescription document or image, Then the app should allow user to upload a new prescription and user should be able to view saved prescription later.</p>	Manage Prescriptions
Acceptance Criteria	ID-20	<p>"As a user of the OneCare Health app and a busy parent concerned about my child's health, I want to use the vaccination tracker & reminder feature to keep track of my child's vaccination history for upcoming doses, So that I can ensure my child receives timely vaccinations and maintains optimal health."</p> <p>Scenario: User Schedules a vaccination and add child. Given a user needs to schedule a Vaccination for their child, When the user logs into their account on the OneCare Health app and navigates to the "Child Vaccination" section, and selects the option to schedule a new vaccination, Then the app should allow the user to add details such as Parent name, child name, child gender and child age, any prescription to schedule that particular vaccination.</p>	Child vaccination

ACCEPTANCE CRITERIA AND USER STORIES

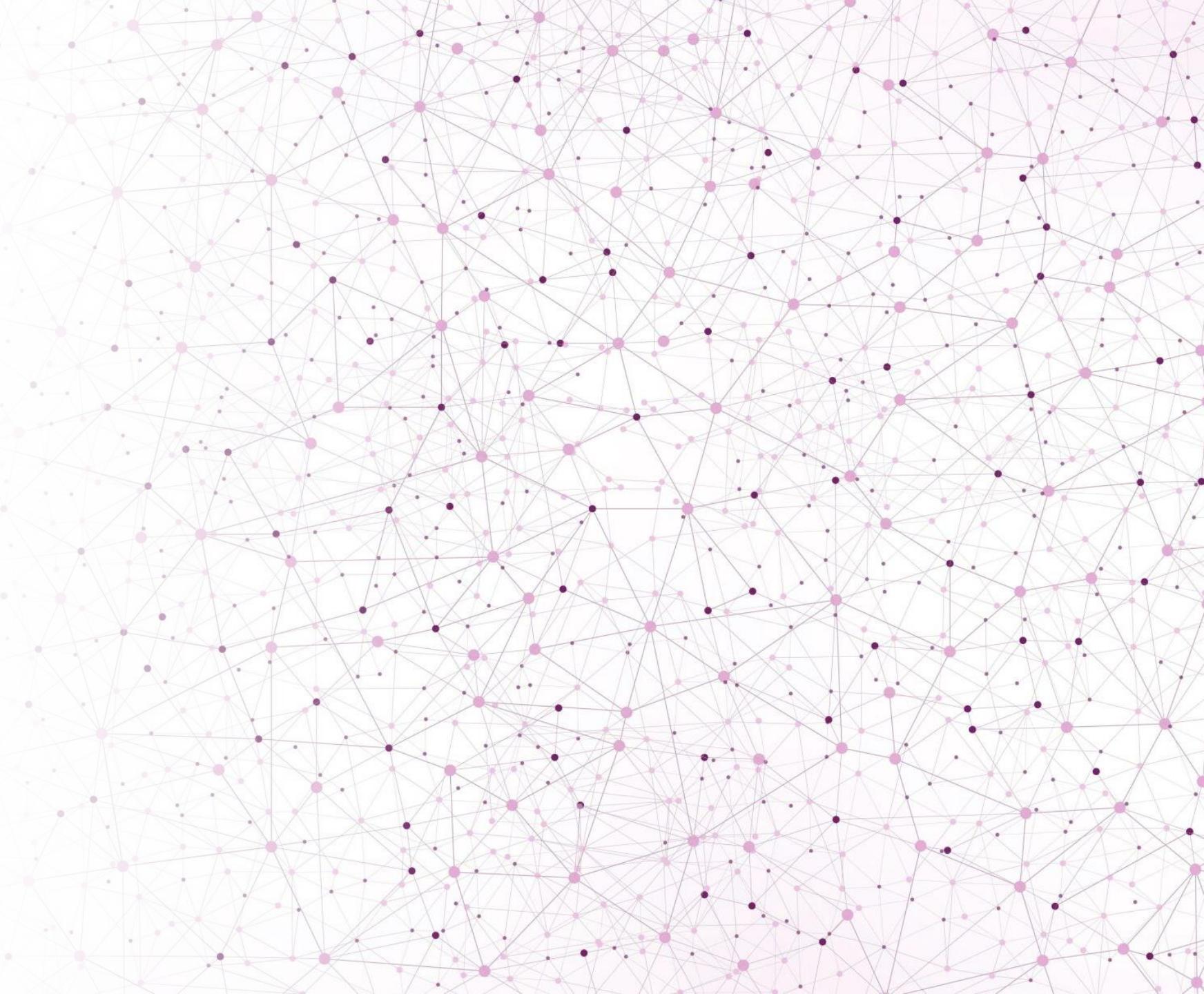
Acceptance Criteria			
		"As a user of the OneCare Health app, I want to know the nutritional facts of food, So that I can improve my health and manage my health."	
Acceptance Criteria	ID-21	<p>Scenario: User requests Nutritional values in food.</p> <p>Given a user wants to know the nutritions is food,</p> <p>When the user logs into their account on the OneCare Health app and navigates to the "CalorieCount" section,</p> <p>And input the food details of which they want to know,</p> <p>Then the app should be able to read and display the nutritional values in that food which includes Total Calories, Protein, Fat, Magnesium,Calcium etc.</p>	Calorie Counter
Acceptance Criteria	ID-22	<p>"As a user of the OneCare Health app, I want to know the upcoming appointments, So that I can view and manage my appointments easily."</p> <p>Scenario: User can manage upcoming appointments.</p> <p>Given a user wants to know the upcoming appointments,</p> <p>When the user logs into their account on the OneCare Health app and navigates to the "Manage my appointments" section,</p> <p>Then the app should display all the upcoming appointments so that user can view and manage easily.</p>	Manage My Appointments

TESTCASES

Test Cases

Acceptance criteria ID	Test Case ID	Unit to test	Assumptions	Test Data	Steps to be executed	Expected Results
ID-18	TC-19	Search for a diet Plan	User able to find the Diet Display section and access it.	username:admin@gmail.com pwd:admin	Home>Login>Diet Display	The application should show the Diet plan as per the users medical condition with the input given using dropdown.
ID-19	TC-20	Upload and View Prescription	User able to find the Manage Prescriptions section and access it.	username:admin@gmail.com pwd:admin	Home>Login>Manage Prescriptions	The application should allow the user to upload a prescription and provide a option to view the saved prescriptions.
ID-20	TC-21	Add a new Vaccination Schedule for their Child	User able to find the Child vaccination section and access it.	username:admin@gmail.com pwd:admin	Home>Login>Child Vaccination	The application should allow the user to schedule a vaccination and add a child details including Parent name and a prescription for that vaccination from doctor.
ID-21	TC-22	View Nutritional Facts	User able to find the Calorie Count section and access it.	username:admin@gmail.com pwd:admin	Home>Login>CalorieCount	The application should allow the user to give the input of what ingredient nutritional facts they want to know and display the nutritional values.
ID-22	TC-23	View and manage appointments	User able to find the manage my appointments section and access it.	username:admin@gmail.com pwd:admin	Home>Login>Manage My Appointments	The application should display all the upcoming appointments.

Sprint Summary



Sprint 1 Vs Sprint 2 Vs Sprint 3

- | | | |
|---|---|---|
| <ul style="list-style-type: none">• Login –Doctor and Patient• Signup –Doctor and Patient• Forgot Password• Appointment booking• HomePage | <ul style="list-style-type: none">• Medication Reminder• Meditation session• Symptoms tracker• Search doctor• Health Resources• Lab Test Booking | <ul style="list-style-type: none">• Diet Display• Calorie Counter• Child Vaccine• Manage appointments• Prescription Upload and Management |
|---|---|---|

Stories
Completed and
Stories Not
Completed



Stories Completed and Stories Not Completed

Story	Status	Story Points	Date Completed
As a patient, I want a feature in the prescription management system that enables me to easily upload a photo or scan of my prescription document, so I can quickly and securely share it with my healthcare provider for processing and fulfillment.	Done	8	11/04/2024
As a patient seeking to improve my health through dietary changes, I want to generate a diet plan based on my specific medical condition.	Done	5	29/03/2024
As a busy parent concerned about my child's health, I want to use the vaccination tracker & reminder feature to keep track of my child's vaccination history for upcoming doses.	Done	13	19/04/2024
As a health-conscious user of the OneCare app, I want to calculate the number of calories in a food item quickly and easily.	Done	5	03/04/2024
As a user, I want to be able to view, and manage my upcoming doctor appointments easily.	Done	5	11/04/2024

API usage in the Application

EmailJS

QUOTA REMAINING: 200 EMAILS

Welcome, OneCare Docs Support Sign Out

My Default Template

Content Auto-Reply Attachments Contacts Settings

Subject * Medication Reminder

To Email * {{email}}

From Name OneCare

From Email * Use Default Email Address

Reply To {{reply_to}}

Bcc

Cc

Content *
Hi,
Just a friendly reminder to take your medication: {{medication_name}}. Don't forget to take {{medication dosage}}.
Regards,
OneCare.

Playground Test It Save

This screenshot shows the 'Email Services' section of the EmailJS application. On the left is a sidebar with various icons and links: Email Services, Email Templates (selected), Contacts, Email History, Events, Statistics, Team Members, Account, and Personal Settings. The main area is titled 'My Default Template'. It has tabs for Content, Auto-Reply, Attachments, Contacts, and Settings. The Content tab displays a template for a medication reminder. The template includes fields for Subject (Medication Reminder), To Email ({{email}}), From Name (OneCare), and From Email (with a checkbox for 'Use Default Email Address'). Below these are fields for Reply To ({{reply_to}}), Bcc, and Cc. The template content itself says 'Hi, Just a friendly reminder to take your medication: {{medication_name}}. Don't forget to take {{medication dosage}}. Regards, OneCare.' There are also 'Playground' and 'Test It' buttons at the top right of the template editor.

EmailJS

QUOTA REMAINING: 200 EMAILS

Welcome, OneCare Docs Support Sign Out

Email Services

Add New Service

Gmail Service ID: service_cwwpvmg DEFAULT

This screenshot shows the 'Email Services' section of the EmailJS application. The sidebar on the left is identical to the one in the first screenshot. The main area is titled 'Email Services' and features a 'Gmail' service entry. It shows the 'Service ID: service_cwwpvmg' and a 'DEFAULT' button. There are standard edit, delete, and more options buttons to the right of the service entry. The rest of the page is mostly empty space.

FIGMA

Health comes first

Logout

Find your Doctor and make an Appointment. On-demand healthcare services at your fingertips.

Book Appointment

Manage My Appointments

Explore various features to manage your health needs:

- Symptoms Tracker
- Meditation Sessions
- Medication Reminder
- Search Doctor
- Lab Test Booking
- Health Resources
- Diet Display
- Manage Prescriptions
- Child Vaccination
- Calorie Count

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Back

Prescription Upload

Choose File

SAVE PRESCRIPTION

Saved Prescriptions

Back

NUTRITION & HEALTH

What ingredient would you like to know more about?

Enter an ingredient like "1 cup rice, 10 oz chickpeas, 1 gram chana, 1 whole egg", etc.

Ex: 10gms Chicken

CALCULATE CALORIES

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METRICS

5

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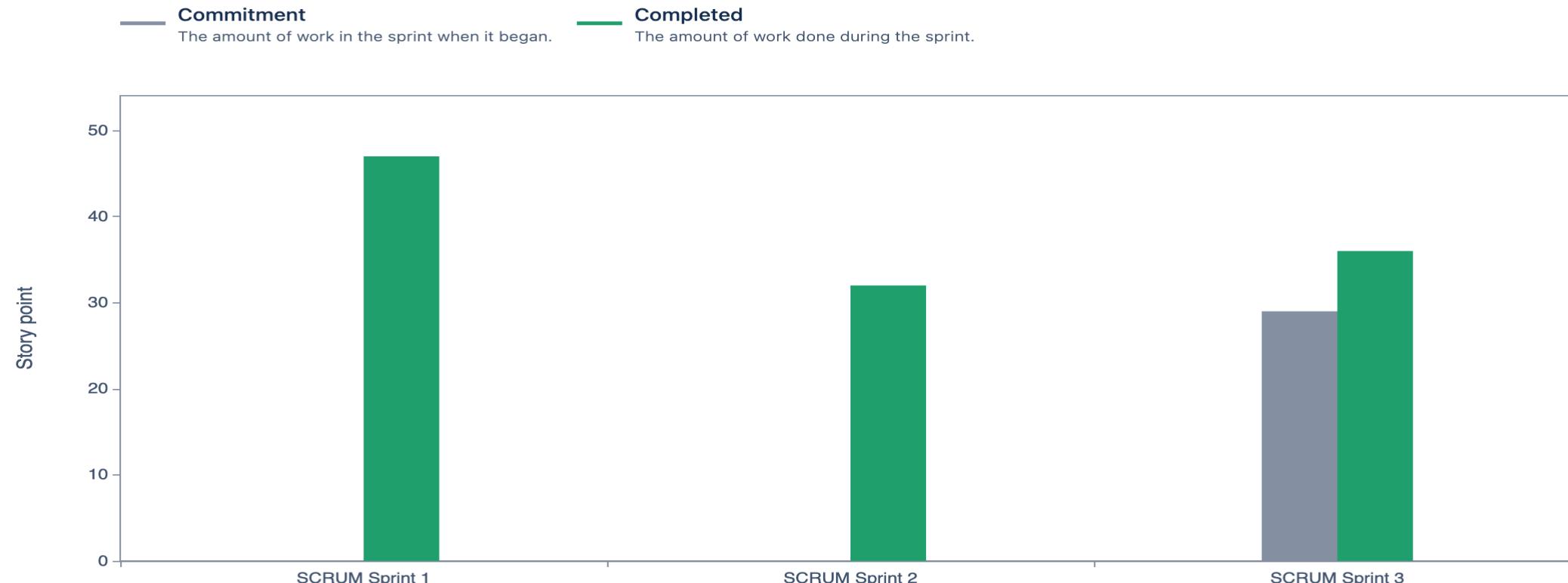
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Team Members Velocity report

Velocity report

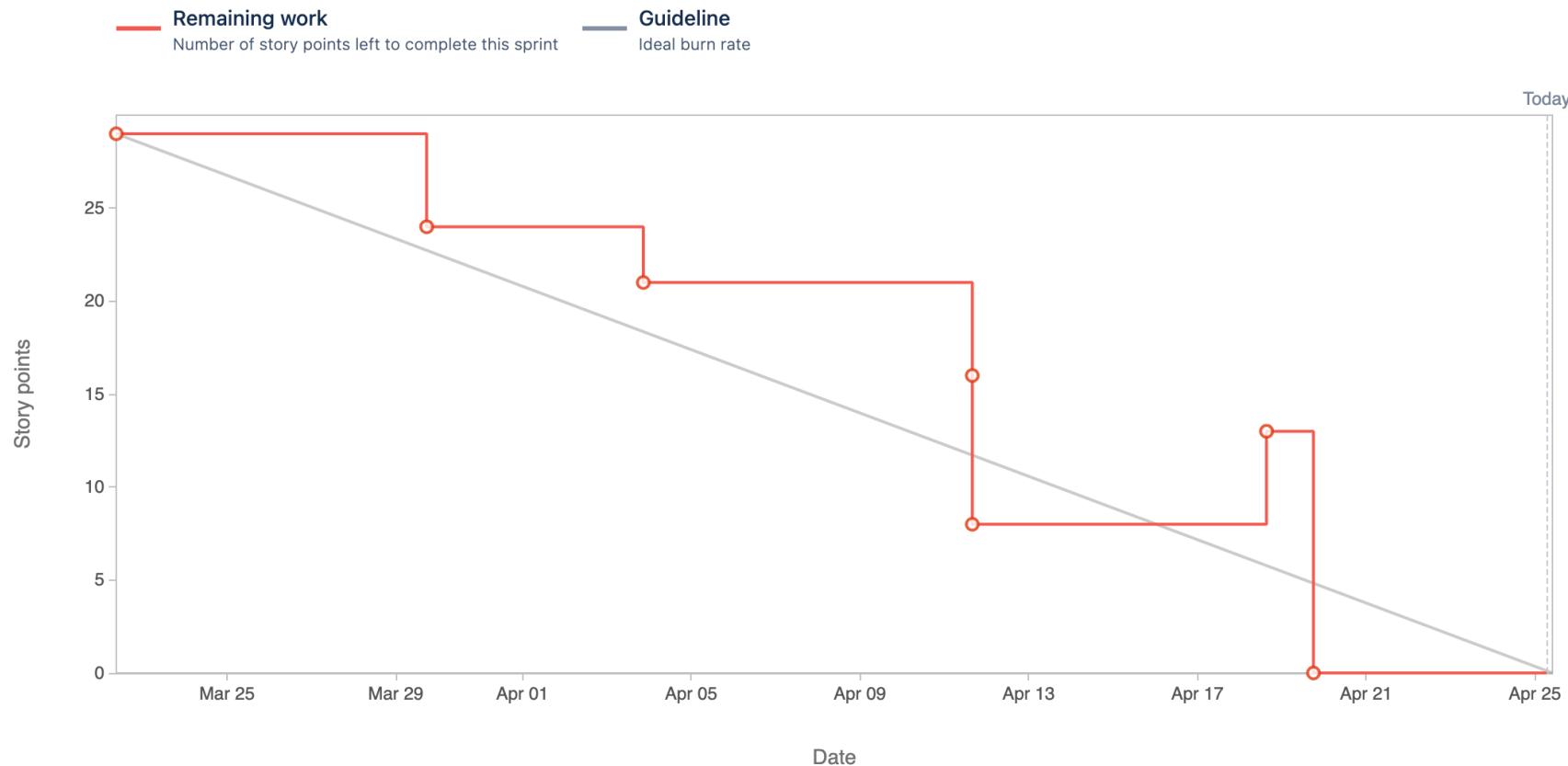
[» How to read this report](#)



Sprint	Commitment	Completed
SCRUM Sprint 1	0	47
SCRUM Sprint 2	0	32
SCRUM Sprint 3	29	36

Sprint Burndown Chart

Date - March 22nd, 2024 - April 25th, 2024



RETROSPECTIVE

What Went Well



Good Collaboration and pairing work done



Communication among team members was excellent. We were all on the same page throughout the sprint.



Deliverables on time.



Incorporated professors feedback

What needs Improvement



Our meetings could have been more focused



some misunderstandings about task priorities, which led to confusion and delays.



Coding standards implementation



Updates on how much the work is done clearly

Next Steps



EXPLORING TIME MANAGEMENT TECHNIQUES AND TOOLS COULD ASSIST TEAM MEMBERS IN PRIORITIZING TASKS AND MANAGING THEIR WORKLOAD MORE EFFECTIVELY



REVIEWING AND RESOLVING ANY ISSUES FOUND LATER



UPDATE DOCUMENTATIONS AS AND WHEN REQUIRED LATER

Project Demo – Sprint 3

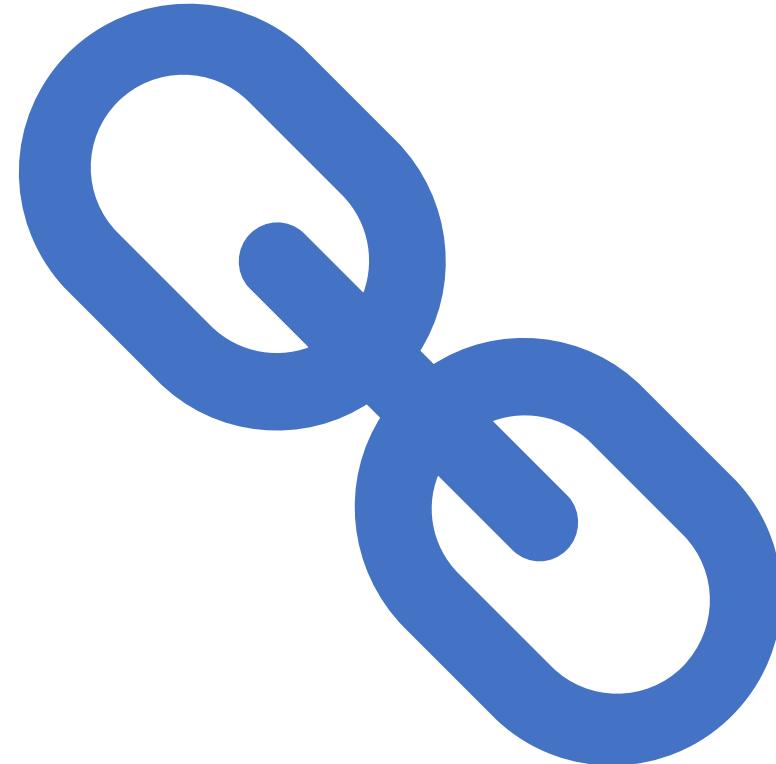
Links

- GitHub source code :

<https://github.com/more-aishwarya/OneCareCapstone>

- Github Wiki page :

<https://github.com/more-aishwarya/OneCare/wiki/OneCare-%E2%80%90-Pace-University-Capstone-Project>



THANK YOU

