Information Technology Department
Birla Vishvakarma Mahavidyalaya Engineering College
(An Autonomous Institution)
AY: 2023-24, Semester II

LAGNI - A Food Waste Donation App.

MINI PROJECT (3IT31)

Prof : Dharmesh Patel , Bijal Dalwadi

Presente By :

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Project Definition

"Lagni" is an app that connects food donors with NGOs and individuals in need to redistribute surplus food, reducing waste and aiding communities. Its user-friendly interface promotes social responsibility, scheduling donations, and coordinating deliveries. To enhance impact, it should prioritize accessibility, safety, community engagement, partnerships, education, and data analytics. These efforts will ensure efficient resource distribution and long-term positive effects on food insecurity.

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Objectives

- Facilitate Surplus Food Redistribution
- Promote Social Responsibility
- Streamline Donation Process
- Empower NGOs and Community Organizations
- Raise Awareness About Food Waste
- Ensure User Privacy and Security
- Measure Impact and Effectiveness

Scope

- "Lagni" is a comprehensive food waste donation application that facilitates the efficient transfer of surplus food from donors to communities in need.
- The system's primary goal is to bridge the gap between surplus food and those who require it.
- It includes features for food donation scheduling, rider coordination.
- "LAGNI" aligns with the principles of social responsibility and strives to make a positive impact on communities facing food insecurity.

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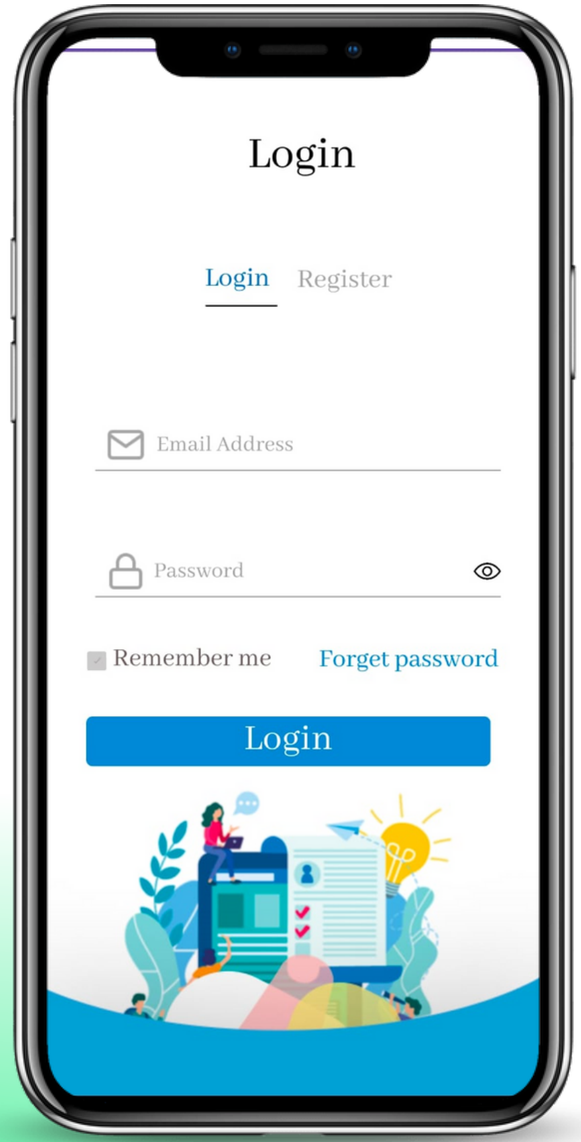
Project Modules

- **Registration and Authentication:**

Donors can create accounts or log in to access the application. Ensure secure authentication methods for user logins.



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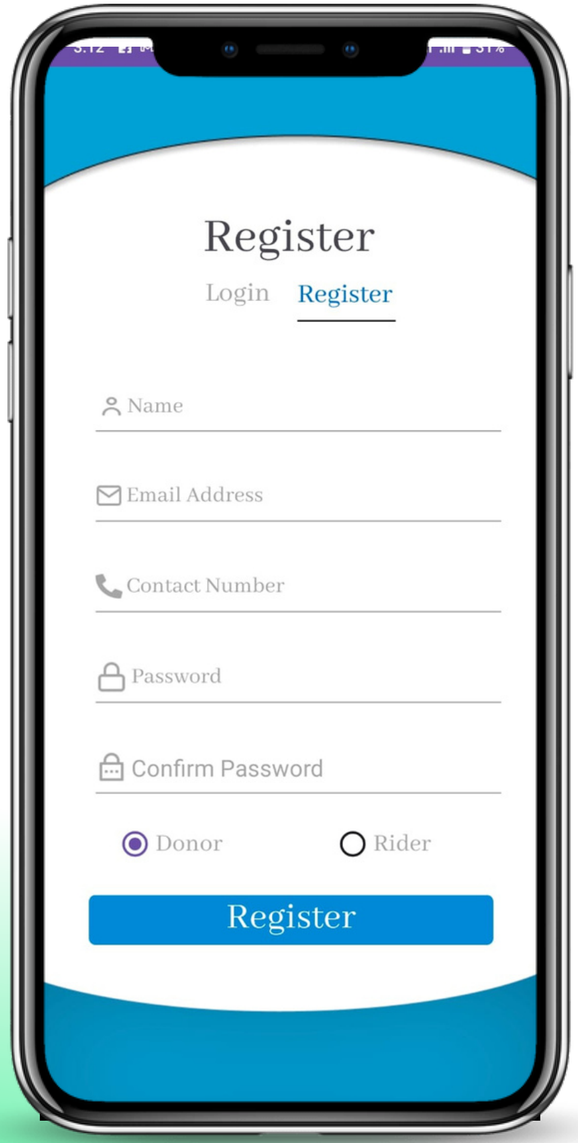
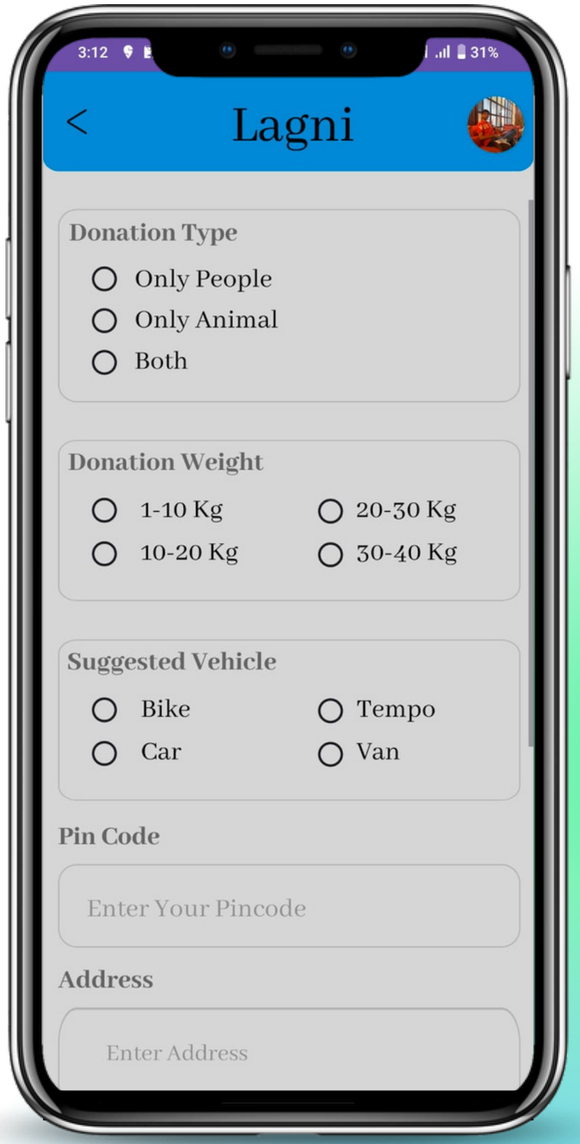


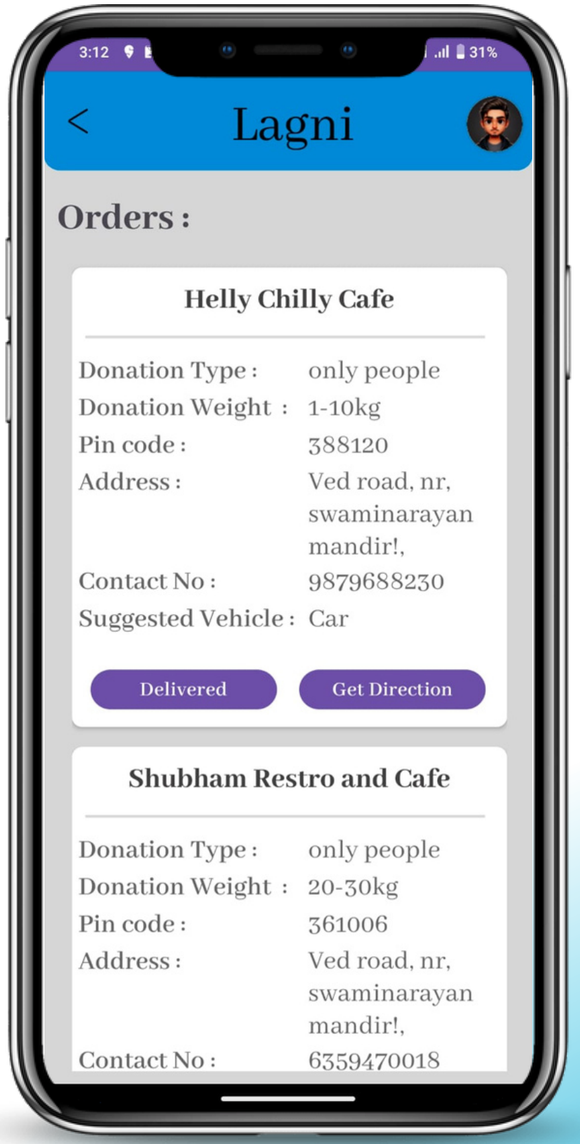
Project Modules

- **Food Donation Scheduling:** Donors can schedule food donations, specifying the type and quantity of surplus food. Provide an intuitive calendar-based interface for easy scheduling.



Project Modules

- **Donation History:** Maintain a record of past donations for donors to track their contribution.



Project Basic Requirment

Hardware Requirments

- **Device**: The user would need an Android-compatible device such as a smartphone or tablet.
- **Processor**: A device with a processor capable of running Android applications smoothly.
- **Storage**: Adequate storage space to install the application and store data generated by the app. (Approx 100MB)

Software Requirments

- **Operating System:** (Above Android 6.0)
- **Permissions**: (Storage, Location,etc)
- **Internet Connectivity:** Lagni requires an active internet connection to operate efficiently.

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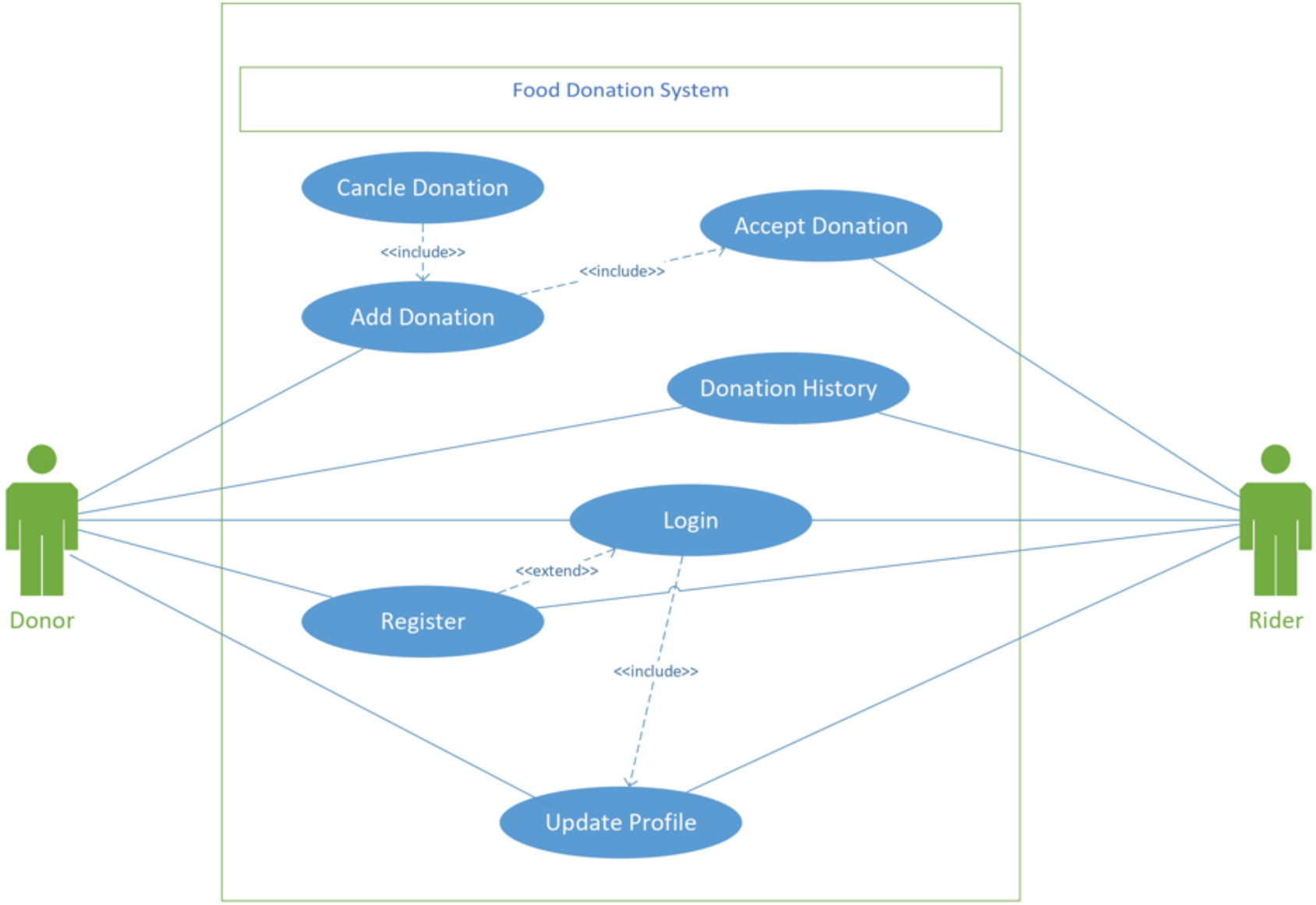
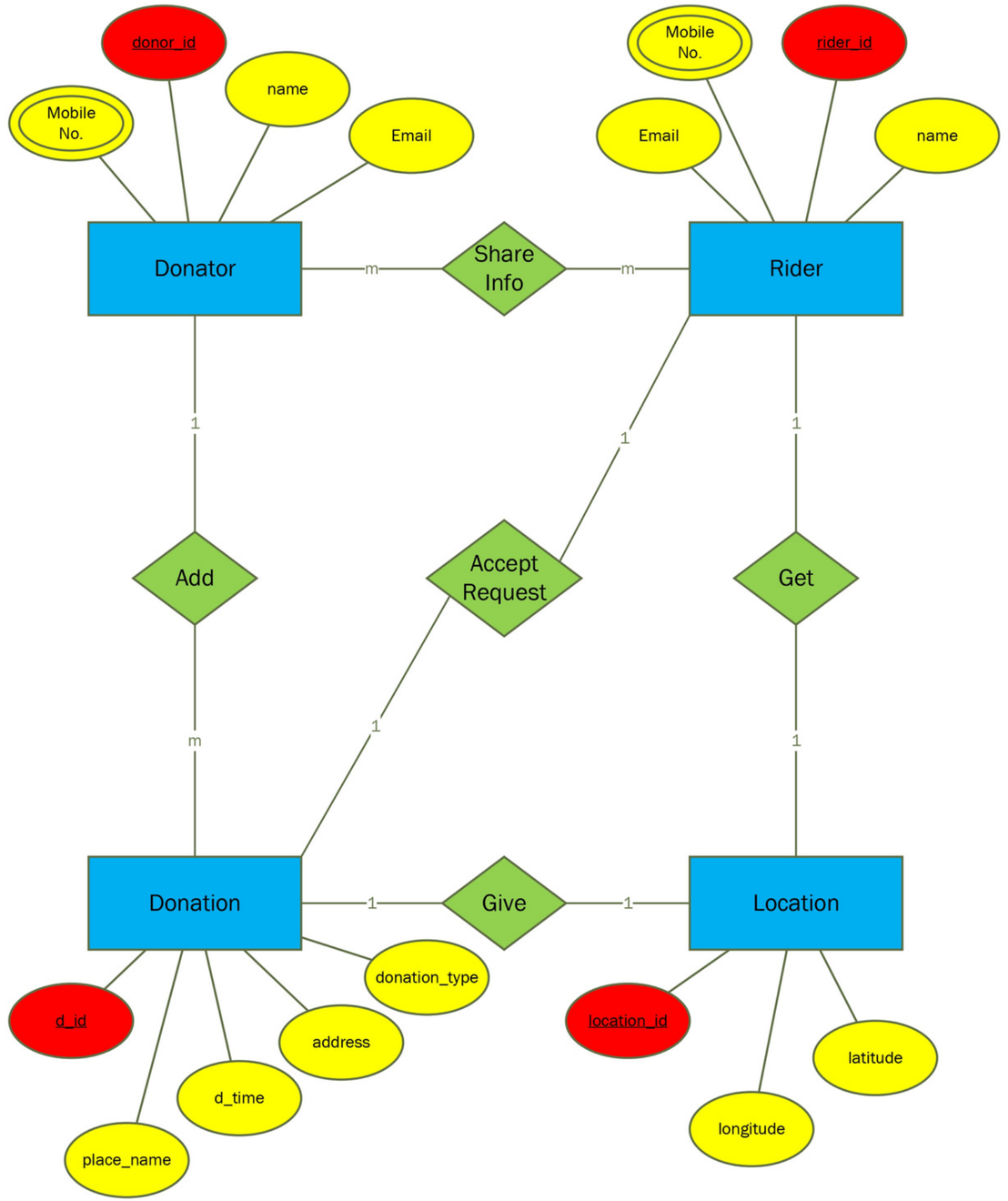
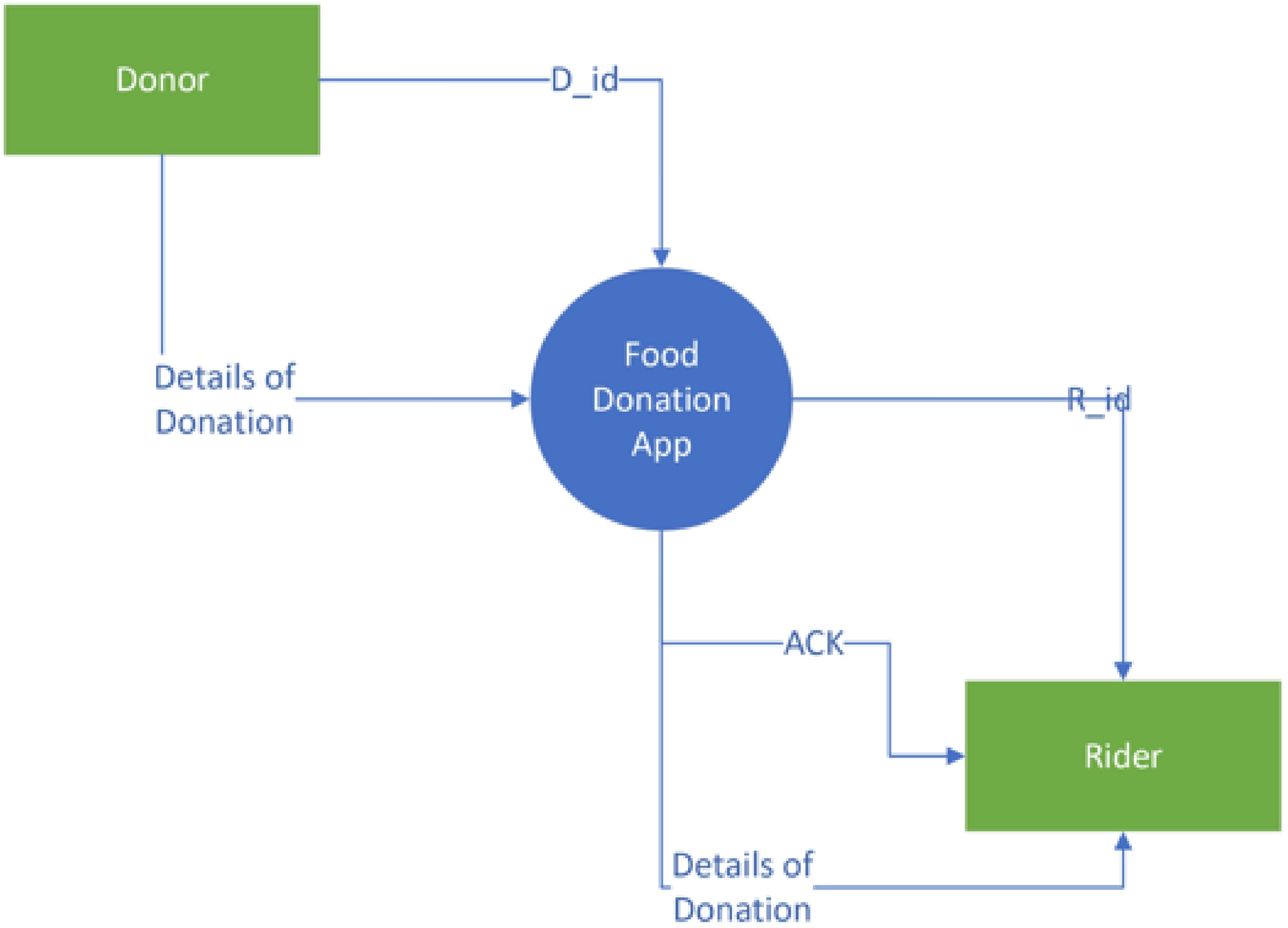
Use Case Diagram



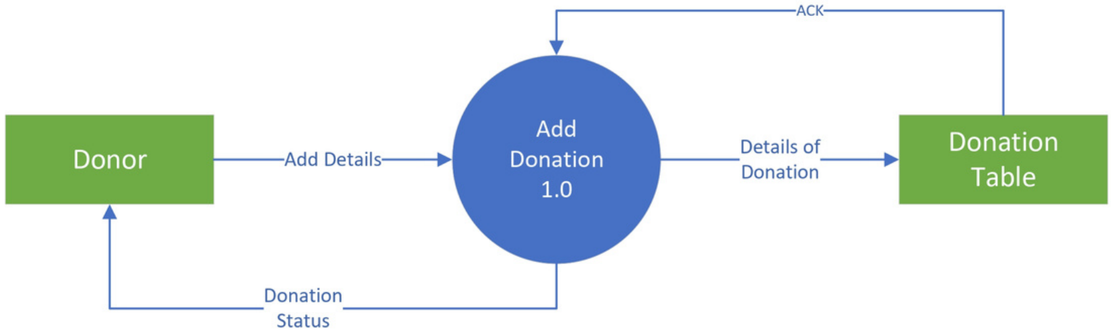
ER Diagram

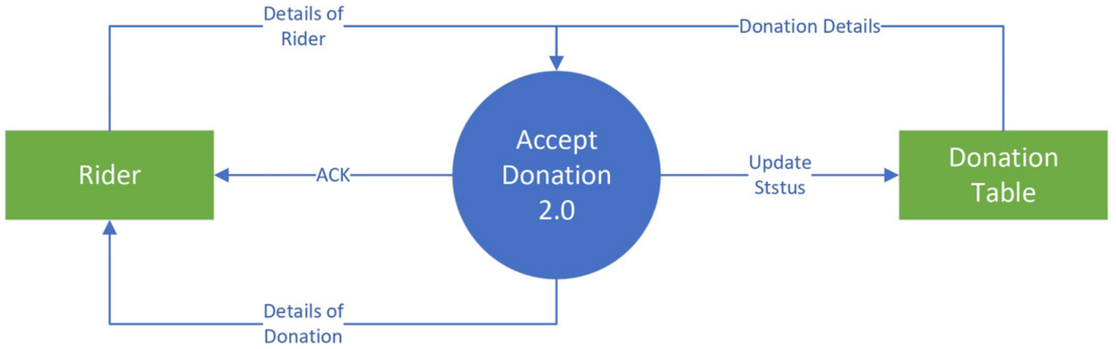

donor_id
name
Mobile No.
Email
Donator
m
Share Info
m
Mobile No.
rider_id
Email
name
Rider
1
1
1
Add
Accept Request
Get
m
1
1
Donation
1
Give
1
Location
donation_type
d_id
address
location_id
latitude
d_time
longitude
place_name

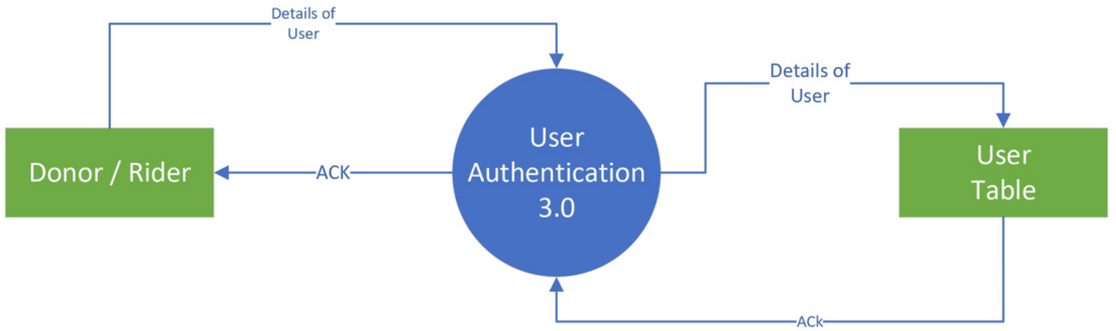

Donor
D_id
Details of Donation
Food Donation App
R_id
ACK
Rider
Details of Donation

DFD LEVEL 0

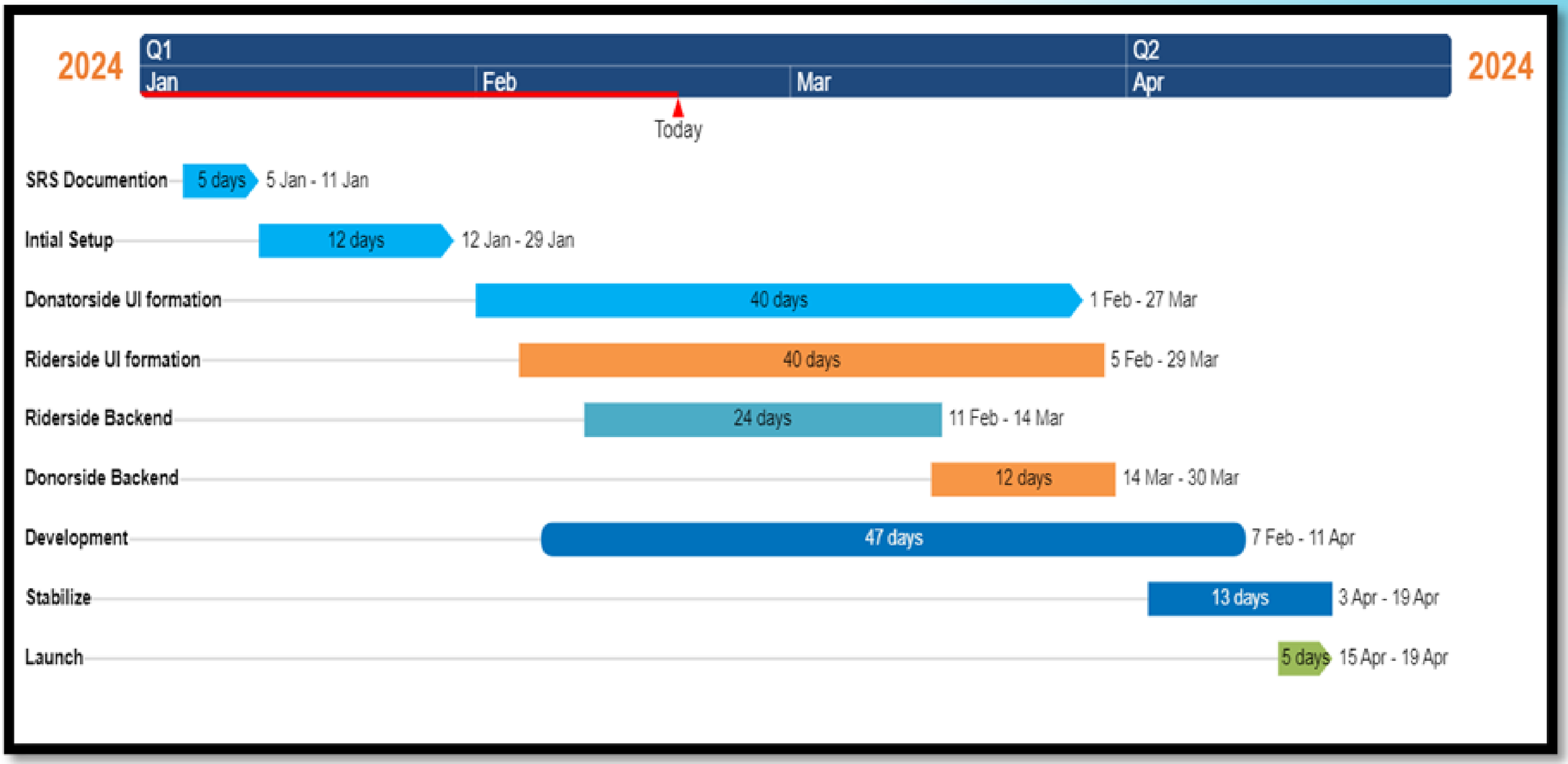
DFD LEVEL 1


ACK
Donor
Add Details
Add Donation 1.0
Details of Donation
Donation Table
Donation Status

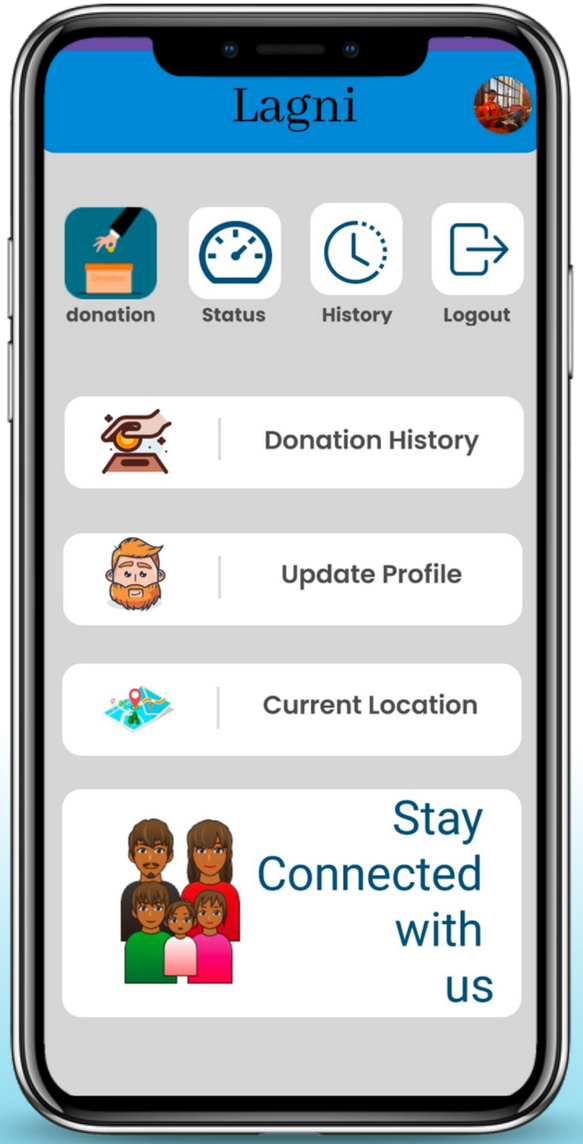

Details of Rider
Donation Details
Rider
ACK
Accept Donation 2.0
Update Ststus
Donation Table
Details of Donation

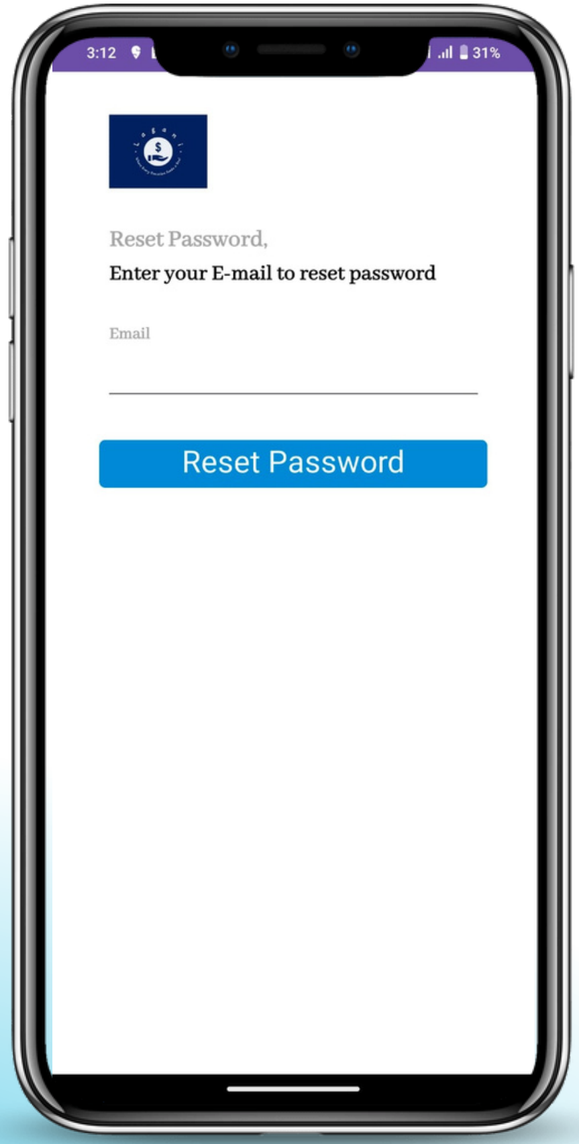

Details of User
Details of User
Donor / Rider
ACK
User Authentication 3.0
User Table
ACk

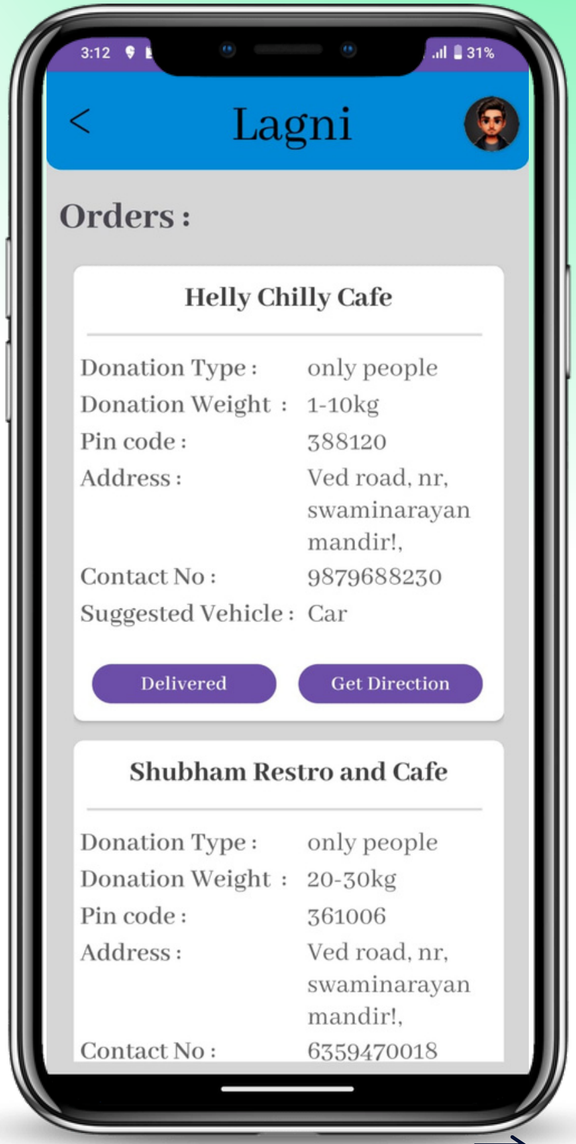
Project Timeline Chart



Project Implimentation







THANK YOU !