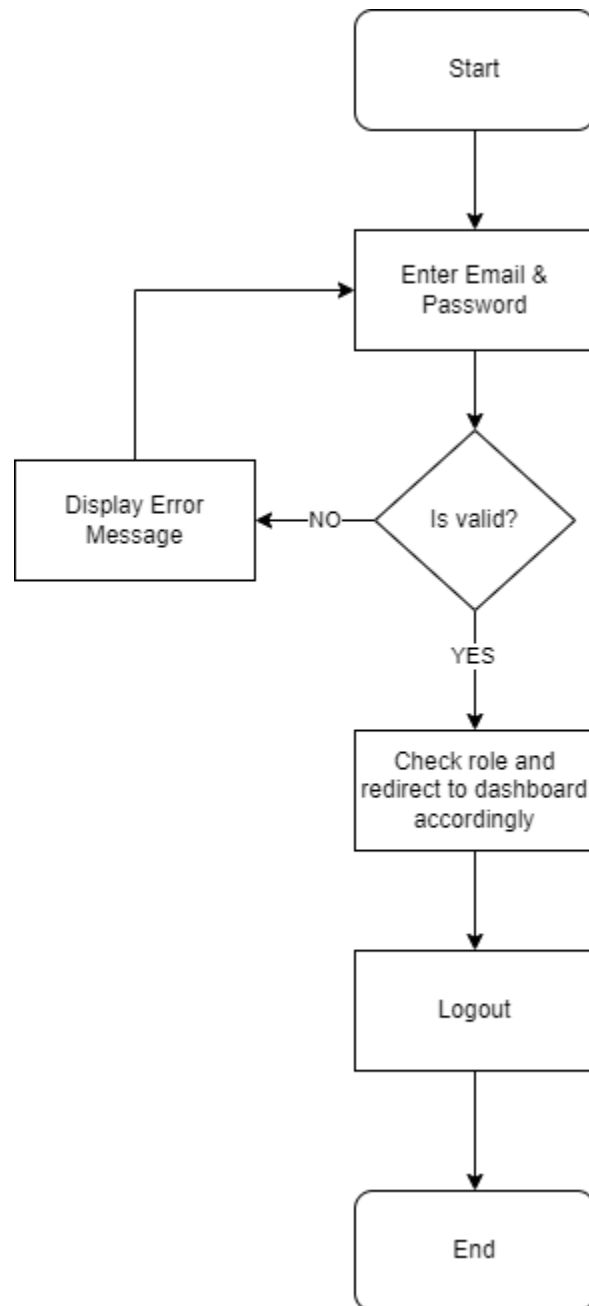


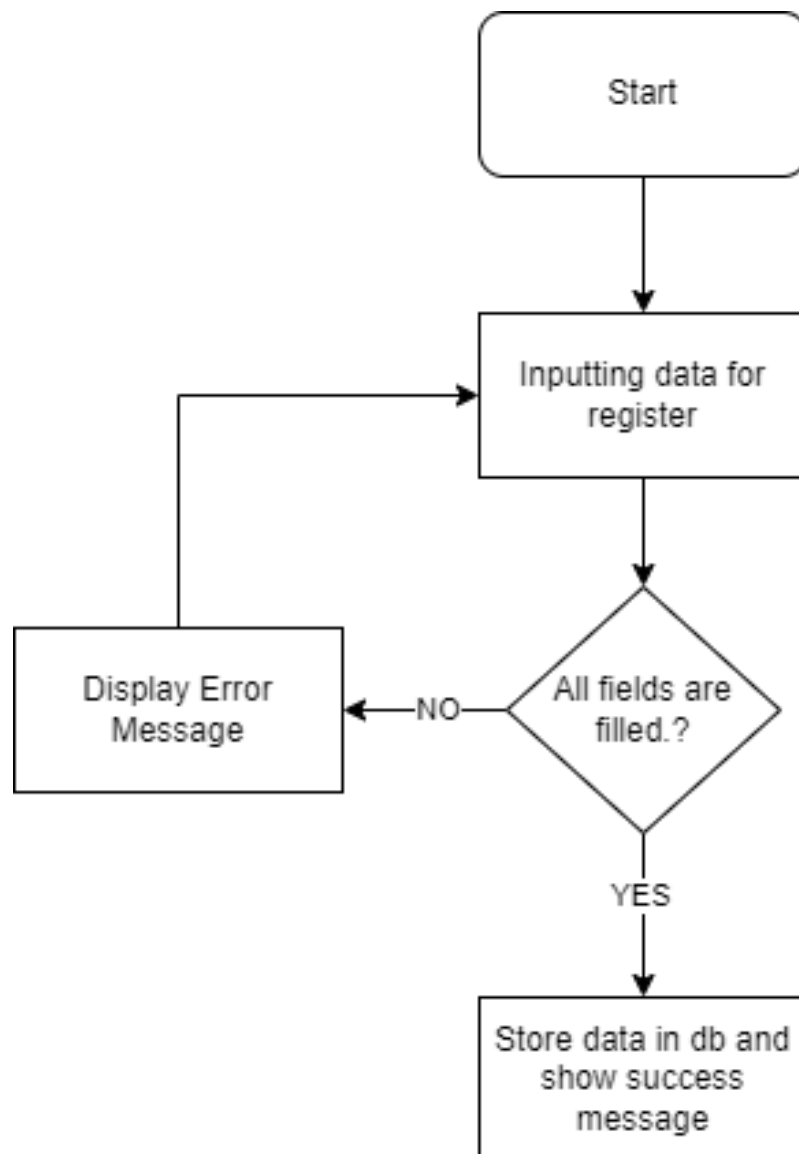
1. Project Design

1.1 Application Flowchart

Login Flow



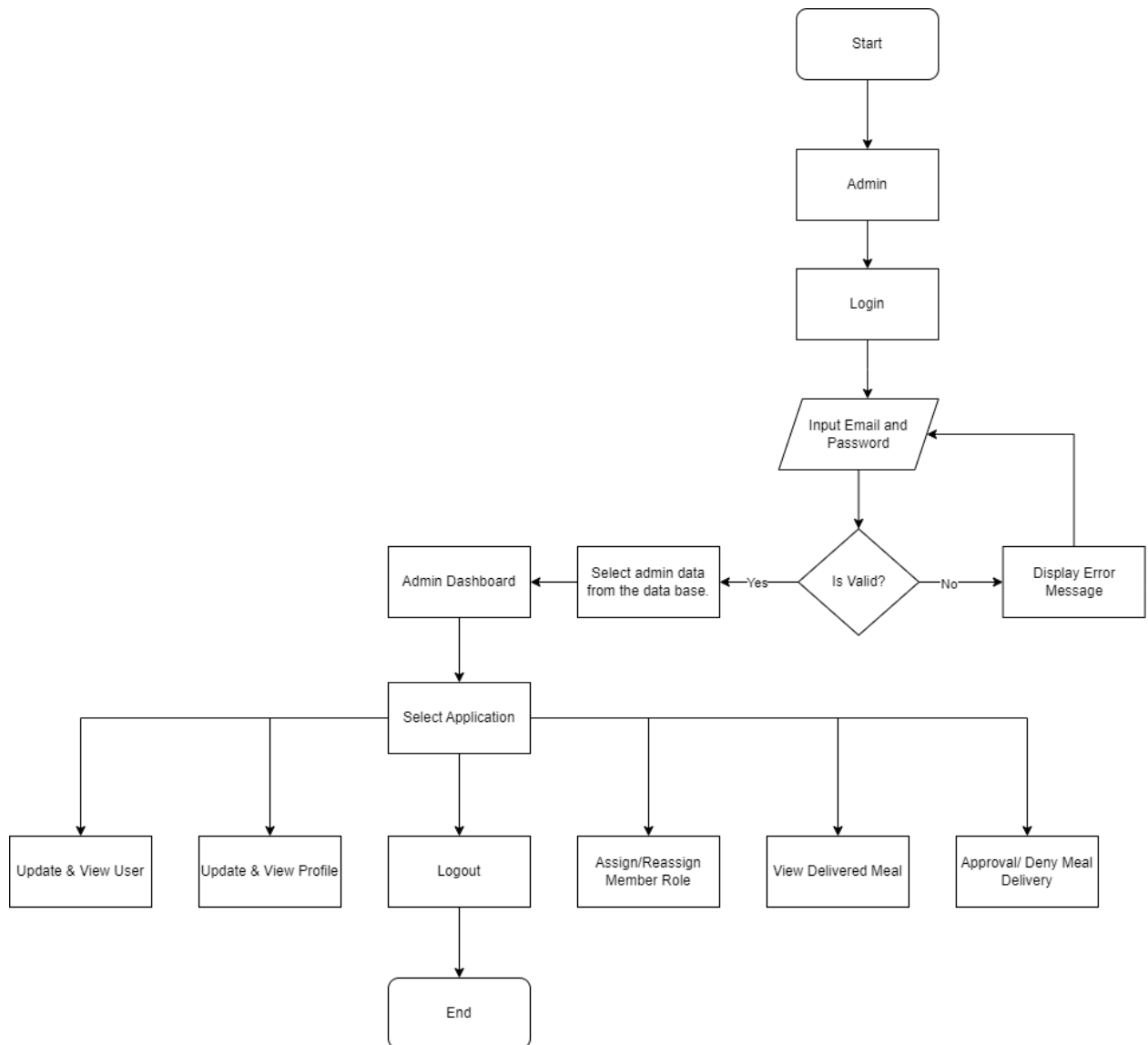
Registration Flow



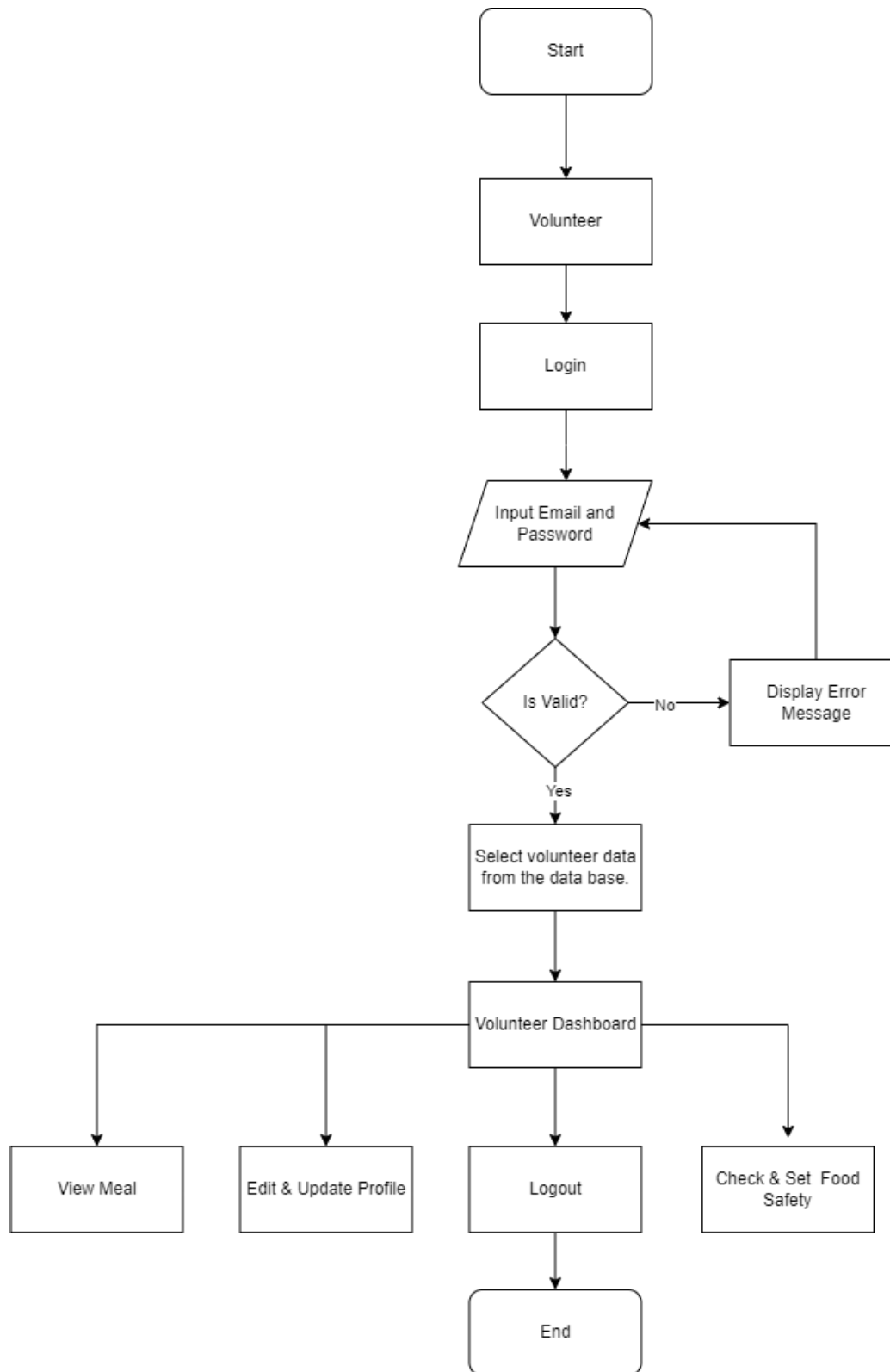
Assignment 2

Chathushi Jayarathna

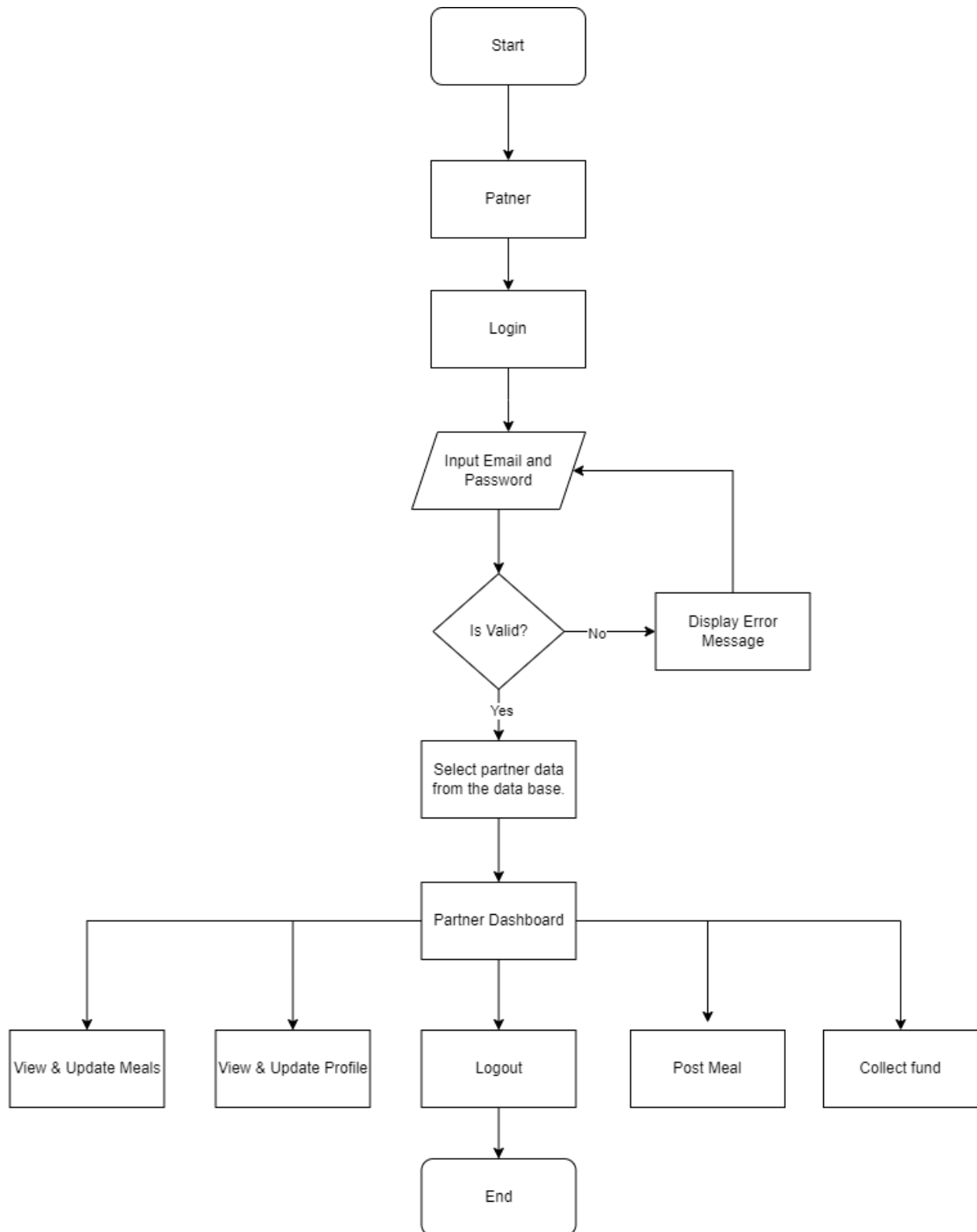
Admin Flow



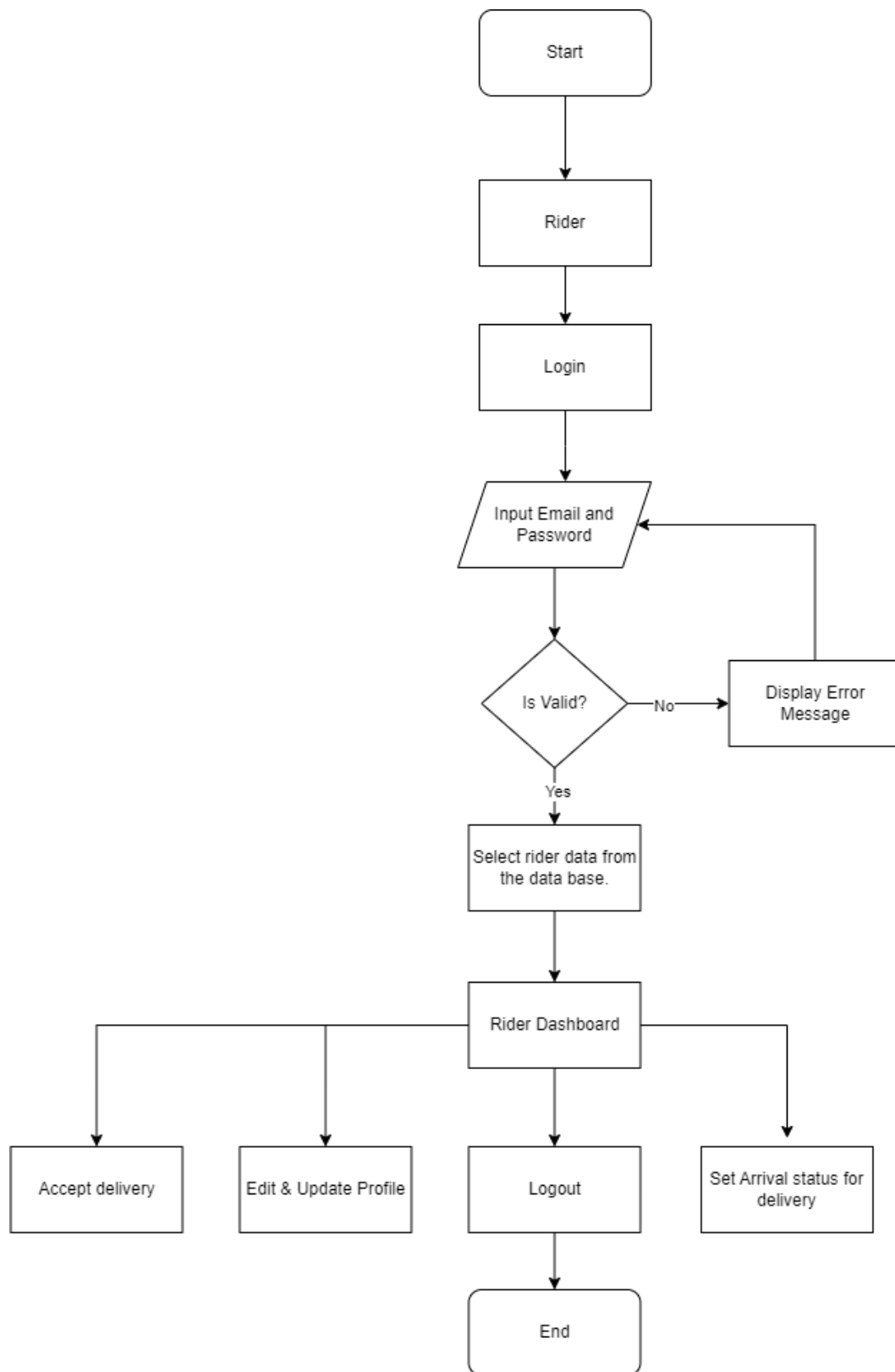
Volunteer Flow



Partner Flow



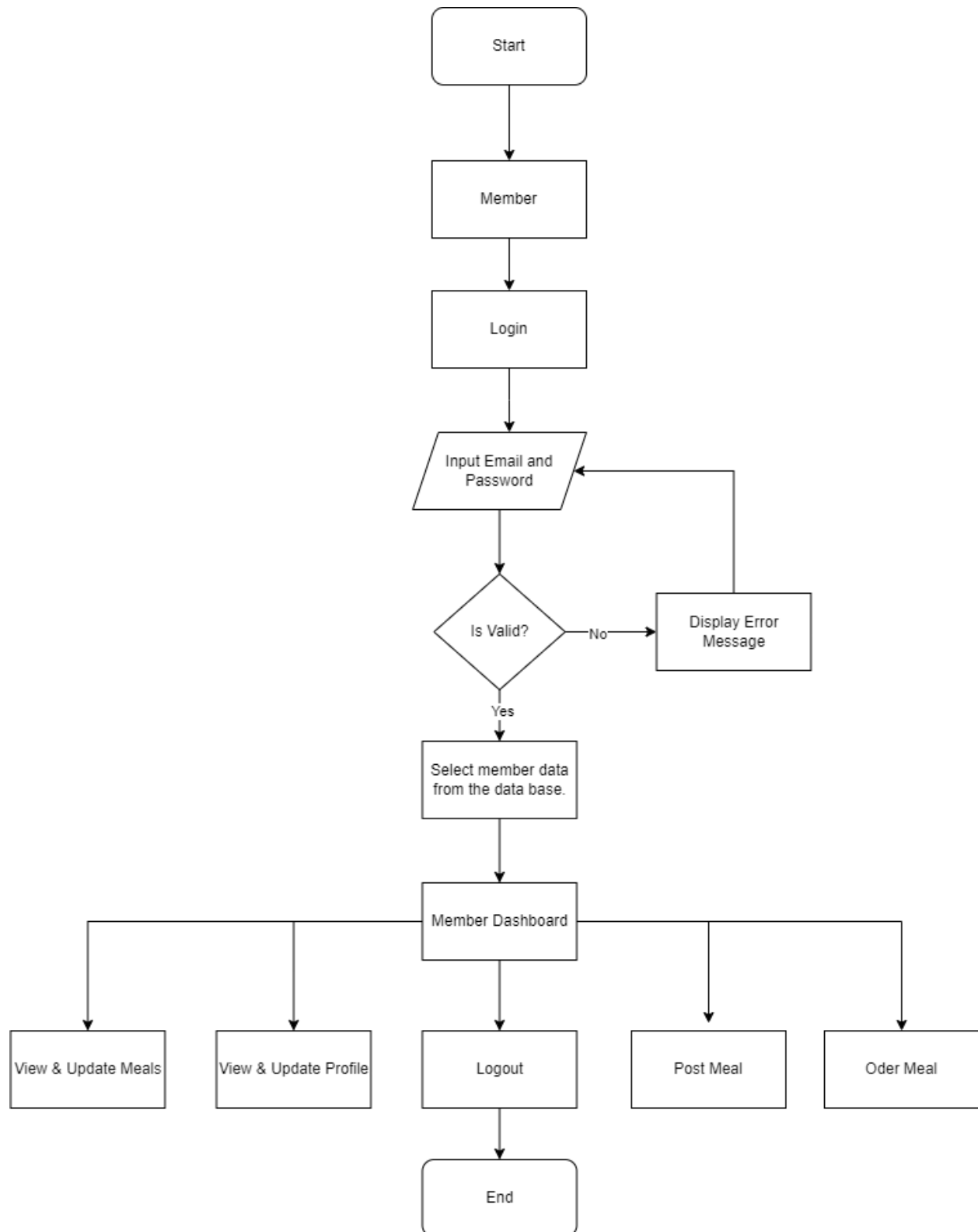
Rider Flow



Assignment 2

Chathushi Jayarathna

Member Flow



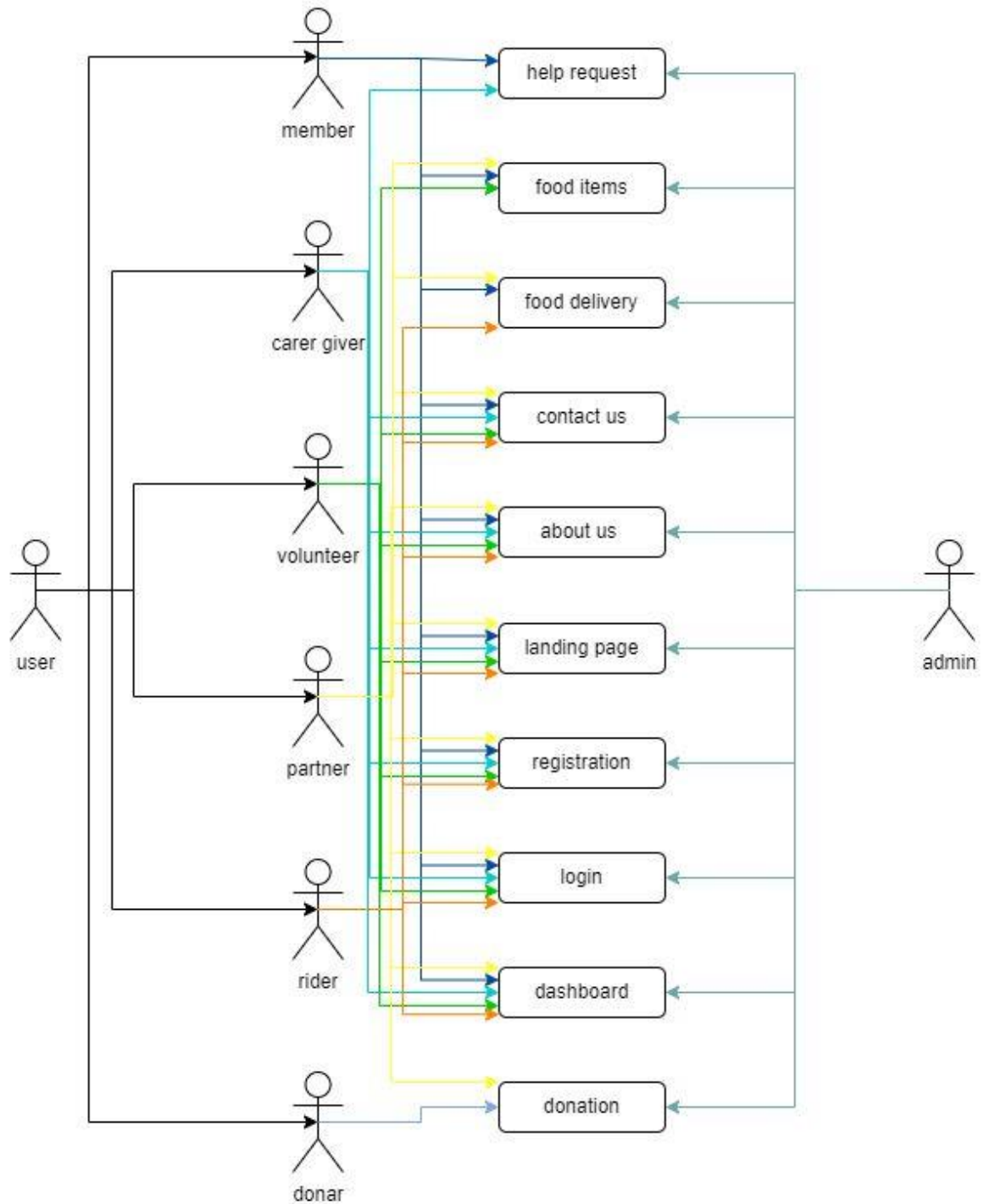
Assignment 2

Chathushi Jayarathna

Caregiver Flow



1.2 Use case diagram



1.3 Module Wireframe


Landing Page



Login



Registration



Merry Meals

[Home](#) [About Us](#) [Donate Us](#) [Contact Us](#) [Dashboard](#) [My Work](#)

Profile Image

Name

Email

Member Type

Profile Image

Address

City

State

About Yourself

Update Profile

Address
358 Calvin Street, Randallia,
Lowa, United States


Google Map Location

Important Link
[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information
[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias
[Facebook](#)
[Instagram](#)
[YouTube](#)

Member Dashboard




Merry Meals

- Home
- About Us
- Donate Us
- Contact Us
- Dashboard
- My Work


Prepared Orders

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet. Proin gravida dolor sit amet lacus accumsan et viverra justo commodo.

[Read More](#)




Available Meals




Lorem ipsum dolor sit amet,

[VIEW](#)




Lorem ipsum dolor sit amet,

[VIEW](#)



Lorem ipsum dolor sit amet,

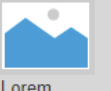
[VIEW](#)



Lorem ipsum dolor sit amet,

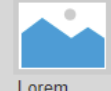
[VIEW](#)

Available Caregivers



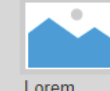
Lorem ipsum dolor

[VIEW](#)



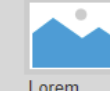
Lorem ipsum dolor

[VIEW](#)



Lorem ipsum dolor


[VIEW](#)



Lorem ipsum dolor

[VIEW](#)


Order Details



Food Photo

[View Detail](#)

Address




Food Photo

[View Detail](#)

Address

Address

358 Calvin Street, Randallia, Iowa, United States



Important Link

- Home
- Sign In
- Sign Up
- Contact Us
- About Us
- Terms and Conditions

Partners Information


- ABC Partners
- XYZ Partners
- AAA Partners
- ACC Partners

Social Medias

- Facebook
- Instagram
- YouTube


Copyright 2023. All rights reserved by Merry Meals

Volunteer Dashboard




Merry Meals

[Home](#) [About Us](#) [Donate Us](#) [Contact Us](#) [Dashboard](#) [My Work](#)




Jhon Bla
Volunteer
Willing to work in any country


Check for food safety




Lorem ipsum dolor sit amet,
☐ safe
☐ unsafe



Lorem ipsum dolor sit amet,
☐ safe
☐ unsafe




Lorem ipsum dolor sit amet,
☐ safe
☐ unsafe



Lorem ipsum dolor sit amet,
☐ safe
☐ unsafe

Address

358 Calvin Street, Randallia,
Lowa, United States



Important Link

[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information

[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias


[Facebook](#)
[Instagram](#)
[YouTube](#)

Copyright 2023. All rights reserved by Merry Meals

Assignment 2


Chathushi Jayarathna

Care giver



Merry Meals

[Home](#) [About Us](#) [Donate Us](#) [Contact Us](#) [Dashboard](#) [My Work](#)



Jhon Bla
Professional Care Giver

Set days
☐ Monday
☐ Tuesday
☐ Wednesday
☐ Thursday
☐ Friday

Set available Time


From	To
<input type="text" value="09:00"/>	<input type="text" value="11:00"/>
<input type="text" value="12:00"/>	<input type="text" value="16:00"/>

Member Request

Jhon Bla, requested time	<input type="checkbox"/>	<input type="checkbox"/>
Jhon Bla, requested time	<input type="checkbox"/>	<input type="checkbox"/>
Jhon Bla, requested time	<input type="checkbox"/>	<input type="checkbox"/>

Address

358 Calvin Street, Randallia,
Lowa, United States



Important Link

[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information


[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias

[Facebook](#)
[Instagram](#)
[YouTube](#)


Copyright 2023. All rights reserved by Merry Meals

Donation Form

**Merry Meals**[Home](#)[About Us](#)[Donate Us](#)[Contact Us](#)[Sign In](#)[Sign Up](#)

Donation

Heading 3



Heading

Name


Email

Donation

DONATE

Address

358 Calvin Street, Randalia,
Iowa, United States



Important Link

[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information


[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias

[Facebook](#)
[Instagram](#)
[YouTube](#)

Copyright 2023. All rights reserved by Merry Meals


Rider Dashboard




Merry Meals


- Home
- About Us
- Donate Us
- Contact Us
- Dashboard
- My Work


All OrdersPending OrdersCompleted Orders

A3, #C, Randalia, Iowa


30 minutes left


Confirm Order

A3, #C, Randalia, Iowa


30 minutes left


Confirm Order

A3, #C, Randalia, Iowa


30 minutes left


Confirm Order

A3, #C, Randalia, Iowa

30 minutes left

Confirm Order


A3, #C, Randalia, Iowa

30 minutes left

Confirm Order

Address

358 Calvin Street, Randalia,
Iowa, United States



Important Link

- Home
- Sign In
- Sign Up
- Contact Us
- About Us
- Terms and Conditions

Partners Information


- ABC Partners
- XYZ Partners
- AAA Partners
- ACC Partners

Social Medias

- Facebook
- Instagram
- YouTube

Copyright 2023. All rights reserved by Merry Meals

Partner Dashboard



Merry Meals

[Home](#) [About Us](#) [Donate Us](#) [Contact Us](#) [Dashboard](#) [My Work](#)

Welcome Partner

Lorem ipsum dolor sit amet, consectetur adipiscing

Post New Prepared Meals

Post Your Meal Here

1

Name

Category


▼

Description

Add Image


POST

Posted Meals




Lorem ipsum dolor sit amet, consectetur adipiscing

VIEW




Lorem ipsum dolor sit amet, consectetur adipiscing

VIEW



Lorem ipsum dolor sit amet, consectetur adipiscing

VIEW




Lorem ipsum dolor sit amet, consectetur adipiscing

VIEW

Address

358 Calvin Street, Randallia, Iowa, United States



Important Link

[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information

[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias

[Facebook](#)
[Instagram](#)
[YouTube](#)


Copyright 2023. All rights reserved by Merry Meals

Assignment 2

Chathushi Jayarathna

Admin Control panel for Member, Caregiver, Rider, Partner, Meal, Order


**Merry Meals**[Home](#)[About Us](#)[Donate Us](#)[Contact Us](#)[Dashboard](#)[My Work](#)



ADD NEW MEMBER

Members

heading	heading	heading	heading	heading	heading
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE

Address
358 Calvin Street, Randallia,
Lowa, United States



Important Link
[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information
[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias
[Facebook](#)
[Instagram](#)
[YouTube](#)

Copyright 2023. All rights reserved by Merry Meals


**Merry Meals**[Home](#)[About Us](#)[Donate Us](#)[Contact Us](#)[Dashboard](#)[My Work](#)



ADD NEW PARTNER

Partners

heading	heading	heading	heading	heading	heading
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE


Address
358 Calvin Street, Randallia,
Lowa, United States



Important Link
[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information
[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias
[Facebook](#)
[Instagram](#)
[YouTube](#)

Copyright 2023. All rights reserved by Merry Meals


**Merry Meals** [Home](#) [About Us](#) [Donate Us](#) [Contact Us](#) [Dashboard](#) [My Work](#)



ADD NEW CAREGIVERS

Caregivers

heading	heading	heading	heading	heading	heading
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE


Address
358 Calvin Street, Randalia,
Iowa, United States



Important Link
[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information
[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias
[Facebook](#)
[Instagram](#)
[YouTube](#)

Copyright 2023. All rights reserved by Merry Meals


**Merry Meals** [Home](#) [About Us](#) [Donate Us](#) [Contact Us](#) [Dashboard](#) [My Work](#)



ADD NEW RIDER

Riders

heading	heading	heading	heading	heading	heading
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE

Address
358 Calvin Street, Randalia,
Iowa, United States



Important Link
[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information
[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias
[Facebook](#)
[Instagram](#)
[YouTube](#)

Copyright 2023. All rights reserved by Merry Meals


**Merry Meals**[Home](#)[About Us](#)[Donate Us](#)[Contact Us](#)[Dashboard](#)[My Work](#)



ADD NEW MEAL

Meals

heading	heading	heading	heading	heading	heading
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE

Address
358 Calvin Street, Randallia,
Lowa, United States



Important Link
[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information
[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias
[Facebook](#)
[Instagram](#)
[YouTube](#)


Copyright 2023. All rights reserved by [Merry Meals](#)

**Merry Meals**[Home](#)[About Us](#)[Donate Us](#)[Contact Us](#)[Dashboard](#)[My Work](#)



Orders

heading	heading	heading	heading	heading	heading
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE
					EDIT DELETE

Address
358 Calvin Street, Randallia,
Lowa, United States



Important Link
[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information
[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

Social Medias
[Facebook](#)
[Instagram](#)
[YouTube](#)

Copyright 2023. All rights reserved by [Merry Meals](#)

About Us Page

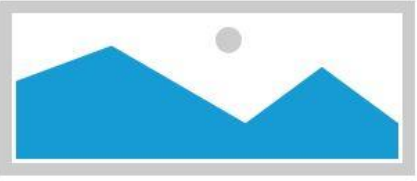
**Merry Meals** [Home](#) [About Us](#) [Donate Us](#) [Contact Us](#) [Dashboard](#) [My Work](#)

About Us


Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet. Proin gravida dolor sit amet lacus accumsan et viverra justo commodo. Proin sodales pulvinar sic tempor.

Our Mission

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet. Proin gravida dolor sit amet lacus accumsan et viverra justo commodo. Proin sodales pulvinar sic tempor.




Meet Our Team...




Heading 3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet.



Heading 3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet.




Heading 3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet.

Address

358 Calvin Street, Randallia,
Lowa, United States



Important Link

- [Home](#)
- [Sign In](#)
- [Sign Up](#)
- [Contact Us](#)
- [About Us](#)
- [Terms and Conditions](#)

Partners Information


- [ABC Partners](#)
- [XYZ Partners](#)
- [AAA Partners](#)
- [ACC Partners](#)

Social Medias

- [Facebook](#)
- [Instagram](#)
- [YouTube](#)

Copyright 2023. All rights reserved by [Merry Meals](#)

Contact Us Page

**Merry Meals**[Home](#)[About Us](#)[Donate Us](#)[Contact Us](#)[Sign In](#)[Sign Up](#)

Contact US

Contact No
Location
Email

Message Us

Name


Phone/Email

Message

Save

Address

358 Calvin Street, Randalia,
Iowa, United States



Important Link

[Home](#)
[Sign In](#)
[Sign Up](#)
[Contact Us](#)
[About Us](#)
[Terms and Conditions](#)

Partners Information

[ABC Partners](#)
[XYZ Partners](#)
[AAA Partners](#)
[ACC Partners](#)

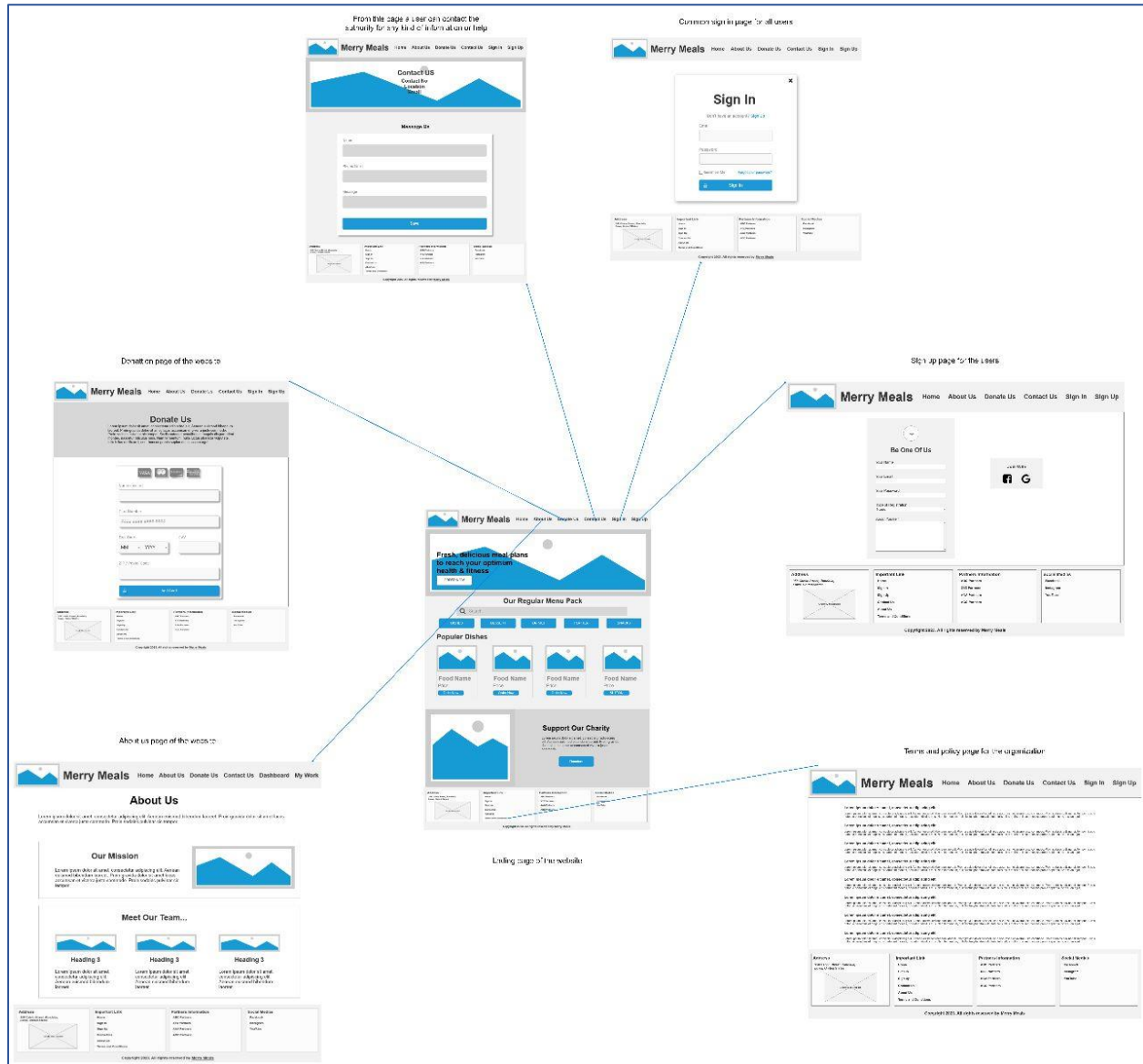
Social Medias

[Facebook](#)
[Instagram](#)
[YouTube](#)

Copyright 2023. All rights reserved by Merry Meals

1.4 Story Boards

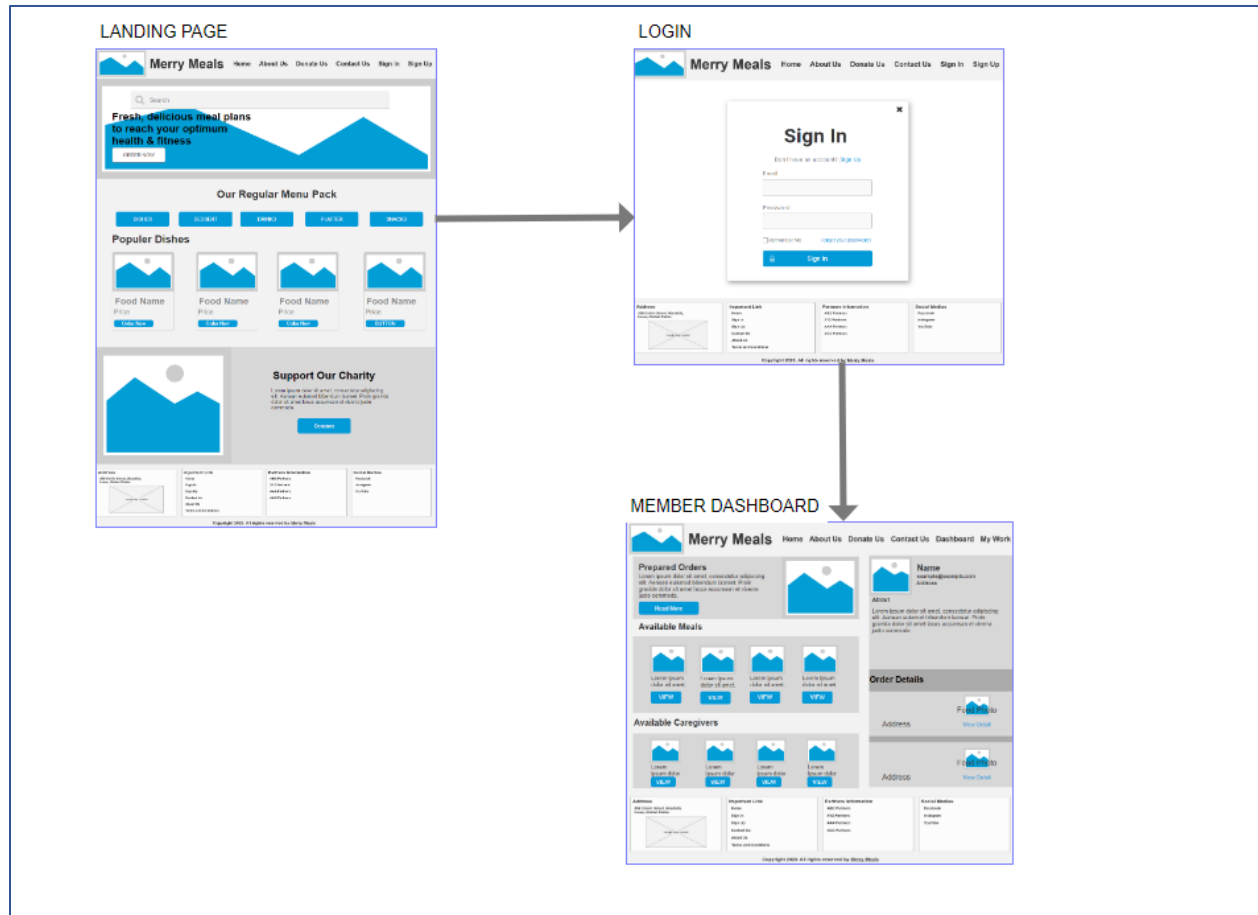
Landing Page



Assignment 2

Chathushi Jayarathna

Member Login



Rider Login



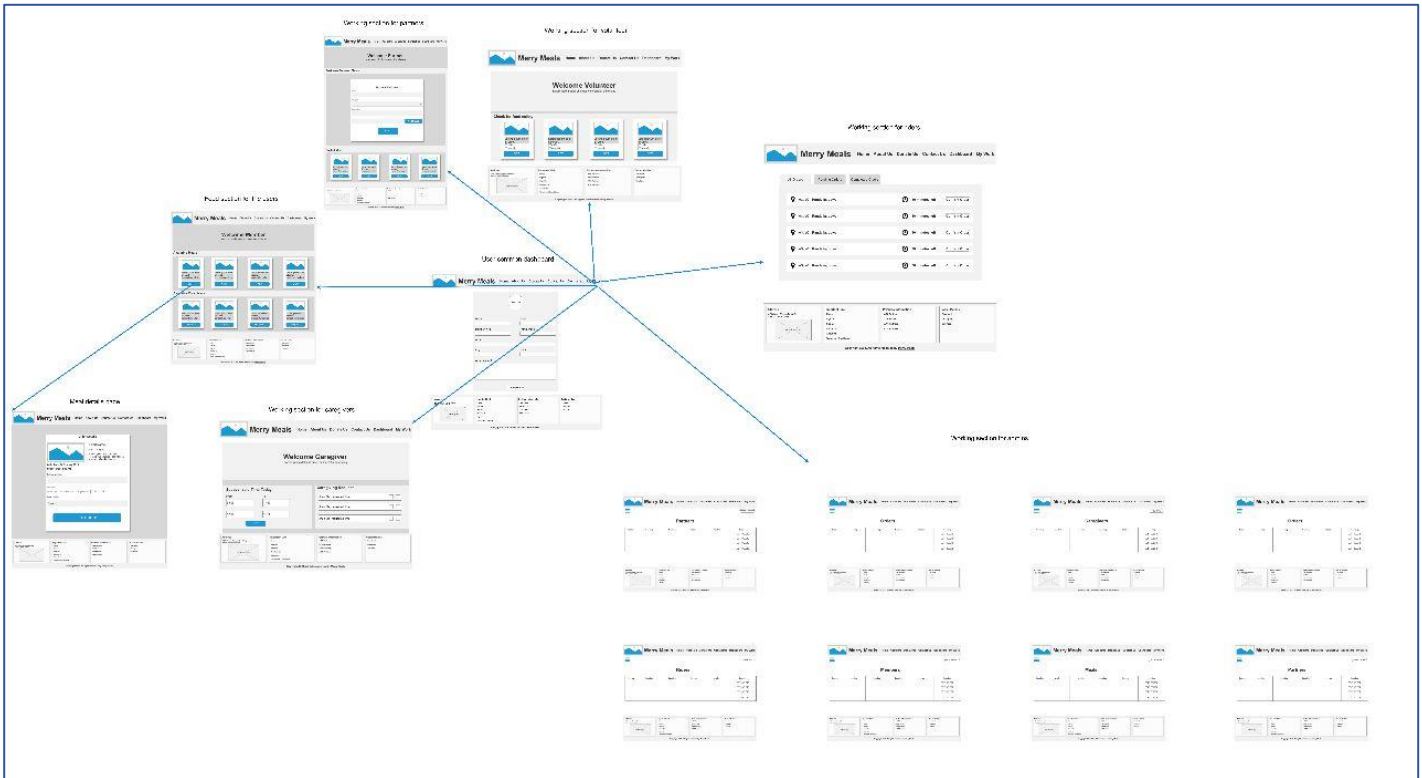
Partner Login



Assignment 2

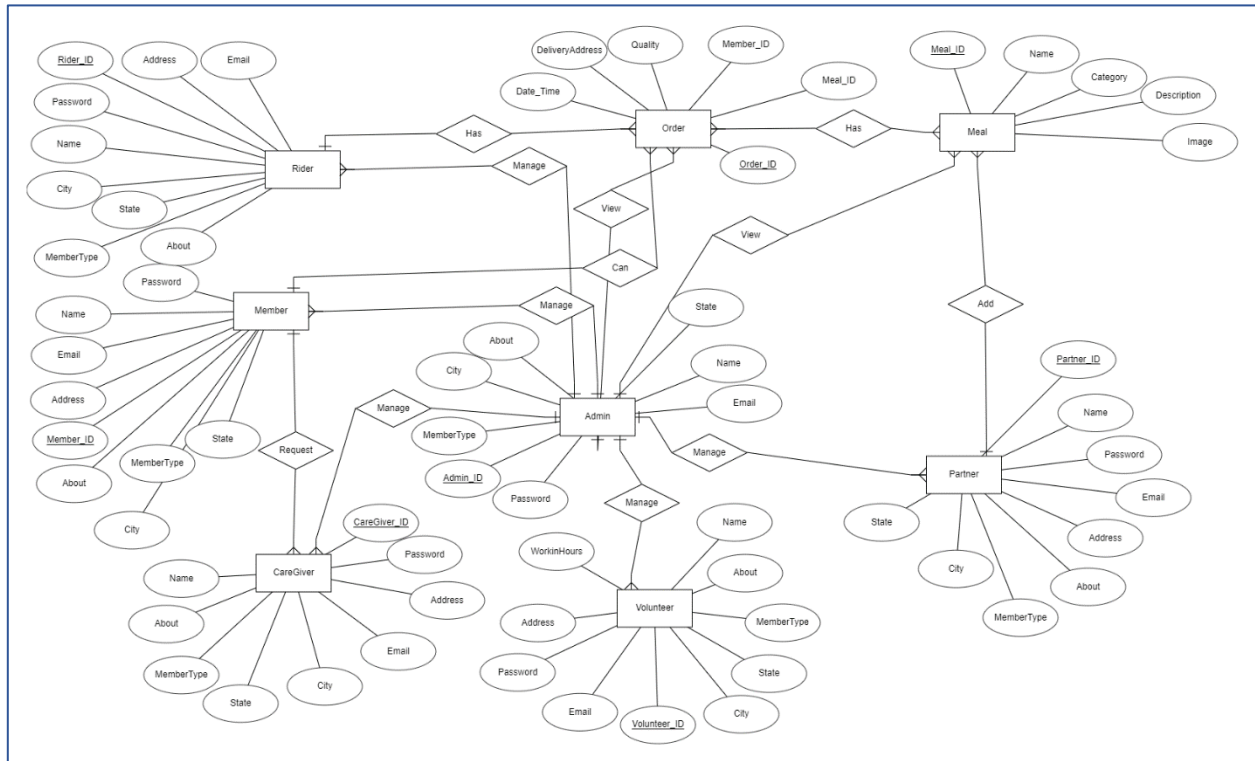
Chathushi Jayarathna

Admin Panel

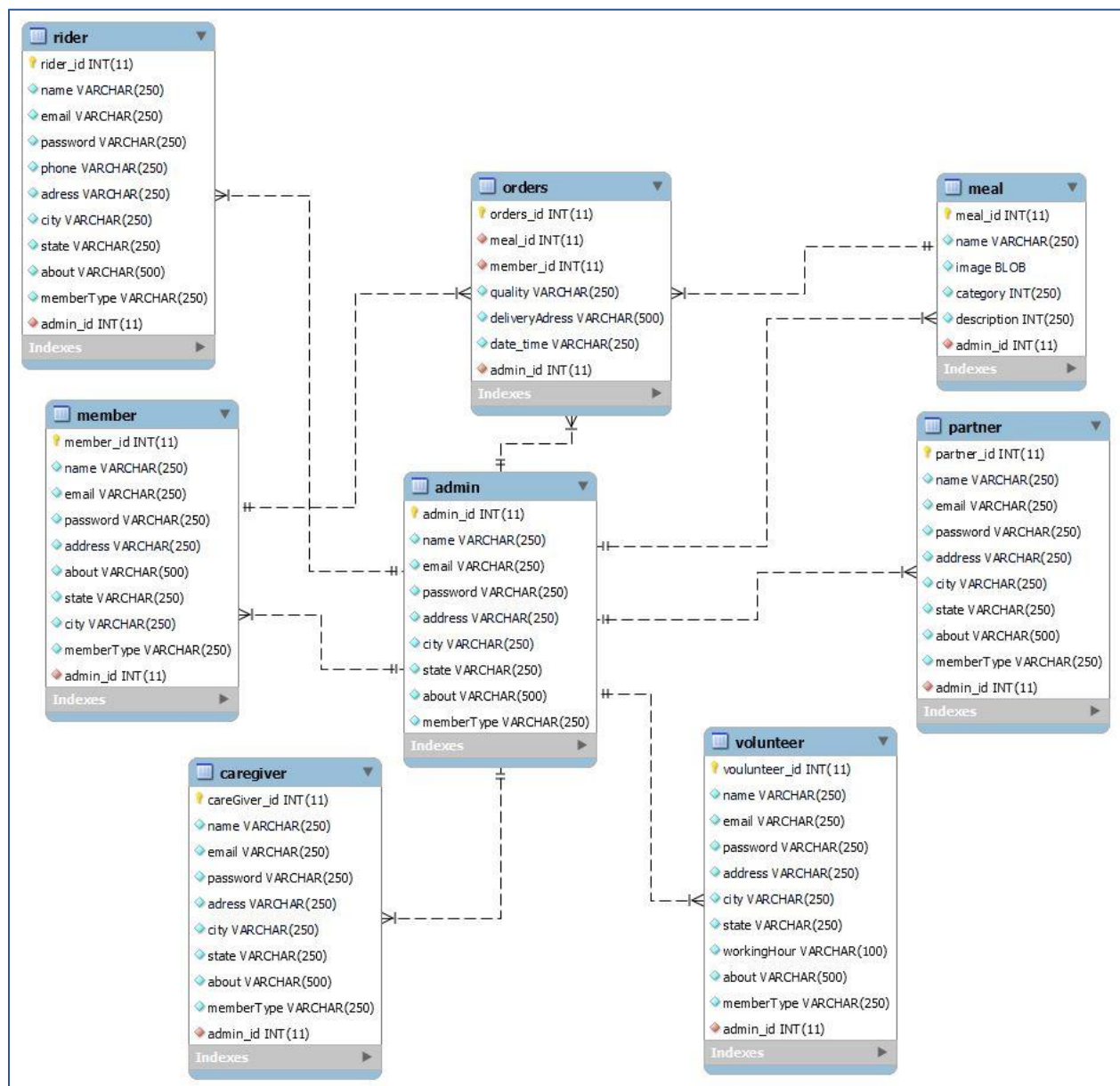


1.5 DB Design: ERD diagram and EERD (Class diagram)

ERD Diagram



EERD

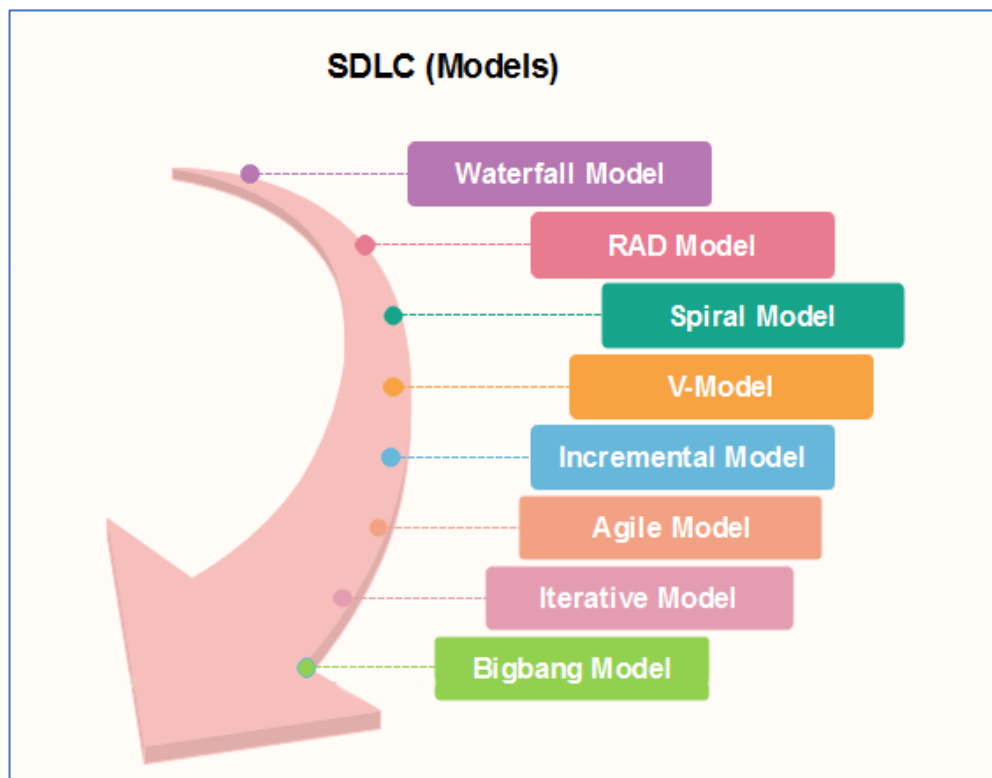


2. SDLC (software development life cycle)

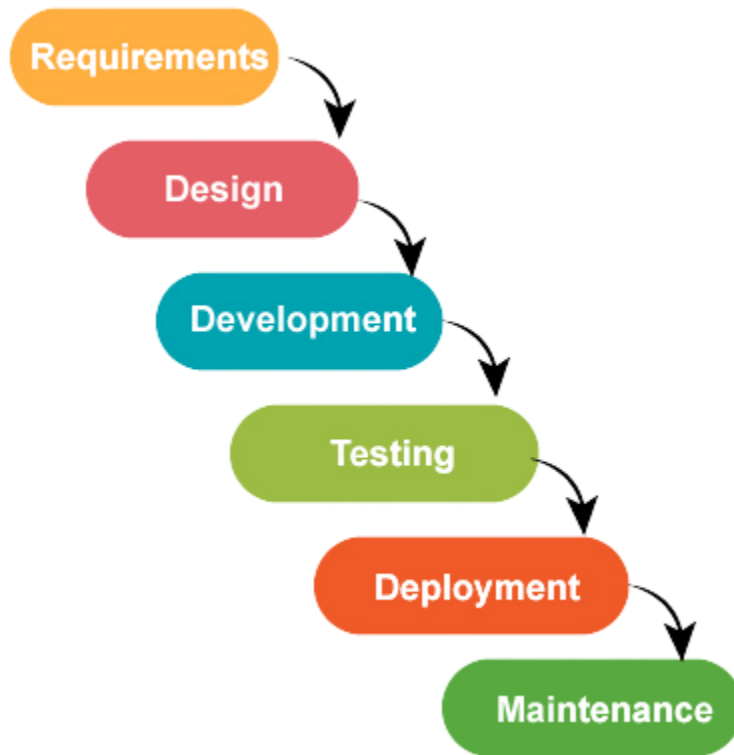
Software Development life cycle (SDLC) is a spiritual model used in project management that defines the stages include in an information system development project, from an initial feasibility study to the maintenance of the completed application.

There are different software development life cycle models specify and design, which are followed during the software development phase. These models are also called "**Software Development Process Models**." Each process model follows a series of phase unique to its type to ensure success in the step of software development.

Here, are some important phases of SDLC life cycle



1) Waterfall Model



A. Requirement & Gathering Analysis

- a) Kick-off meetings
- b) Identify the Stakeholders
 - Meet the Stakeholders
- c) Gather and document the requirements.
- d) Set the objective.
- e) Prepare Software Requirement Specification Document (SRS)
 - Functional and non-functional
- f) Document the Scope
- g) Estimate the Cost
- h) Allocating Resources
- i) Risk Planning
- j) Test Planning

B. Design

a) List of Technical requirements

1. Hardware Requirement

- Processor: Minimum 2 GHz, i5
- Ethernet connection (LAN) or a wireless adapter (WI-FI)
- Minimum free storage space: 20GB
- Memory (RAM); Minimum 4GB

2. Software Requirement

- Axure
- Visual Studio Code
- XAAMP
- MySQL Workbench 8.0.30
- Angular

3. Database Requirement

- MySQL Workbench
- PhpMyAdmin
- MySQL Server

b) Create,

- Wireframe
- Storyboard
- Prototypes

(Home Page, Login Page, Registration Page, Forgot Password Page, Forgot Password Confirmation, Page, Forgot Password Thank You Page, Verification Email Page, Registration Thank You, Page, User Profile Page, User Profile Update Page, Search User Page, etc.)

c) Database Design

- ERD (Entity Relational Diagram)
- EERD (Enhanced Entity Relational Diagram)
- Relational Schema

C. Implementation

a) Develop the source code

b) Implement the database

D. Testing

Testing the software against the requirements

- Conduct unit testing and record results
- Conduct integration testing and record results

- Fixed all issues source code

E. Deployment

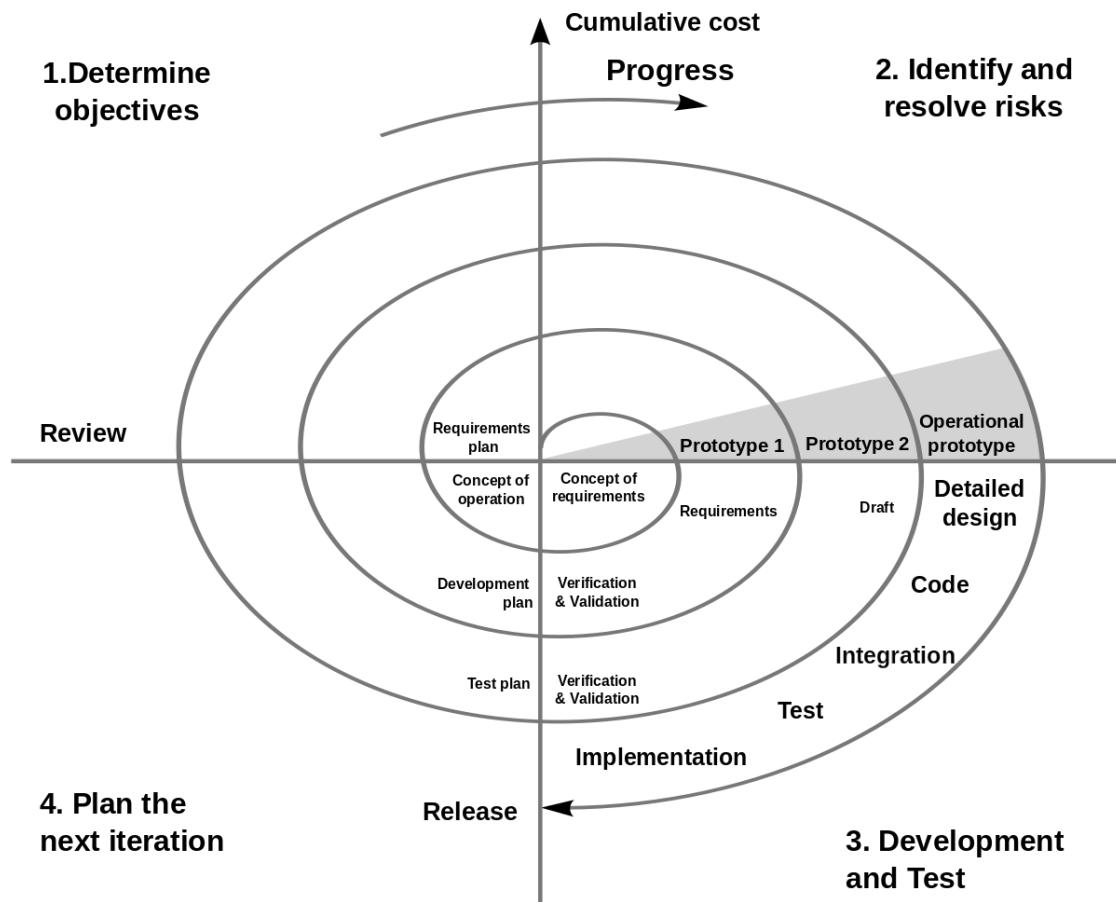
- a) UAT testing
 - Plan
 - Identify and create real-world test scenarios
 - Select the testing team
 - Test and document
 - Update code, Retest, and sign off
- b) Fix errors
- c) Deploy the Website

F. Maintenance

The customer provides feedback on the new software for the project team to look into additionally the project team made two additional testing in the live environment to verify the acceptable deployment

- Provide post-deployment support
- Service level agreement
- Hyper care and support per SLA

2. Spiral Model



A. Planning

- Identify and gathered the system requirements
- Understanding the system requirements (Business and System Requirements Specification) by continuous communication between the customer and the system analyst team members
- Set the objective

Requirements are gathered from customers and objectives are identified, Elaborated, and analyse at the outset

B. Identifying and resolve risks

- a) Document the project risk management plan
- b) Prepare Software Requirement Document (SRS)
 - Functional and Non-Functional
- c) Use Case Document

C. Development and Testing

- a) Testing the software against the requirements
 - ✓ UAT testing
 - Plan
 - Identify and create real-world test scenarios
 - Select the testing team
 - Test and document
 - Update code, Retest, and sign off
- b) Fixed all issues in source code
- c) List of Technical requirements
 - 1. Hardware Requirement**
 - Processor: Minimum 2 GHz, i5
 - Ethernet connection (LAN) or a wireless adapter (WI-FI)
 - Minimum free storage space: 20GB
 - Memory (RAM); Minimum 4GB
 - 2. Software Requirement**
 - Axure
 - Visual Studio Code
 - XAAMP
 - MySQL Workbench 8.0.30
 - Angular
 - 3. Database Requirement**
 - MySQL Workbench
 - PhpMyAdmin
 - MySQL Server
- b) Create,
 - Wireframe
 - Storyboard
 - Prototypes

Assignment 2

Chathushi Jayarathna

(Home Page, Login Page, Registration Page, Forgot Password Page, Forgot Password Confirmation, Page, Forgot Password Thank You Page, Verification Email Page, Registration Thank You, Page, User Profile Page, User Profile Update Page, Search User Page, etc.)

c) Database Design

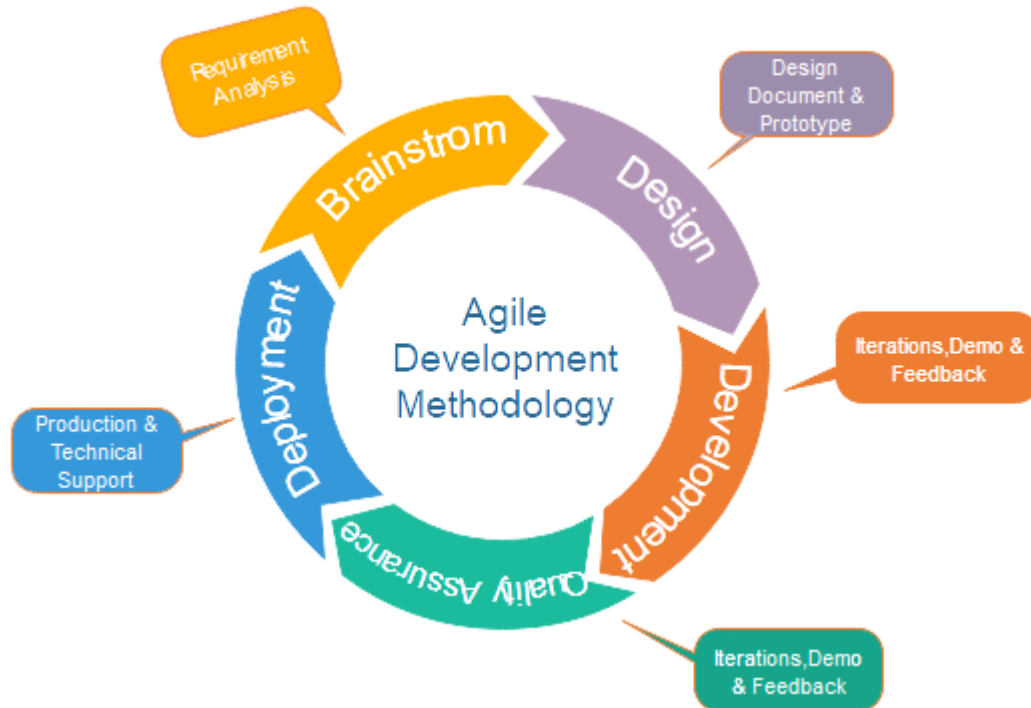
- ERD (Entity Relational Diagram)
- EERD (Enhanced Entity Relational Diagram)
- Relational Schema

The project team may select a pilot group of users to test the software's user-friendliness or to provide user feedback. If the software does not meet the requirements in the requirement document, it is sent back to the software engineers for further implementation.

A. Evaluation

- a) Identifying, estimating, and observing technical feasibility such as schedule slippage and cost overrun
- b) starts with the conceptual design in the baseline spiral and involves the architectural design, logical design of modules, physical product design and final design in the subsequent spirals
- c) allow the customer to evaluate the output of the project to data before the project continues to the next spiral

3. Agile Model



A. Iteration 1: Registration Epic (First Module)

I. Requirement Analysis

- k) Kick-off meetings
- l) Identify the Stakeholders
 - Meet the Stakeholders
- m) Gather and document the requirements.
- n) Set the objective.
- o) Prepare Software Requirement Specification Document (SRS)
 - Functional and non-functional
- p) Document the Scope
- q) Estimate the Cost
- r) Allocating Resources

II. Design

List of Technical requirements

2. Hardware Requirement

4. Processor: Minimum 2 GHz, i5
5. Ethernet connection (LAN) or a wireless adapter (WI-FI)
6. Minimum free storage space: 20GB
7. Memory (RAM); Minimum 4GB

1. Software Requirement

- Axure
- Visual Studio Code
- XAAMP
- MySQL Workbench 8.0.30
- Angular

2. Database Requirement

- MySQL Workbench
- PhpMyAdmin
- MySQL Server

b) Create,

- Wireframe
- Storyboard
- Prototypes

(Registration Page, Verification Email Page, Registration Thank You_

c) Database Design

- ERD (Entity Relational Diagram)
- EERD (Enhanced Entity Relational Diagram)
- Relational Schema

III. Development

When the team defines the requirements, the work begins. Designers and developers start working on their project, which aims to deploy a working product. The product will undergo various stages of improvement, so it includes simple, minimal functionality.

- a) Develop Source code
- b) Implement the database

IV. Testing

- a) Test the system to ensure the code is clean
- b) Conduct integration testing and record results.
- c) Fixed all troubles in source code

V. Deployment

After releasing the registration epic, the last step is feedback. In this, the team receives feedback about the registration epic and works through the feedback.

- a) UAT Testing
- b) Fix errors
- c) Deploy the Registration epic

B. Iteration 2: Login Epic (Second Module)

I. Requirement Analysis

- a) Kick-off meetings
- b) Identify the Stakeholders
 - Meet the Stakeholders
- c) Gather and document the requirements.
- d) Set the objective.
- e) Prepare Software Requirement Specification Document (SRS)
 - Functional and non-functional
- f) Document the Scope
- g) Estimate the Cost
- h) Allocating Resources

II. Design

- a) List of Technical requirements

- 1. Hardware Requirement
- 8. Processor: Minimum 2 GHz, i5
- 9. Ethernet connection (LAN) or a wireless adapter (WI-FI)
- 10. Minimum free storage space: 20GB
- 11. Memory (RAM); Minimum 4GB

- 2. Software Requirement
 - Axure
 - Visual Studio Code
 - XAAMP
 - MySQL Workbench 8.0.30

Assignment 2

Chathushi Jayarathna

- Angular

3. Database Requirement

- MySQL Workbench
- PhpMyAdmin
- MySQL Server

a) Create,

- Wireframe
- Storyboard
- Prototypes

(Login Page, Forget Password Page, Email Verification, Forget Password Thank You Page)

b) Database Design

- ERD (Entity Relational Diagram)
- EERD (Enhanced Entity Relational Diagram)
- Relational Schema

III. Development

When the team defines the requirements, the work begins. Designers and developers start working on their project, which aims to deploy a working product. The product will undergo various stages of improvement, so it includes simple, minimal functionality.

- a) Develop Source code
- b) Implement the database

IV. Testing

- a) Test the system to ensure the code is clean
- b) Conduct integration testing and record results.
- c) Fixed all troubles in source code

V. Deployment

After releasing the Login epic, the last step is feedback. In this, the team receives feedback about the login epic and works through the feedback.

- c) UAT Testing
- d) Fix errors
- e) Deploy the Registration epic

C. Iteration 3: Forgot Password Epic (Third Module)

I Requirement Analysis

- a) Kick-off meetings
- b) Identify the Stakeholders
 - Meet the Stakeholders
- c) Gather and document the requirements.
- f) Set the objective.
- g) Prepare Software Requirement Specification Document (SRS)
 - Functional and non-functional
- h) Document the Scope
- i) Estimate the Cost
- j) Allocating Resources

II Design

- a) List of Technical requirements
 - 1. Hardware Requirement**
 - Processor: Minimum 2 GHz, i5
 - Ethernet connection (LAN) or a wireless adapter (WI-FI)
 - Minimum free storage space: 20GB
 - Memory (RAM); Minimum 4GB
 - 2. Software Requirement**
 - Axure
 - Visual Studio Code
 - XAAMP
 - MySQL Workbench 8.0.30
 - Angular
 - 3. Database Requirement**
 - MySQL Workbench
 - PhpMyAdmin
 - MySQL Server
- b) Create,
 - Wireframe

Assignment 2

Chathushi Jayarathna

- Storyboard
- Prototypes

(Forgot Password Page, Verification Email, Forgot Password Thank You Page)

c) Database Design

12. ERD (Entity Relational Diagram)
13. EERD (Enhanced Entity Relational Diagram)
14. Relational Schema

III Development

When the team defines the requirements, the work begins. Designers and developers start working on their project, which aims to deploy a working product. The product will undergo various stages of improvement, so it includes simple, minimal functionality.

- a) Develop Source code
- b) Implement the database

IV Testing

- a) Test the system to ensure the code is clean
- b) Conduct integration testing and record results.
- c) Fixed all troubles in source code

V Deployment

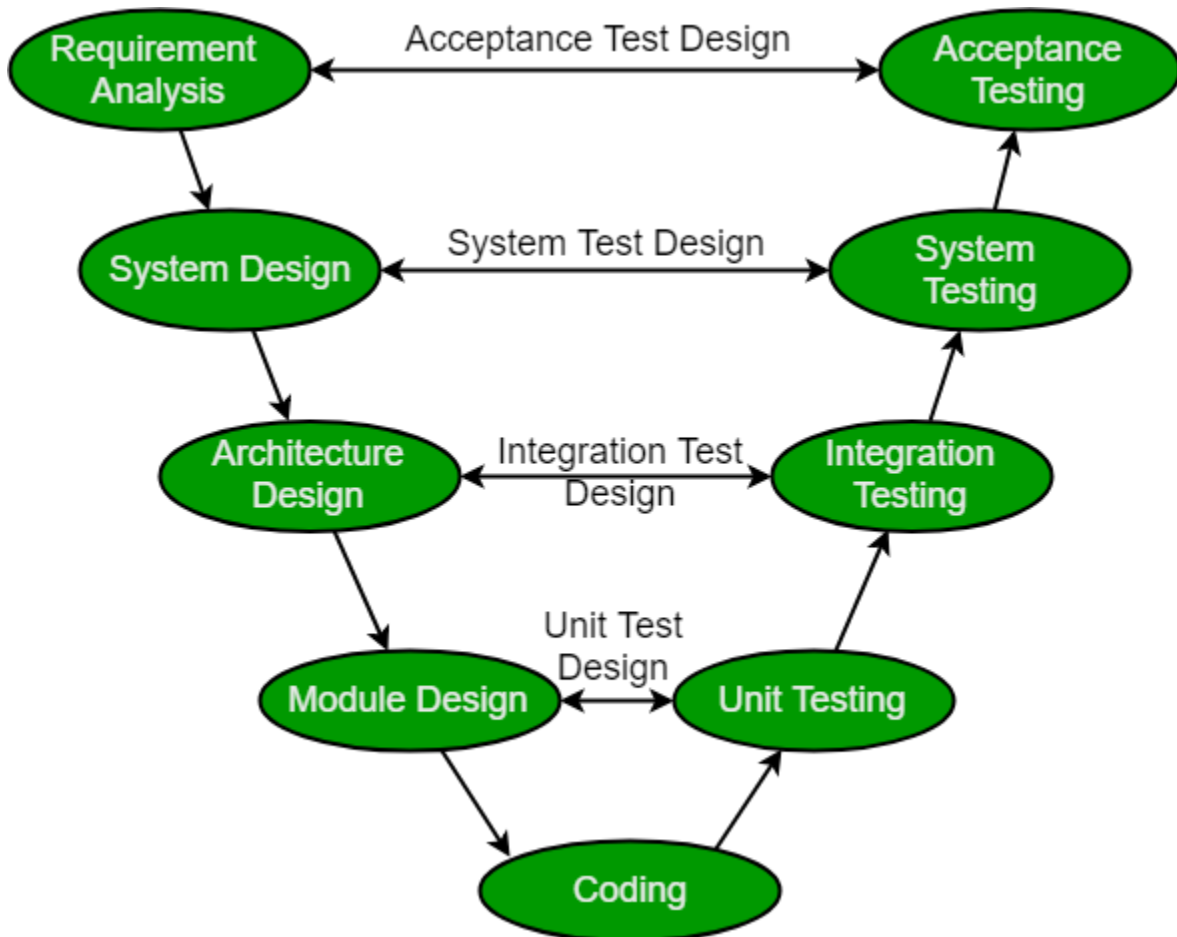
After releasing the Forgot Password epic, the last step is feedback. In this, the team receives feedback about the Forgot Password epic and works through the feedback.

- a) UAT Testing
- b) Fix errors
- c) Deploy the Registration epic

Additional Support

- Set up the master team, arrange the meeting and remove obstacles to the process

4. V-Model



I. Requirement Analysis

- Kick-off meetings
- Identify the Stakeholders
 - Meet the Stakeholders
- Gather and document the requirements.
- Acceptance test design planning

II. Architecture Design

a) List of Technical requirements

1. Hardware Requirement

- Processor: Minimum 2 GHz, i5
- Ethernet connection (LAN) or a wireless adapter (WI-FI)
- Minimum free storage space: 20GB
- Memory (RAM); Minimum 4GB

2. Software Requirement

- Axure
- Visual Studio Code
- XAAMP
- MySQL Workbench 8.0.30
- Angular

3. Database Requirement

- MySQL Workbench
- PhpMyAdmin
- MySQL Server

III. Design

a) Create,

- Wireframes
- Storyboards
- Prototypes

(Home Page, Login Page, Registration Page, Forgot Password Page, Forgot Password Confirmation, Page, Forgot Password Thank You Page, Verification Email Page, Registration Thank You Page, User Profile Page, User Profile Update Page, Search User Page etc.)

b) Business process Diagram

Create a diagram that depicts a directed flow of activities that are specified by using a subset of Business Process Modelling Notation

c) Database Design

- ERD (Entity Relational Diagram)
- EERD (Enhanced Entity Relational Diagram)
- Relational Schema

IV. Implementation

- a) Develop the source code

V. Unit Testing

- d) Prepare and Review the UT
- e) Make Test cases and Scripts
- f) Test Source codes

VI. Integration Testing

- a) Prepare the test plan
- b) Design test cases, test scenarios, use cases and scripts
- c) Run tests after unit integration
- d) Detect, report and fix errors.
- e) Retest functionalities after fixing bugs
- f) Repeat the process until all bugs are found and fixed

VII. System Testing

- a) Setup test environment
- b) Generate Test cases
- c) Generate testing data
- d) Execute test cases
- e) Defect Reporting
- f) Regression testing
- g) Log defects
- h) Retest

VIII. Acceptance Testing

- a) Business Requirement Analysis
- b) Design Acceptance Test Plan
- c) Design and review acceptance test
- d) Acceptance test bed set up
- e) Acceptance test data set up
- f) Acceptance test execution
- g) Business decision

Advantages and Disadvantages of SDLC Models

SDLC Model	Advantages	Disadvantages
Waterfall Model	<ul style="list-style-type: none">• Easy to understand• Easy to manage• Has fewer production issues• Better budget management	<ul style="list-style-type: none">• It is not flexible• Does not handle unexpected risk well• Not good for complex or long-term projects• Difficult to capture all requirements upfront
Spiral Model	<ul style="list-style-type: none">• Risk Handling• Flexible in Requirements• Customer Satisfaction	<ul style="list-style-type: none">• Expensive• Too much dependable on Risk Analysis• Difficulty in time management
Agile Model	<ul style="list-style-type: none">• Save time and Money• Flexible and Adaptable• It reduces total development time	<ul style="list-style-type: none">• Planning can be less concrete• Documentation can be neglected
V-Model	<ul style="list-style-type: none">• Simple and easy to use• Protective defect tracking	<ul style="list-style-type: none">• Poor resource allocation• Need crystal clear requirements

SDLC Chosen Method = Spiral Method

When the word 'risk' comes to mind first then, the best methodology for developing a website is the 'Spiral Model' because the critical benefit of the spiral model is the risk assessment and analysis that are also necessary for this system and the prototype that will be an excellent approach to convey the system's expectations. According to the project requirements it is a small project with limited time period while the cost is not that much great to go with SDLC model like agile and V-Shaped. Agile is used for vast enterprise application where things are updating on daily basic.

Technologies:

- Front-End Tech: ReactJS
- Back-end Tech.: Spring boot.
- Database: MySQL
- IDEs: Spring Tool Suite, Visual Studio Code

System Requirements

➤ Operating System

- Windows 7 or above
- Android 7 or above
- Mac 9 or above
- iOS 12 or above

➤ Hardware Requirements

- Intel Xeon 6TH Gen or Newer CPU
- Ram - 16 GB
- Rom - 1 TB (OS)
- Rom – 16 TB (Data)
- Monitor
- Mouse and Keyboard

➤ Software Requirements

- Programming Language – Java 11
- Database – MySQL
- Web Server - Tomcat