

PROMOTING HEALTHY EATING & BALANCED DIET



with Re-Define Me 🍎💪👉💖

*Professor: Henry Wong
Computer Science Project
Course : CS692
Team: 2 (Tiny Coders)*

AGENDA

- Improvements from professor feedback
- Team Members
- Problem Statement
- Project Description
- Personas
- Minimal Viable Product (MVP)
- Technologies
- Architecture Diagram
- Sprint 4 Recap
- Product Backlog
- Sprint Backlog
- Metrics
- Retrospective
- Sprint 6
- Project Demo
- Application Demo
- Git-hub link
- Live Application Demo

MEET THE TEAM

Sathwik Mudenti



BACKEND DEVELOPER 1

Varun Reddy



BACKEND DEVELOPER 2

Naresh Babu Chinta



QA/TESTER

MEET THE TEAM

Dharini Maanasa



FRONTEND DEVELOPER

Brunda Reddy



DBA

PROFESSOR FEEDBACK

PROFESSOR FEEDBACK



- Professor suggested us to update project description.
- Change Architecture diagram
- Change the format of product backlog, User stories and acceptance criteria.
- Change metrics.
- Change the format in which we write our test cases.

IMPROVEMENTS MADE



- We Updated our Project description.
- We Changed our architecture diagram and added other diagrams too.
- We made changes to product backlog and user stories .
- We updated metrics.
- We changed the format of our test cases.



TEAM WORKING AGREEMENT



TEAM AGREEMENT

Team:

- 1)Maanasa Dharini
- 2)Sathwik Mundeti
- 3)Naresh Babu Chinta
- 4)Varun Reddy Duggimpudi
- 5)Brunda Reddy

- All the members of the team are expected attend meetings that happen twice over the week and in case of absence person must contact the teammates for the information.
- Tasks are to be divided between each member of the team and the members of the team should stay committed to the deadlines of the tasks that they are assigned.
- Each member of the team are expected to brainstorm and come up with unique ideas.
- Making sure every teammate providing the equal amount of contribution and providing feedback within the team so that they can perform better.
- In case if any person in the team faces issues the he should contact other persons in the team.

PROBLEM STATEMENT



PROBLEM STATEMENT

A health casual who doesn't particularly care about calorie counting needs a way to get a good idea of how (healthily?) they're eating. Most of the fitness apps focus on tracking calories but they don't include the feature that helps them to know calories from the food that they are eating, and we are trying to solve it using deep learning.

Food classification is a challenging problem due to the large number of food categories. Calorie estimation that helps in calculating number of calories in a recipe. Food classification brings out ingredients in a recipe and maintenance calories that help in calculating number of calories based on age, height and activity and recipe generation that helps us to create recipe from the set of inputs that we give are part of our project.

PROJECT DESCRIPTION



PROJECT DESCRIPTION

Project Title	Promoting healthy eating and balanced diet with Re-Define Me.
Team 2	Tiny Coders.
Brief Description	We are providing the customers a healthy living habits with proper nutrients and workouts with unique features according to the user customization.
How does it help the user	We provide the details of the dietitian, personal trainers, nutrients and the gyms nearby once the user register/subscribe.
Git-hub Link:	https://github.com/DhariniMansi/CS691.wiki.git

PROJECT DESCRIPTION

We want to provide a digital health and wellness web application designed to help users shed the pounds and get active, Nutrition Tracker, Water Tracker, Workout and Weight Tracker.

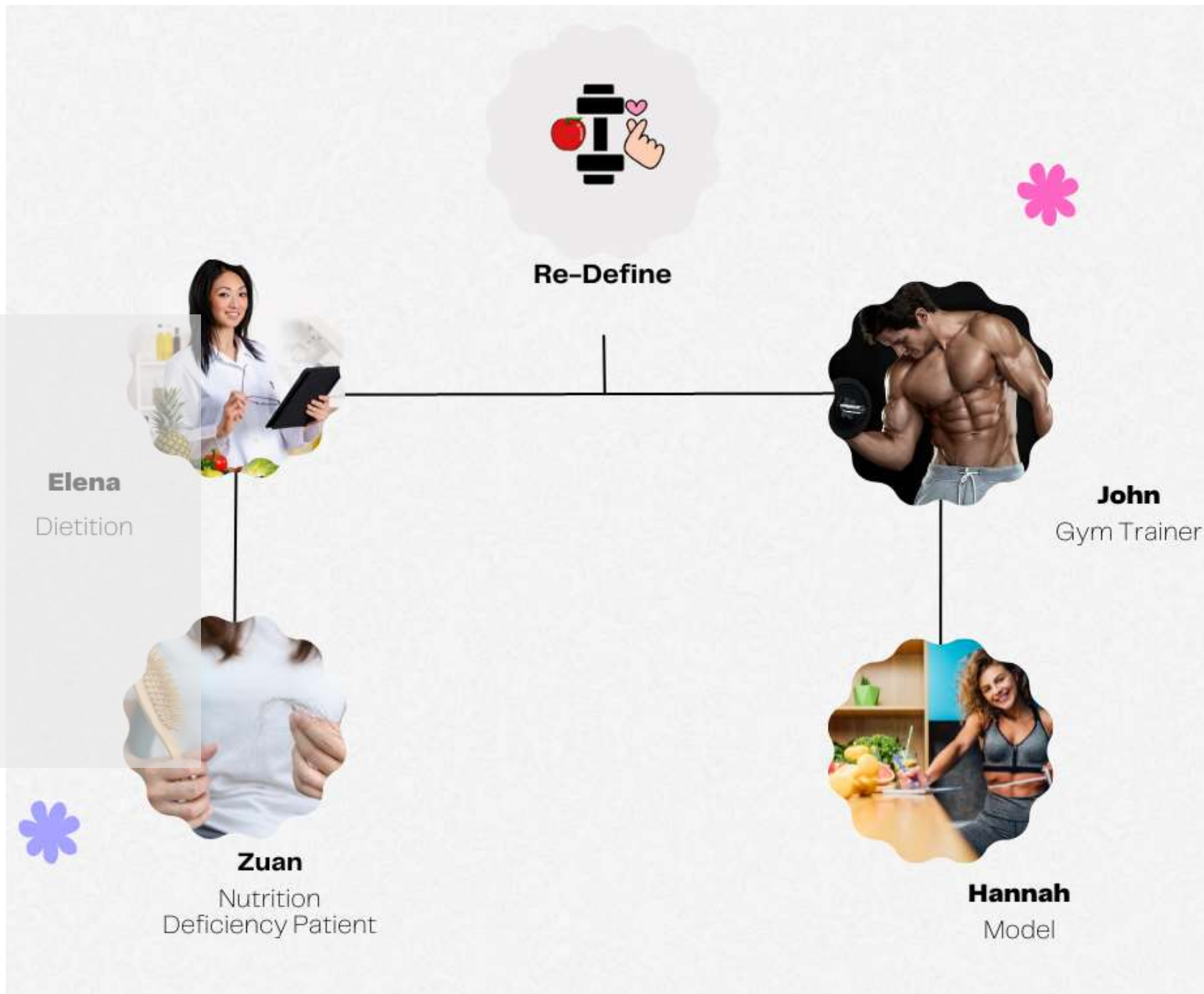
Operating from a freemium model, the platform offers users the opportunity to monitor and track their daily calorie intake, get personalized advice from a team of professionally qualified nutritionists and fitness experts and suggest proper diet flow to the user. Using deep learning techniques, we are trying to implement all these features into our application.

CALORIE ESTIMATION



- A balanced diet is one that contains all the essential elements that the human body needs.
- Carbohydrates, lipids, vitamins, minerals, proteins, fiber and water are all essential components in a well-balanced diet.
- A nutritious, well-balanced diet lowers the risk of disease and enhances general health.
- Formula to estimate calories - $0.24((\text{fat} * 37) + (\text{protein} * 17) + (\text{sodium} * 8) + (\text{sugar} * 17)) = \text{Total calories}.$

PERSONAS



PROFILE

- **Name:** Elena
- **Age:** 32 years
- **Profession:** Dietitian.
- **Graduation:** She graduated with her doctorate from the University of Bridgeport School of Chiropractic.
- **Work Experience:** She has spent over 5 years in the healthcare industry and has a patients for understanding human biomechanics and she is registered with the Commission of Dietetics Registration (CDR).
- **Interests:** She loves long rides, cooking, Athletics and Human Performance.
- **Goals:** Her goal is to collaborate with the top EHR system handling companies to update the EHR system and need to hire few faculty who helps her in maintaining the data of clients.



PROFILE

- **Name:** Zuan
- **Age:** 26 years.
- **Profession:** Software Developer at Apple Inc.
- **Problem:** She is suffering from Nutrition Deficiency, lactose intolerance, has signs of B12 and suffering from dry skin, severe hair fall.
- **Treatment:** medication for malnutrition including supplementation, proper diet, lifestyle and eating disorder.
- **Work Pressure:** It is difficult for Zuan to handle her job and the work pressure there due to hectic schedule.
- **Goals:** As Calcium deficiency can reduce bone strength and lead to osteoporosis, which is characterized by fragile bones Zuan wants to take the supplements with food containing vitamins in order to maintain balance.





PROFILE

- **Name:** Alex.
- **Age:** 29.
- **Profession:** Gym Trainer
- **Fitness Level/Rating:** Best.
- **Experience:** Alex is the head coach of Mighty transformation program. And his passion is to help people change their lives in the simplest and most realistic way. He believe everyone deserves the right to good health and to be happy with themselves inside and out.
- **Interests:** Weights lifting, Dancing, Cycling, Volunteering, Hiking
- **Goals:** Alex is mindful of what his clients eat is just as crucial as their routine, in order to bring in healthy life and health mind. He wants to become established fitness professional. He helps his client to reach their individual goals with unique diet plans.



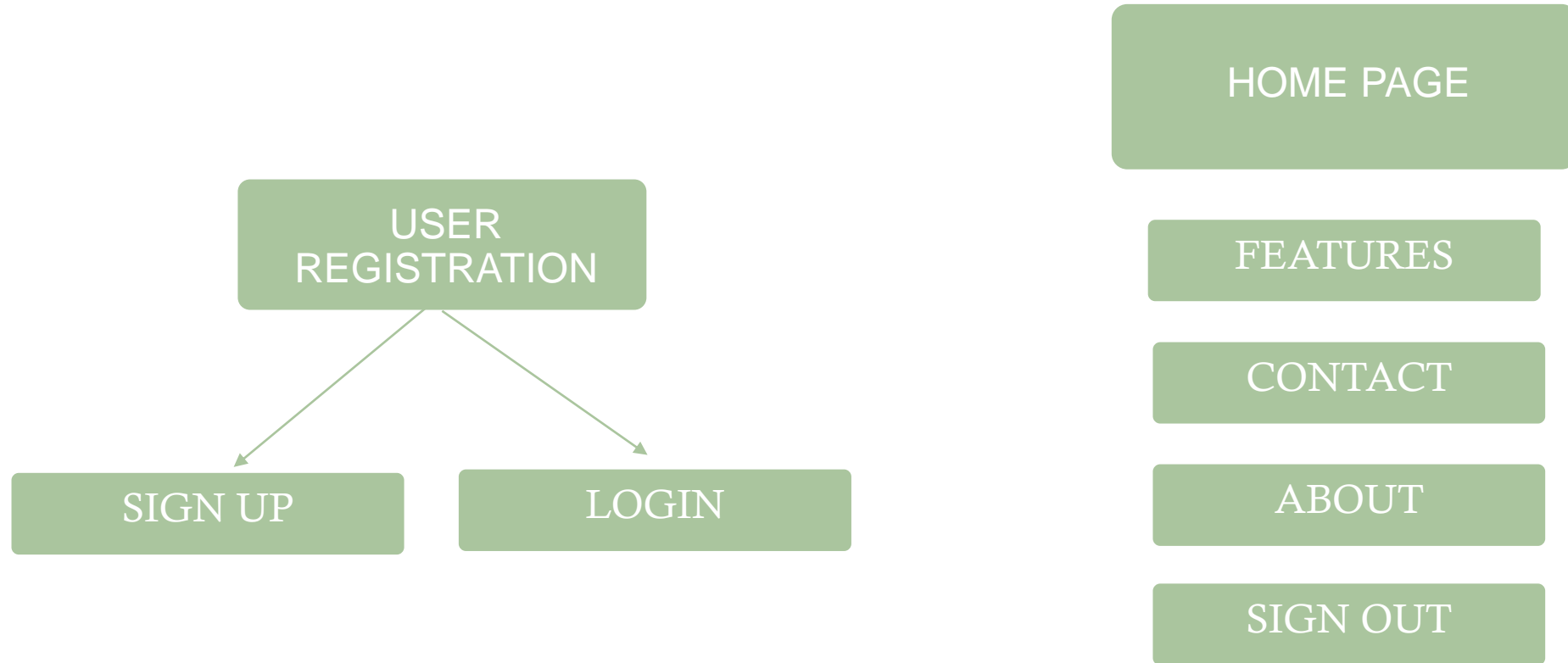
PROFILE:

- **Name:** Hannah.
- **Age:** 23.
- **Education:** She has a high school diploma in Arts and music performing arts, with a course in modelling workshop from New York Fashion Institute.
- **Profession:** Model and Youtuber with 1M subscribers..
- **Interests:** Hannah enjoys exercising, yoga, attending fashion workshops, shopping and painting.
- **Difficulties:** It is difficult for her to find work that pays well, dealing with criticism, and managing her time and finances.
- **Goals:** Being a public figure, Hannah decided to maintain proper health along with a healthy and nutrition diet. She wants to be a role model in her pursuing career.

MINIMUM VIABLE PRODUCT



MVP: We have implemented following features as a part of our MVP.



- Display all the features on the home screen of the Application
- Implement a particular feature called Maintenance Calorie Calculator using API.

TECHNOLOGIES

Front-End



Backend/Server



Database



Testing



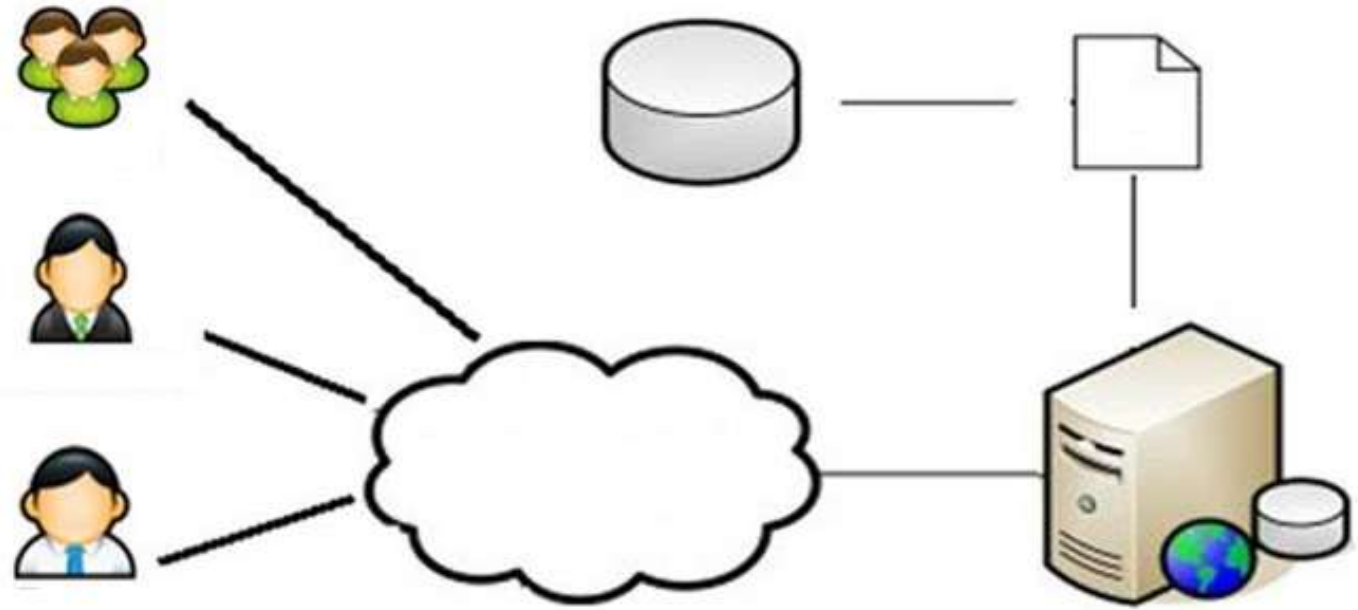
API



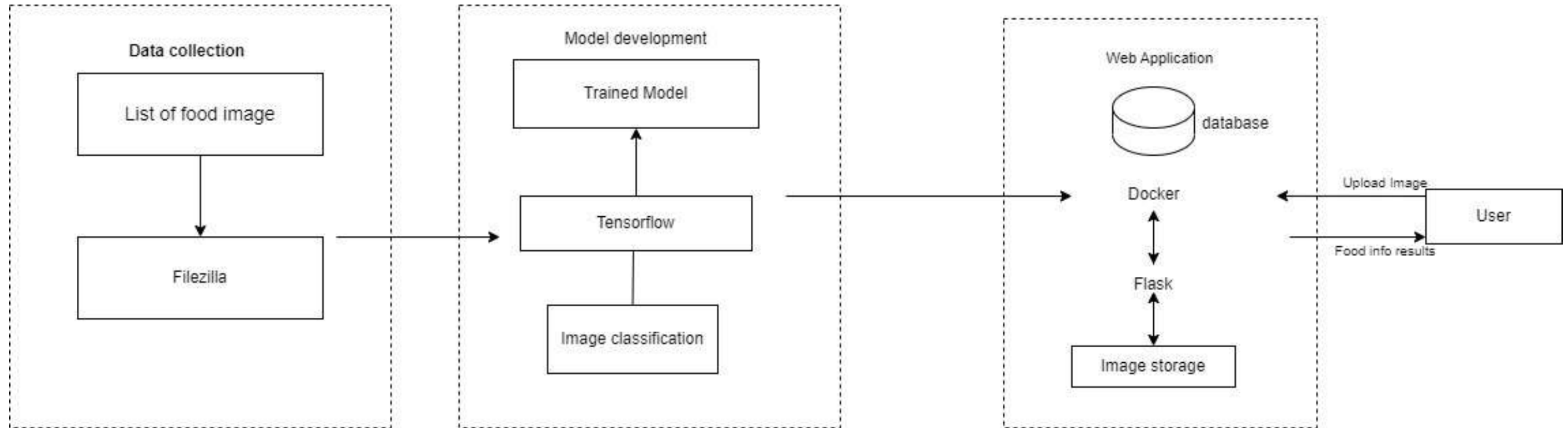
Tools



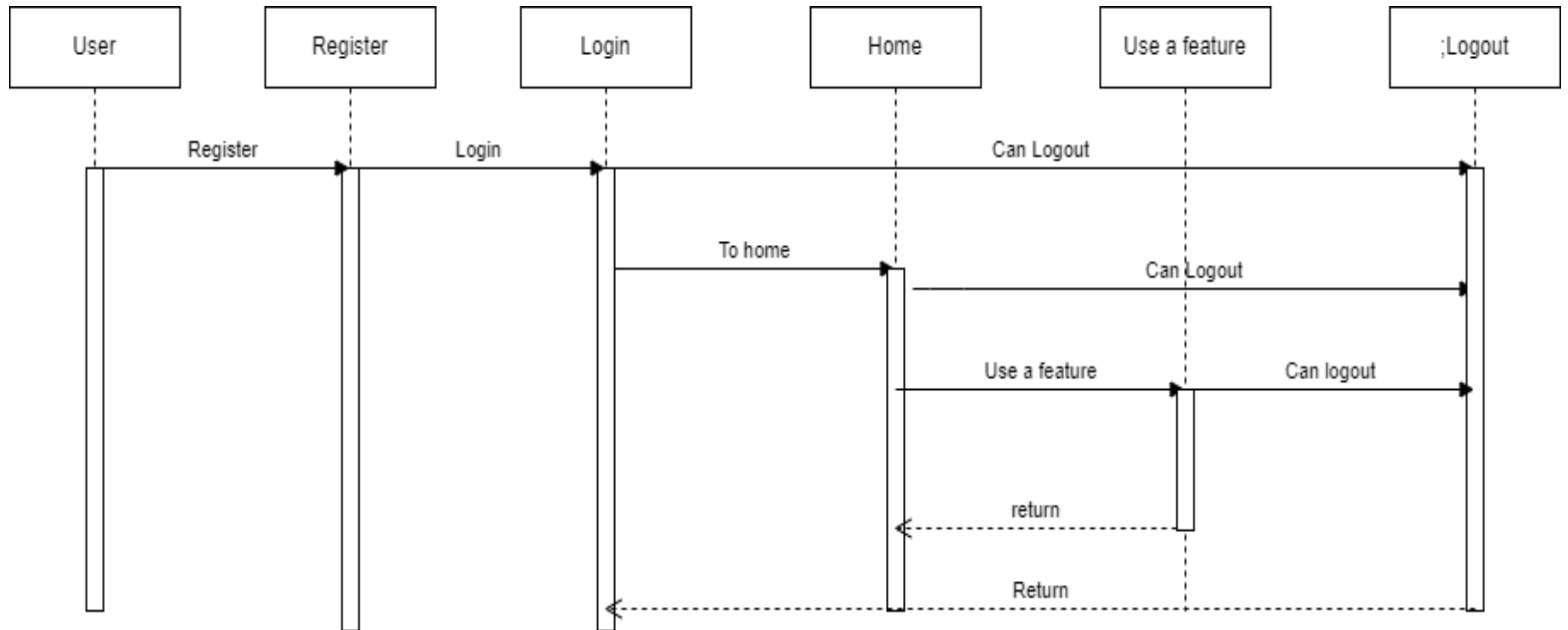
DIAGRAMS



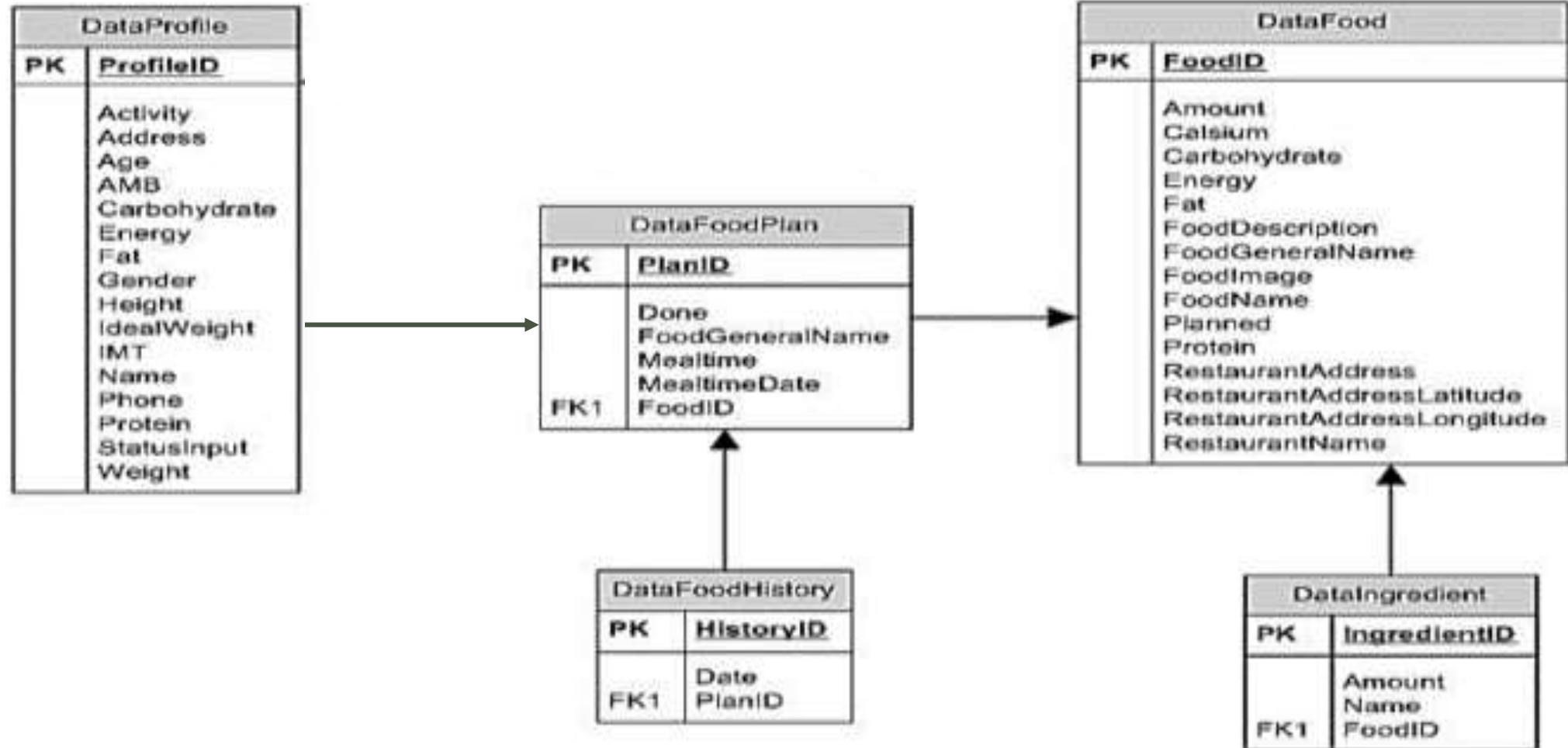
ARCHITECTURAL DIAGRAM



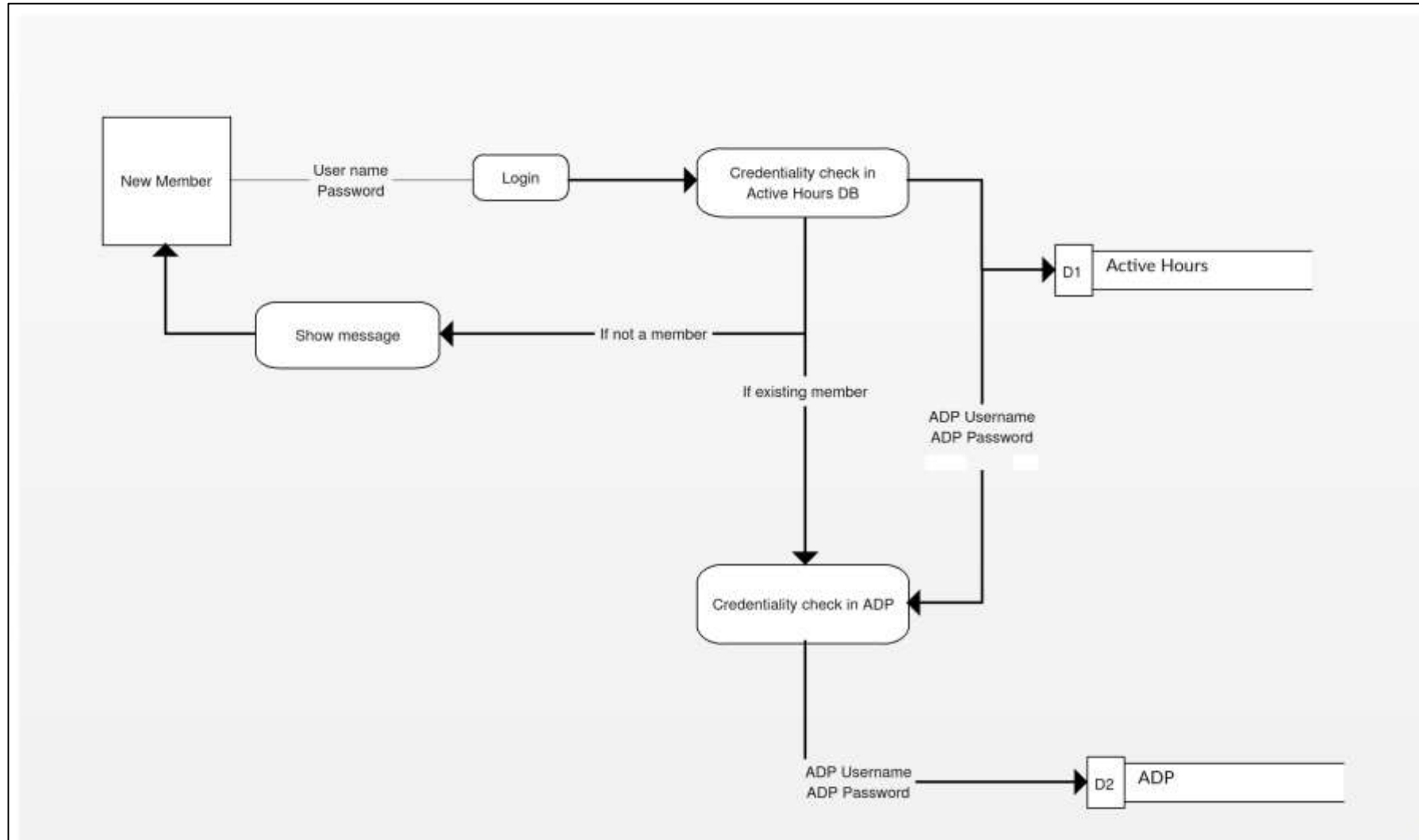
SEQUENTIAL DIAGRAM



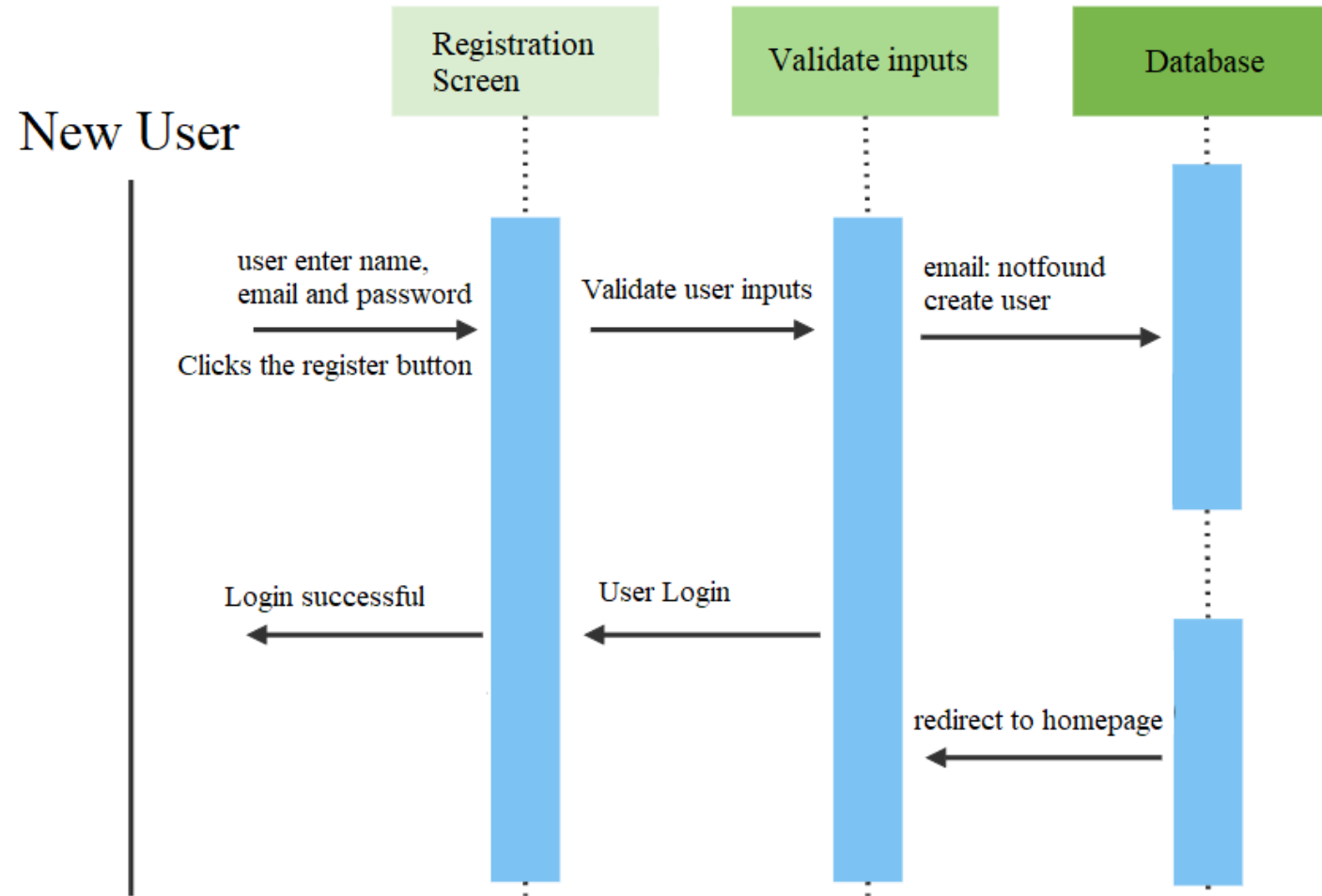
CLASS DIAGRAM



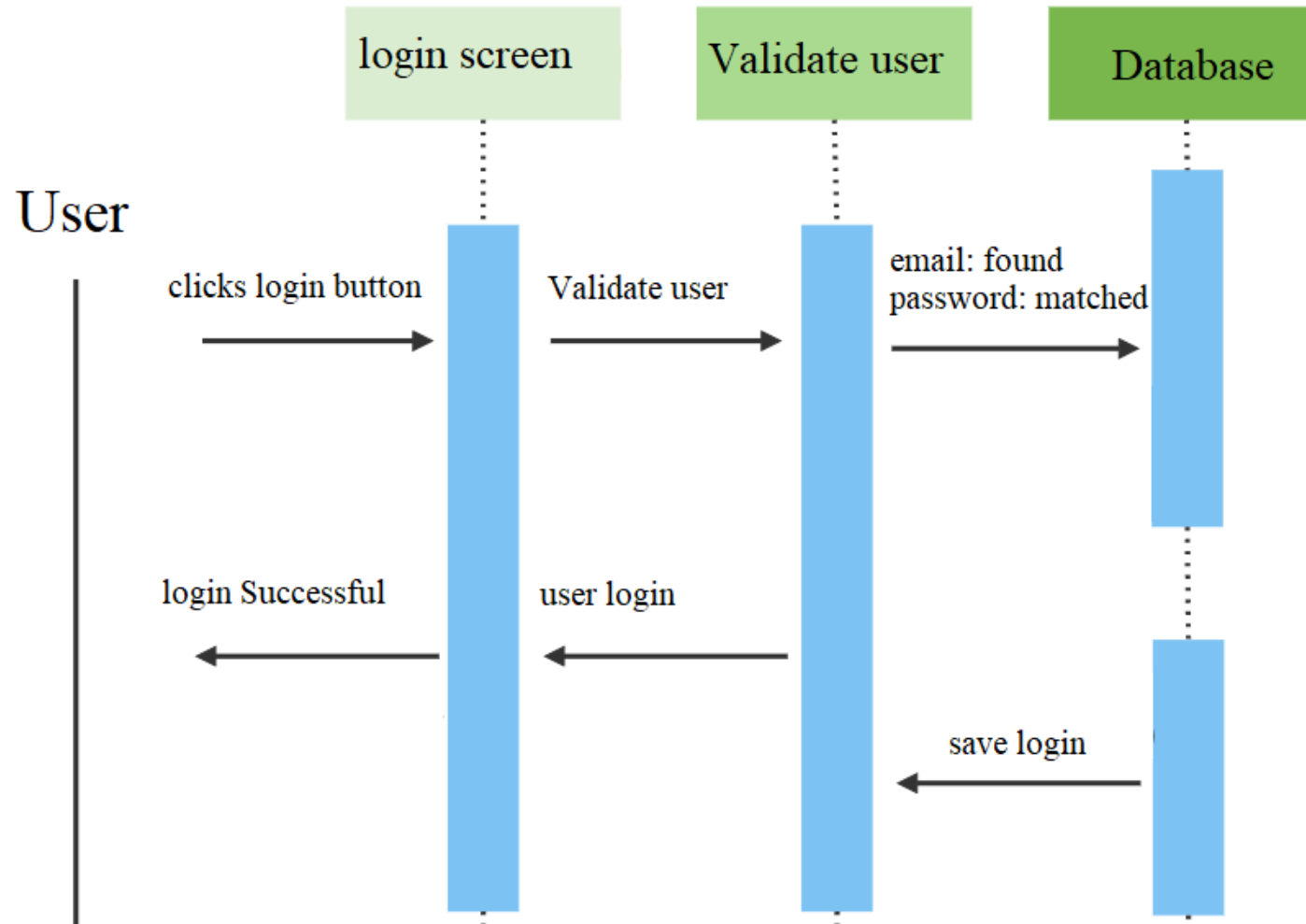
DATA FLOW DIAGRAM



USER SEQUENCE DIAGRAM FOR NEW USER



USER SEQUENCE DIAGRAM FOR EXISTING USER



SPRINT 4 RECAP



SPRINT 4 RECAP



Working on the
tech paper.



Created a
Sign/Login
Page.



Added features
for the
Application

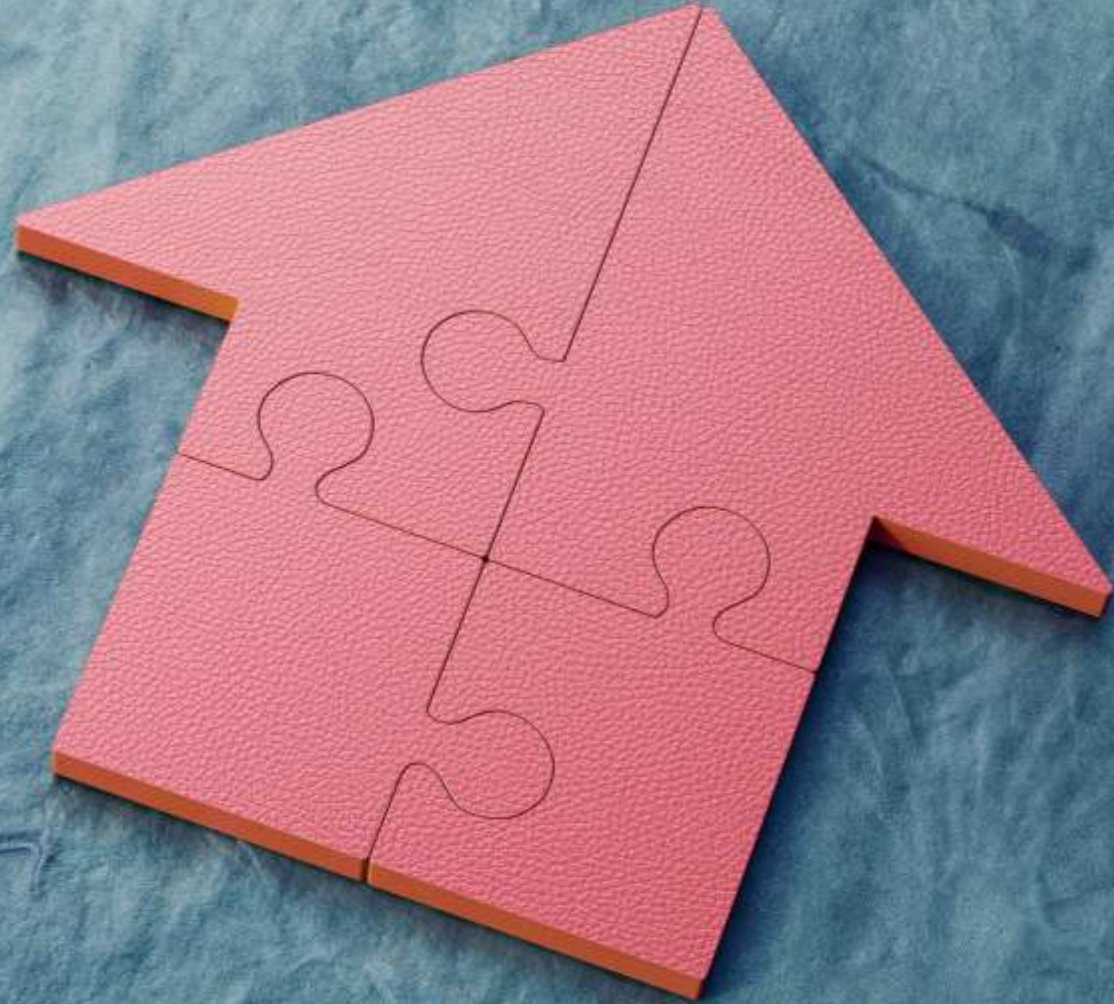


Worked on
more user
stories



Design backend &
working on
Database.

PRODUCT BACKLOG



Sprint5 backlog

Key	Issue Type	Name	Story Point
SAT-11	Story	As a new user I want to Navigate through home page, features,about and find contact information.	3
SAT-12	Story	As a New user I should be able to scroll through the website and see all the features in it.	5
SAT-13	Story	As a user I should be able to share my information by writing name,goals and contact and submit the information	3
SAT-14	Story	User can Log-out from the webpage by pressing logout button	3
SAT-18	Task	Research on deep learning Algorithms	5

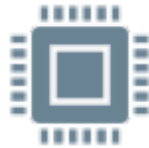
STORIES PLANNED FOR SPRINT 5



Working on the
tech paper.



Add more
features to the
application



Working on the
Application
Documentation

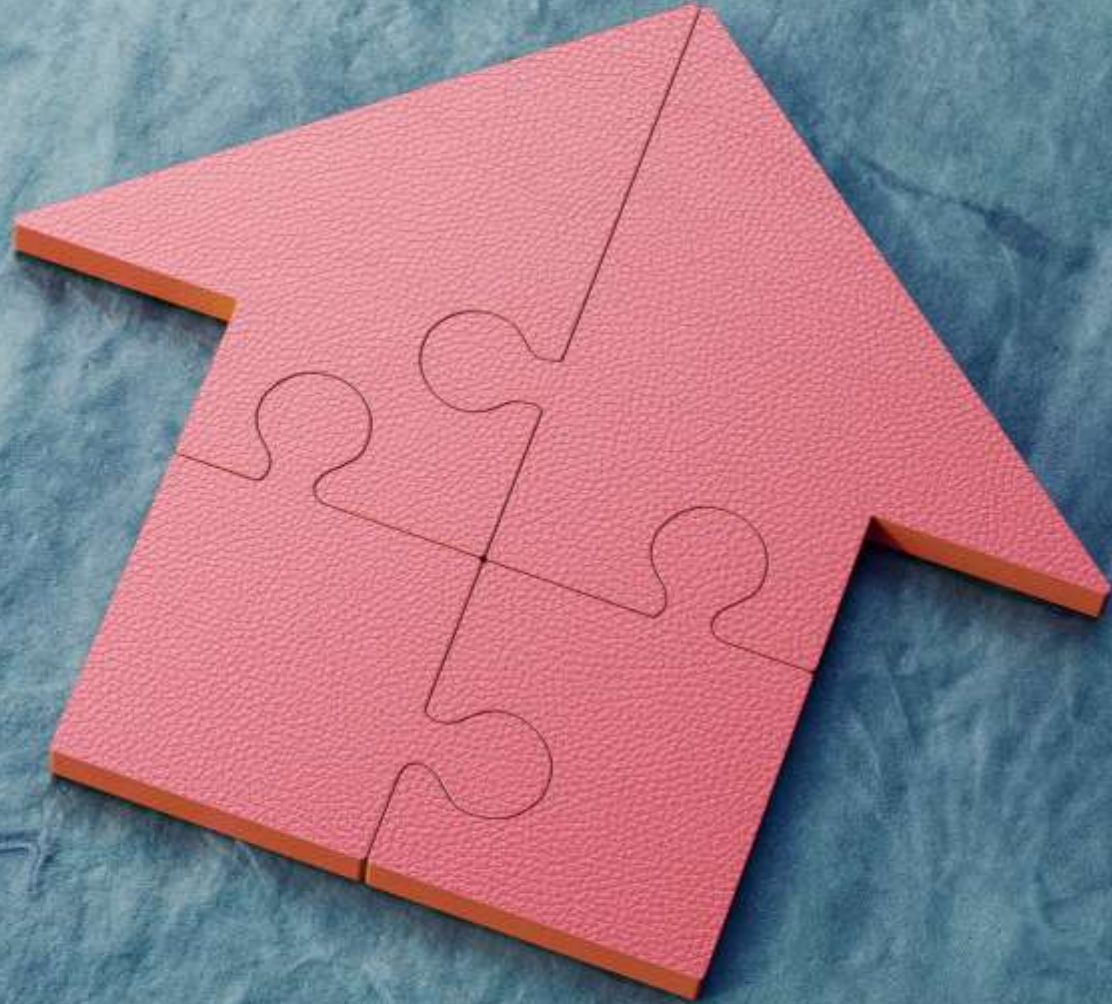


Complete
Product Backlog
for last sprint



New stories that
are planned for
next sprint

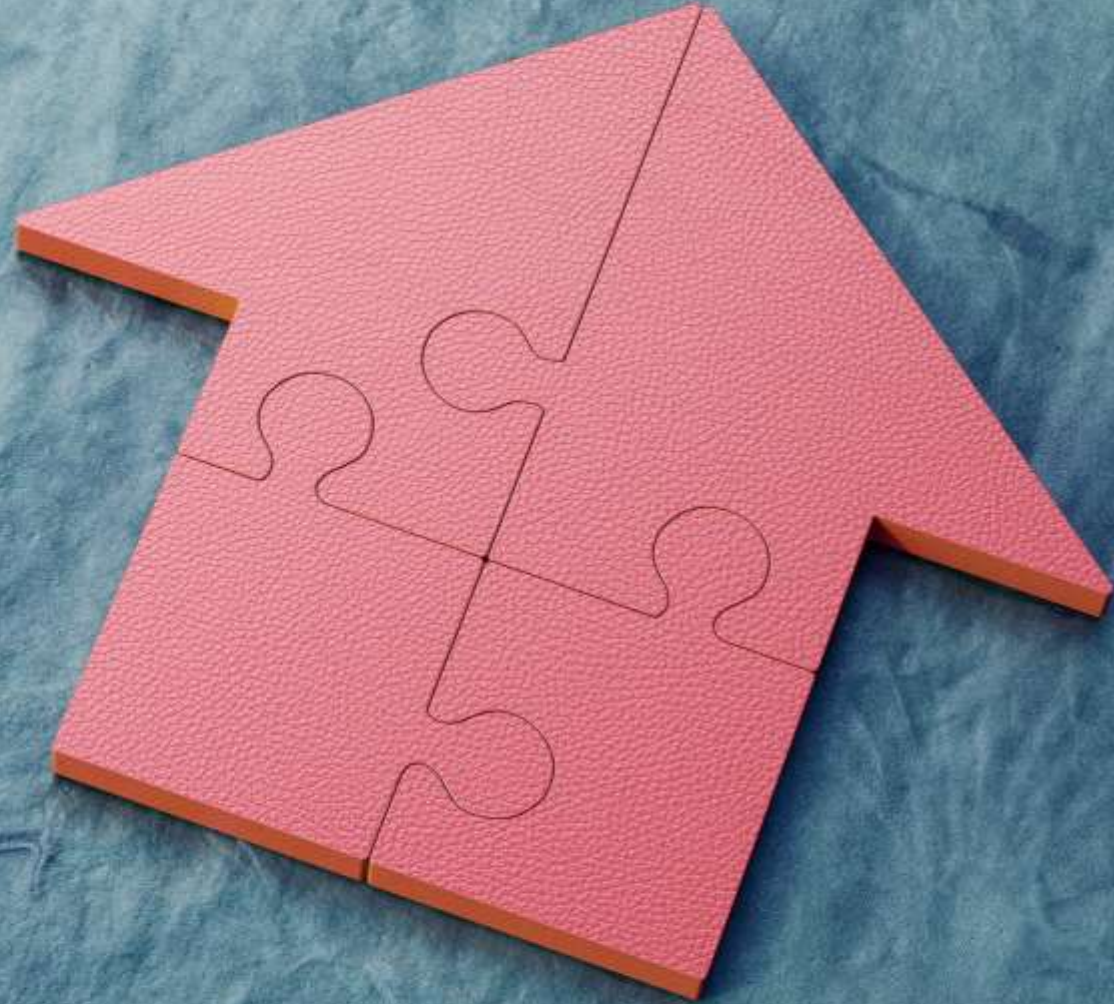
SPRINT BACKLOG & USER STORIES



User Stories for the Sprint

User story and acceptance criteria			
Id	User story	Acceptance criteria	Status
SAT-11	As a Customer, I want to Navigate through home page and features So that I can find information about features	Scenario : customer wants to navigate through home page Given I am in role of logged-in customer When I click on home button Then the system shows me the home page	Done
SAT-12	As a Customer, I want to scroll through the website So that I can see the features in it	Scenario : customer wants to scroll through website Given I am in the role of logged in customer When I scroll through the website Then the system shows me the website	Done
SAT-13	As a Customer, I want to share my information and fitness goals So that the information gets stored	Scenario : Customer wants to share information and goals Given I am in the role of logged in customer When I enter information and fitness goals Then the system shows me	Done
SAT-14	As a Customer, I want to logout from the website So that he gets logged out of website	Scenario : Customer wants to log out of website Given I am in the role of logged in customer When I click on log-out Then I gets logged out of website	Done

TEST CASES



Test Id	Test Unit	Test Description	Test data	Expected output	Test result
SAT-6	Features	User clicks each feature and is directed to more details of that feature		The more details of the feature is displayed	Pass
SAT-5	Home	User clicks About		Opens about section	Pass
SAT-9	About	User clicks linkedIn icon		Redirected to website maker linkedIn profile	Pass
SAT-9	About	User clicks instagram icon		Redirected to website maker instagram	Pass
SAT-13	Contact	User enters name, feature name and message	Name: name test1	Your message has been successfully sent	Pass
			Feature: featurename1		
			Message: can you tell me more		
SAT-13	Contact	User enters name, feature name and message	Name:	Please enter your name	Fail
			Feature: featurename1		
			Message: can you tell me more		
SAT-13	Contact	User enters name, feature name and message	Name: name test1	Please enter the feature	Fail
			Feature:		
			Message: can you tell me more		
SAT-13	Contact	User enters name, feature name and message	Name: name test1	Please enter the message	Fail
			Feature: featurename1		
			Message:		
SAT-14	Home	User clicks the sign out button to log out		You have logged out of the website	Pass
SAT-14	Home	User navigates through the catalogue of features	Email:test1@gmail.com		Pass
			Password : test2@123		
SAT-14	Home	User clicks on service catalogue and finds about features	Email:test1@gmail.com	User finds about what these features are capable of	Pass
			Password : test2@123		

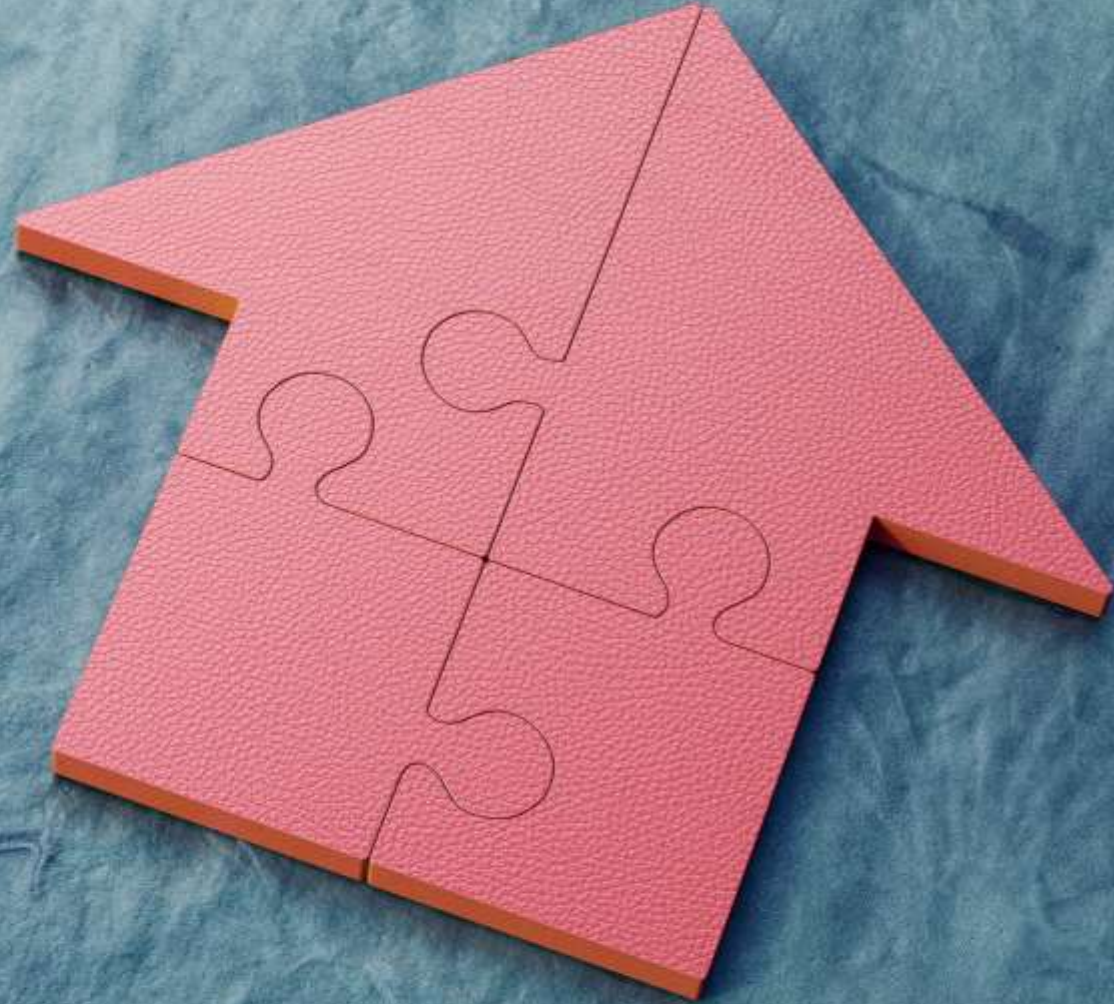
STORIES
COMPLETED/INCOMPLETE



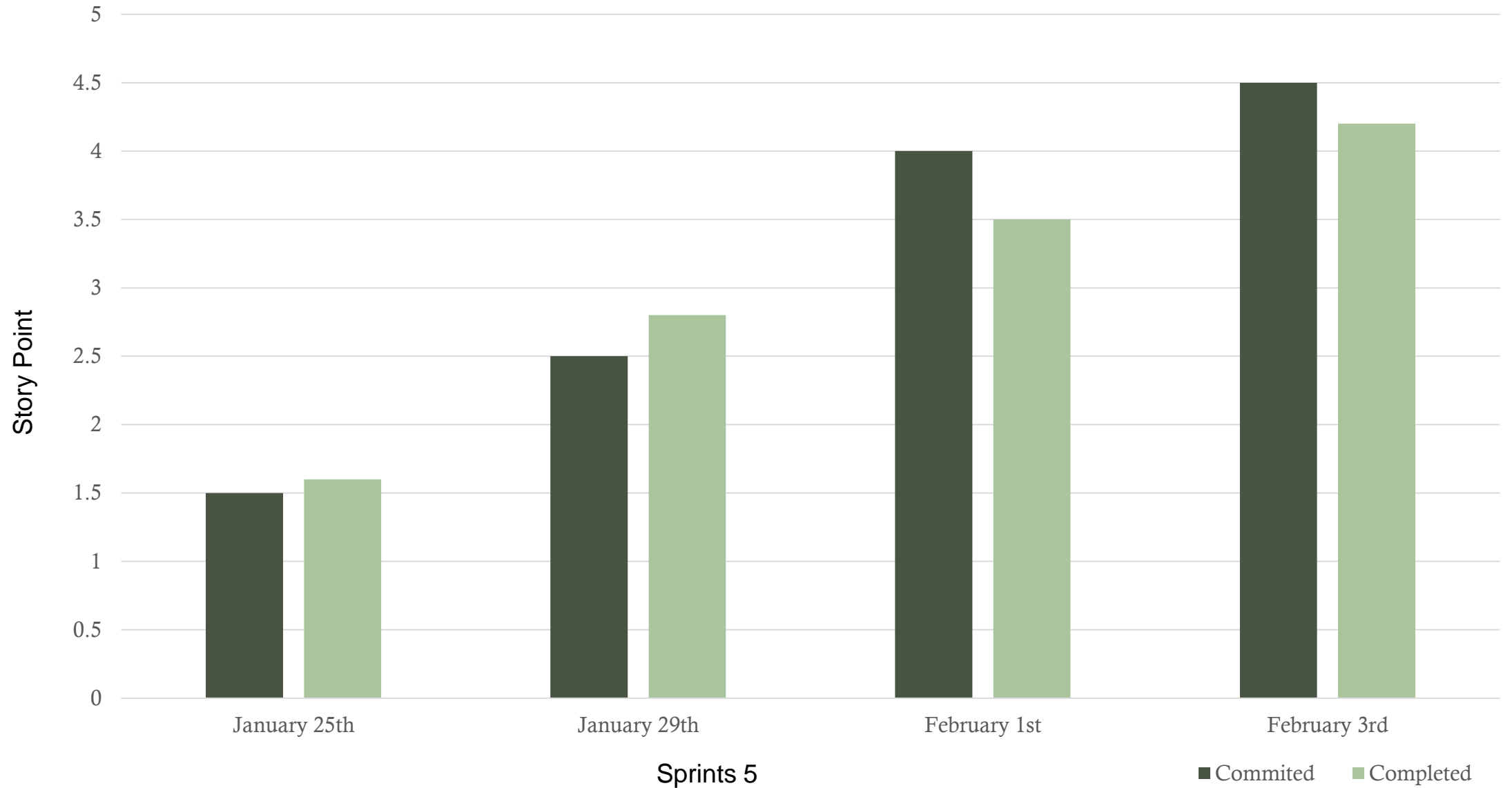
STORIES COMPLETED

Key	Issue Type	Name	Status
SAT-11	Story	As a new user I want to Navigate through home page, features,about and find contact information.	complete
SAT-12	Story	As a New user I should be able to scroll through the website and see all the features in it.	complete
SAT-13	Story	As a user I should be able to share my information by writing name, goals and contact and submit the information.	Complete
SAT-14	Story	User can Log-out from the webpage by pressing logout button	Complete
SAT-18	Task	Research on deep learning Algorithms	Incomplete

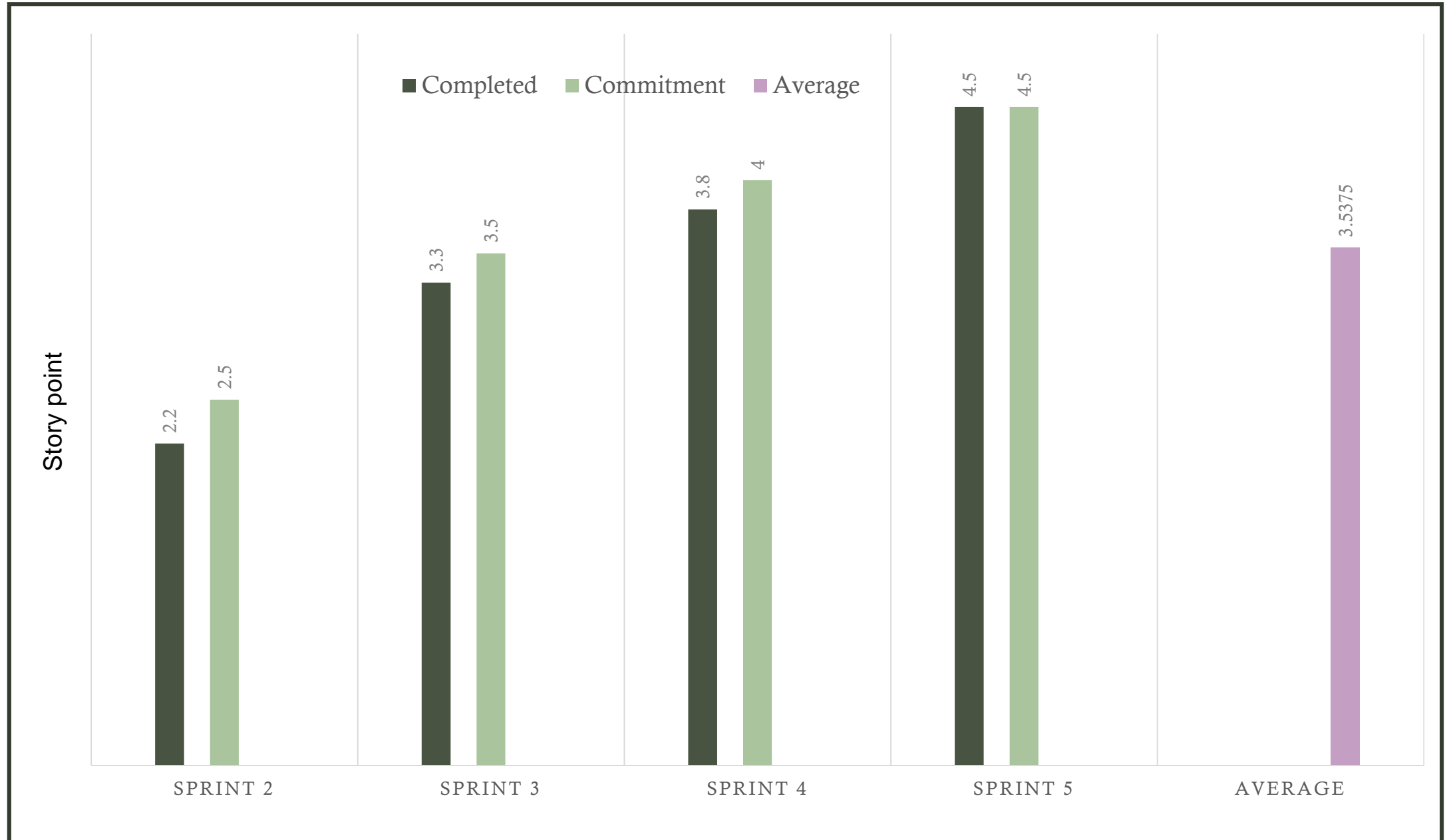
METRICS



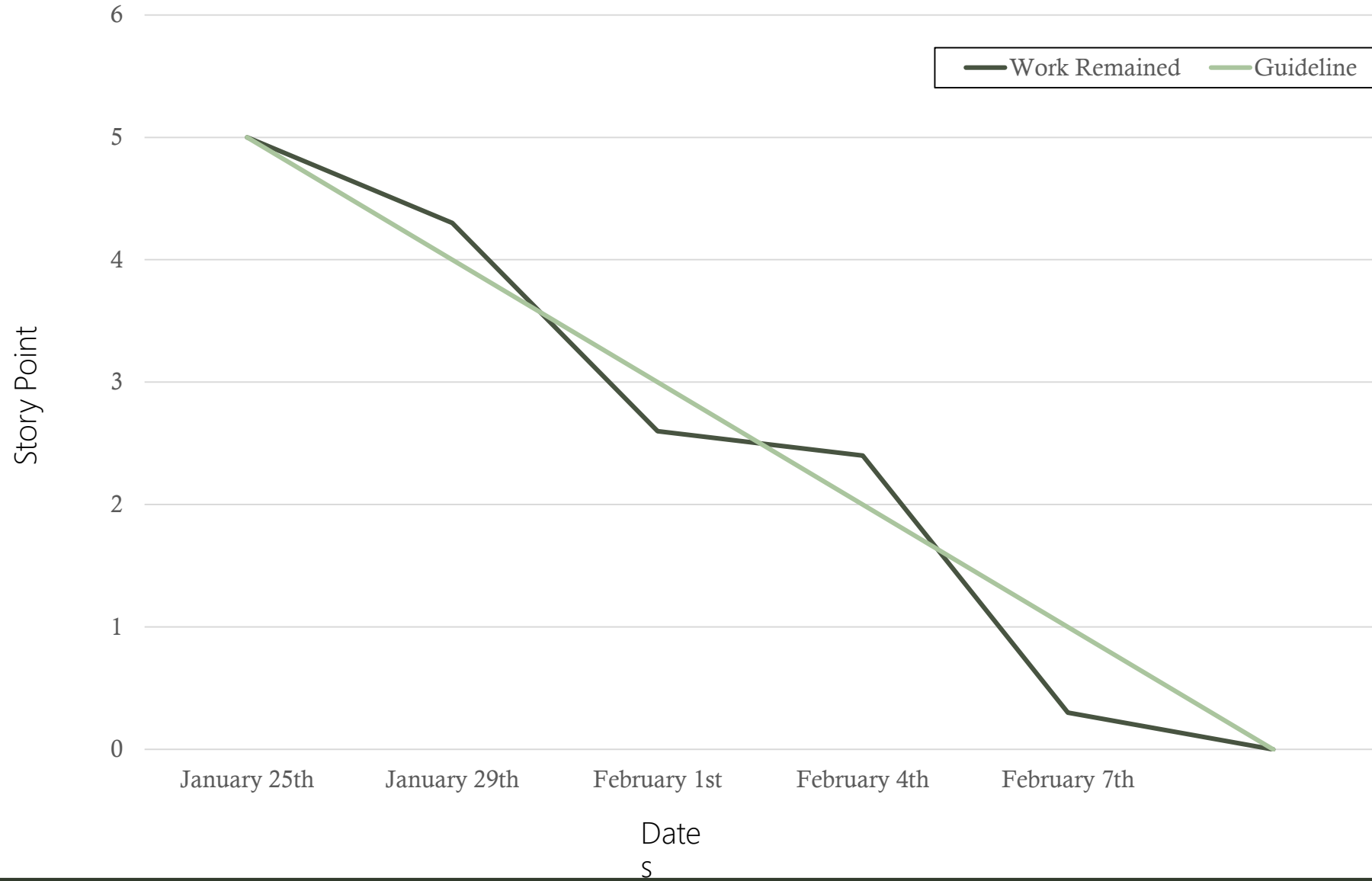
TEAM VELOCITY CHART



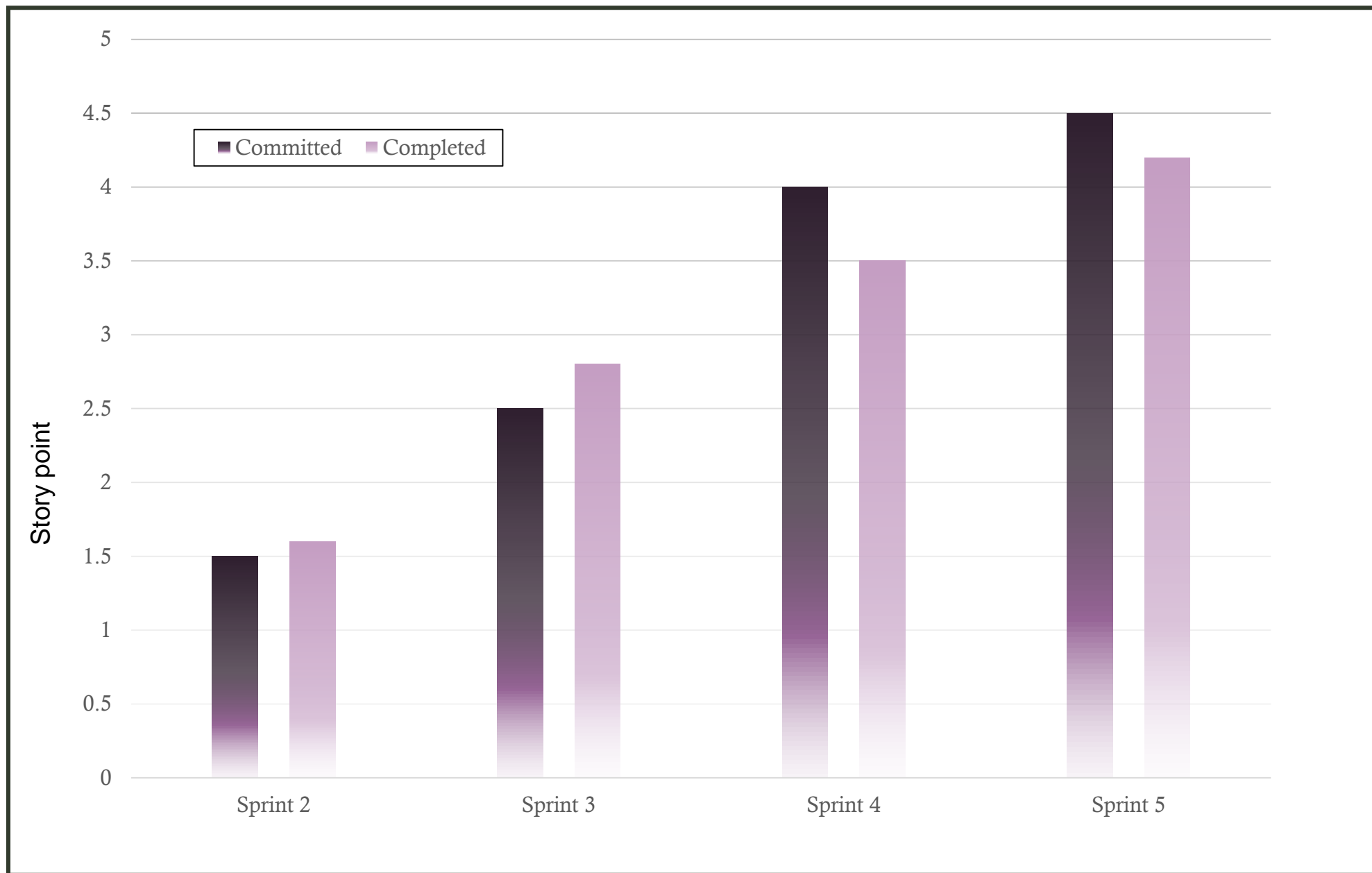
TEAMS HISTORICAL VELOCITY (AVERAGE)



BURN DOWN CHART



COMPLETED/COMMITTED RATIO



RETROSPECTIV
E



❑ What went well?

- Meetings went according to the scheduled manner and the team members complemented each other well.
- Priorities were clear and members took them into account.
- The collaboration was great in our paired sessions.
- We tried to finish the deliverable on time.

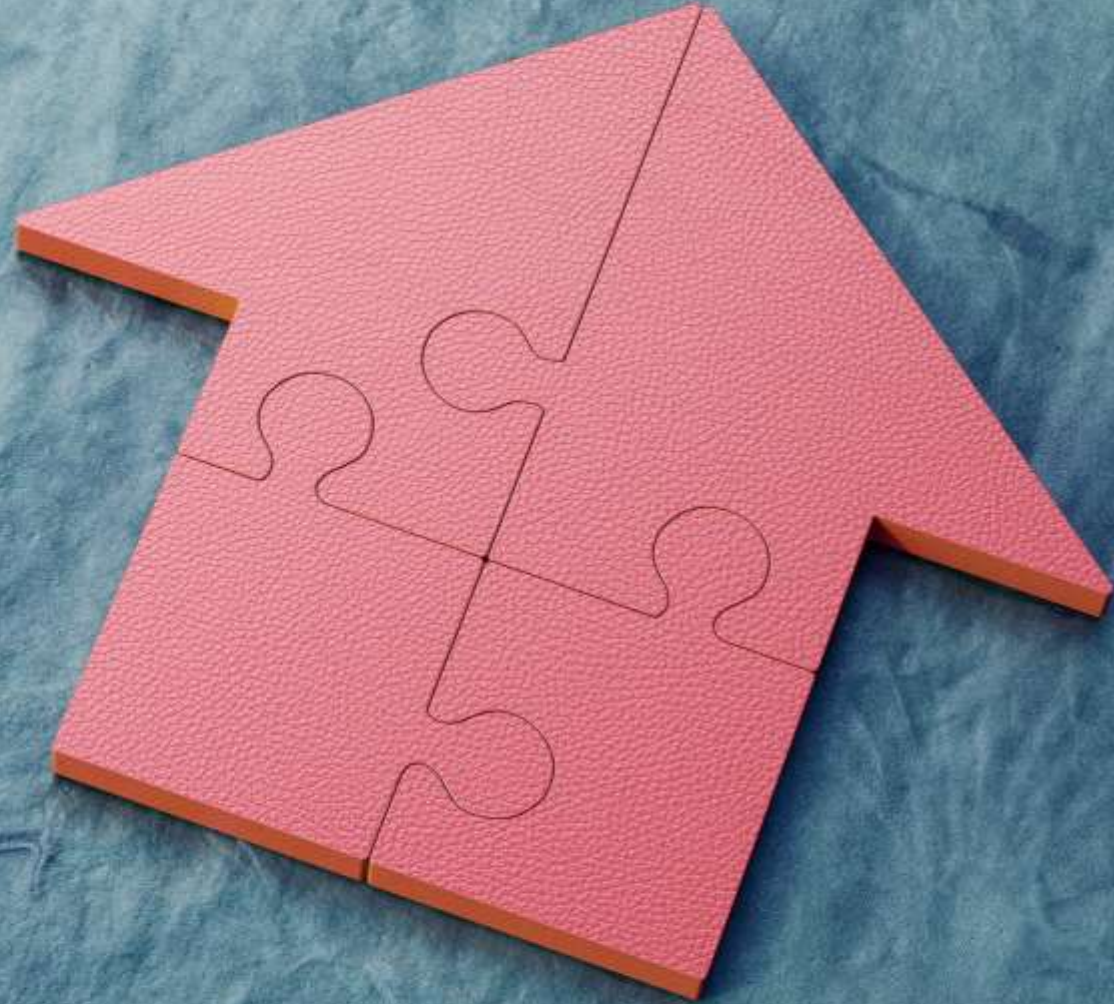
❑ What didn't go well?

- Took more time to work on the login page and sign-up.
- We did not add good number of user stories for the sprint.
- A deadline on when things need to be completed and getting updates on it in every meeting was not met.
- Did not finish hands on on deep learning algorithms

❑ What we did to improve?

- Need to improve time-management and spend more time to work on the deliverable
- Finish research on deep learning algorithms and start focusing on sprint 6.
- Each members need to take initiative and work on the deliverable .
- .Team should focus on timely integration and deployment

SPRINT 6



❑ Stories planned for sprint6

Key	Issue Type	Name	Story Point
SAT-11	Story	As a user I want to reset my password if I forgot one ,So that I can login again.	3
SAT-12	Story	As a new user I want to edit my personal information so that I get recommendations based on changed information.	5
SAT-13	Story	As a new user I want to Upload an Image of the recepie, So that I get information about the recepie.	3
SAT-15	Task	Research on deep learning Algorithms.	5
SAT-16	Task	Finish technical paper.	5

APPLICATION SCREENSHOTS





Calorie Calculator

This Calorie Calculator can be used to estimate the number of calories a person needs to consume each day.

Age

15 - 80

Gender☐ male ☐ female**Height**

130 - 230

cm

Weight

40 - 160

kg

Activity

Sedentary: little or no exercise



Clear values



Calculate



Results

Maintain weight

2701

Calories / day

Mild weight loss

0.25 kg / week

2451

Calories / day

Weight loss

0.50 kg / week

2201

Calories / day

Extreme weight loss

1 kg / week

1701

Calories / day

Mild weight gain

0.25 kg / week

2951

Calories / day



Get in touch

email

youremail@email.com

name

your name

subject

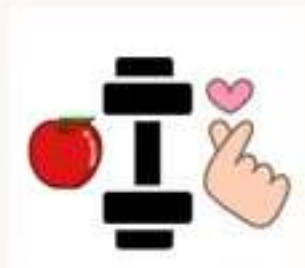
Your subject

message

Enter your message here

Send





Stay healthy with

RE-DEFINE ME

HEALTH & FITNESS

Find the healthiest food for your body,
track the right amount of calories to
have in your meals.

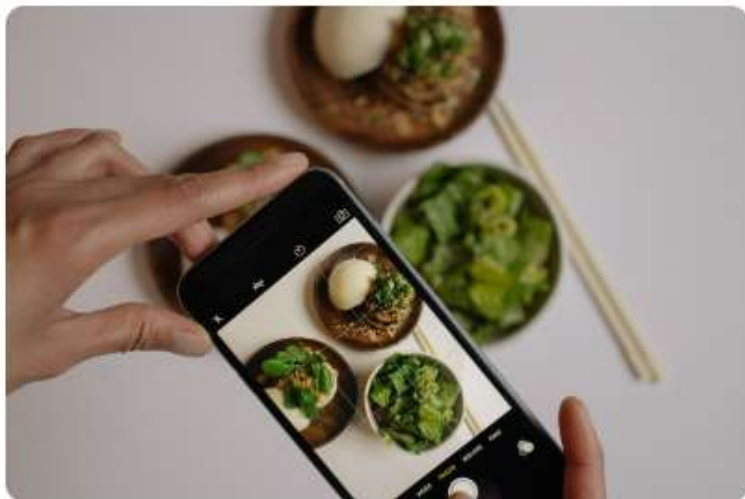
[Calorie Calculator](#)

[🔍 Recipes](#)



Features

Food classification



Git-hub Link

<https://github.com/DhariniMansi/CS691.wiki.git>





HAPPY EATING
THANK YOU