

PROPOSAL PRESENTATION

Application for Collecting & Managing Non Biodegradable Waste

SCS 2202 - Group Project 1 CS Group - 01

Our Group Members

Project supervisor - Mr. Asanka Sayakkara

Project co supervisor - Ms. Sanjani Gunathilaka



D.S.K. Weerakoon 2021 /CS/ 209



G.A. Pramuditha 2021 /CS/ 141



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P.G.N. Maduwanthi 2021 /CS/ 115

01 Problem Definition

- Non Biodegradable Waste Disposal
- Persist in the environment for hundred years
- Huge impact on Wild-life, Ecosystems and Humans





02 Introducing





Introducing ECO PLUS



What is Eco Plus?

- Web based Application
- Manage non-biodegradable Waste
 Collection
- Gives Users their Waste Values as Eco Credits which can be Claimed On Supermarkets

03 Project Goals



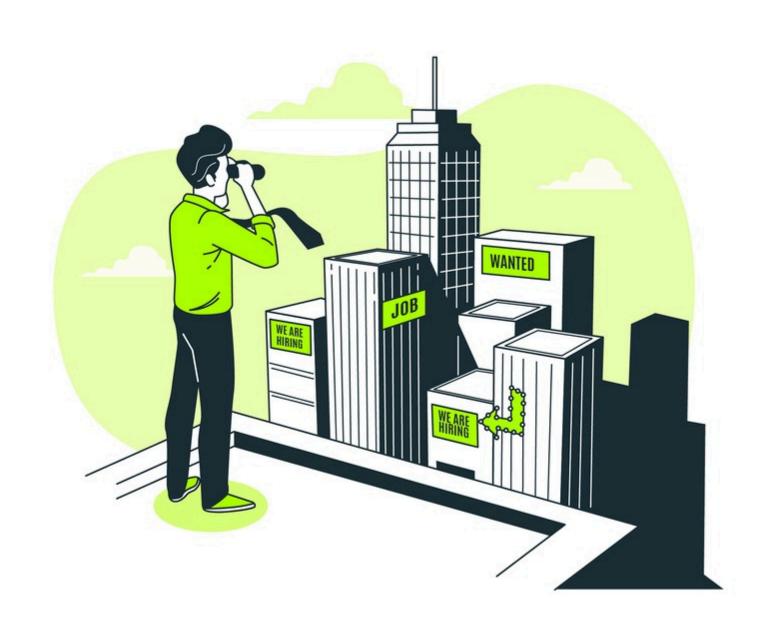


Non-Biodegradable Waste Collection

Promote Sustainable Shopping

Create an User-friendly Web Application

04 Project Scope





In-Scope

- Online Waste Collection Requests
- Garbage Collection Management
- Booking of Clean up Events
- User Registration and Login
- Registration and Management of Staff
- Update and Track Customer Credits
- Offer Discounts for Customers

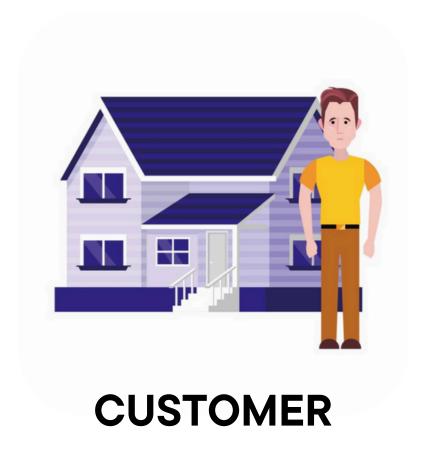


Out - Scope

- Recycling Process of Collected Non-Degradable Garbage
- Managing the Financial Section of the Company
- Billing Process of the Supermarkets
- Tracking the Collector Visits on the Field
- Collector Assistant is not a User of the System



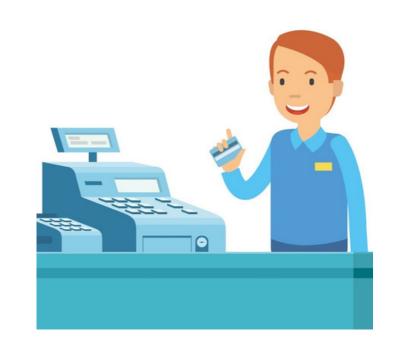
05 Identified Users







COLLECTOR REGIONAL CENTER MANAGER

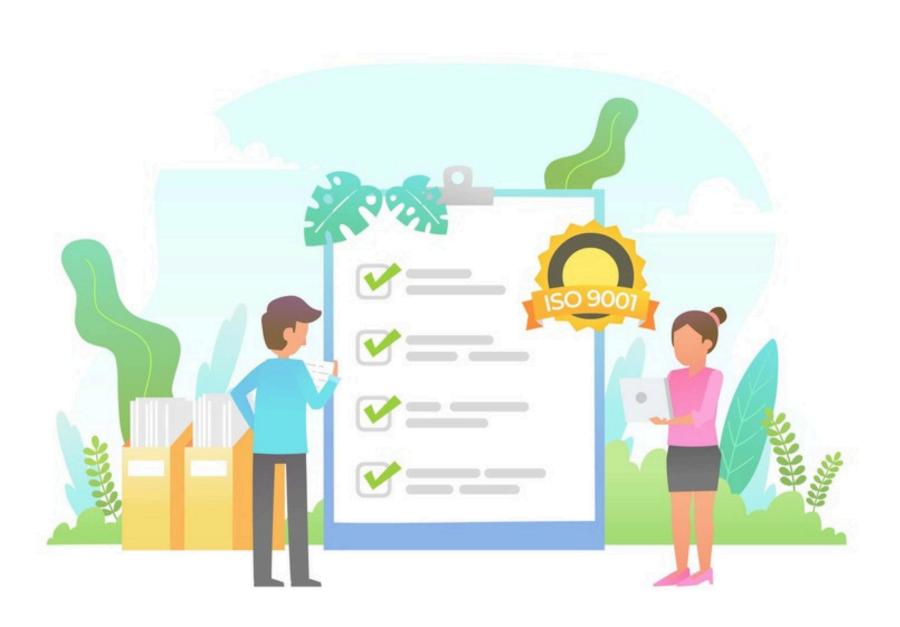






ADMIN

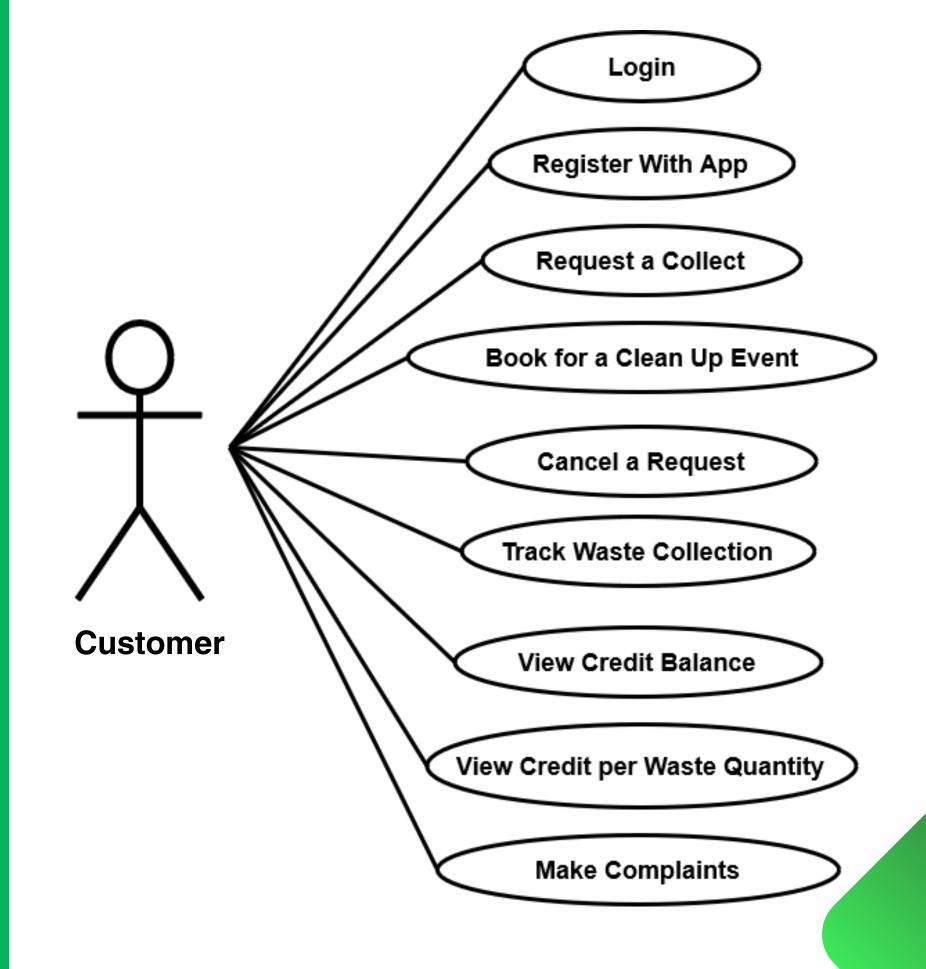
O6 Functional Requirements





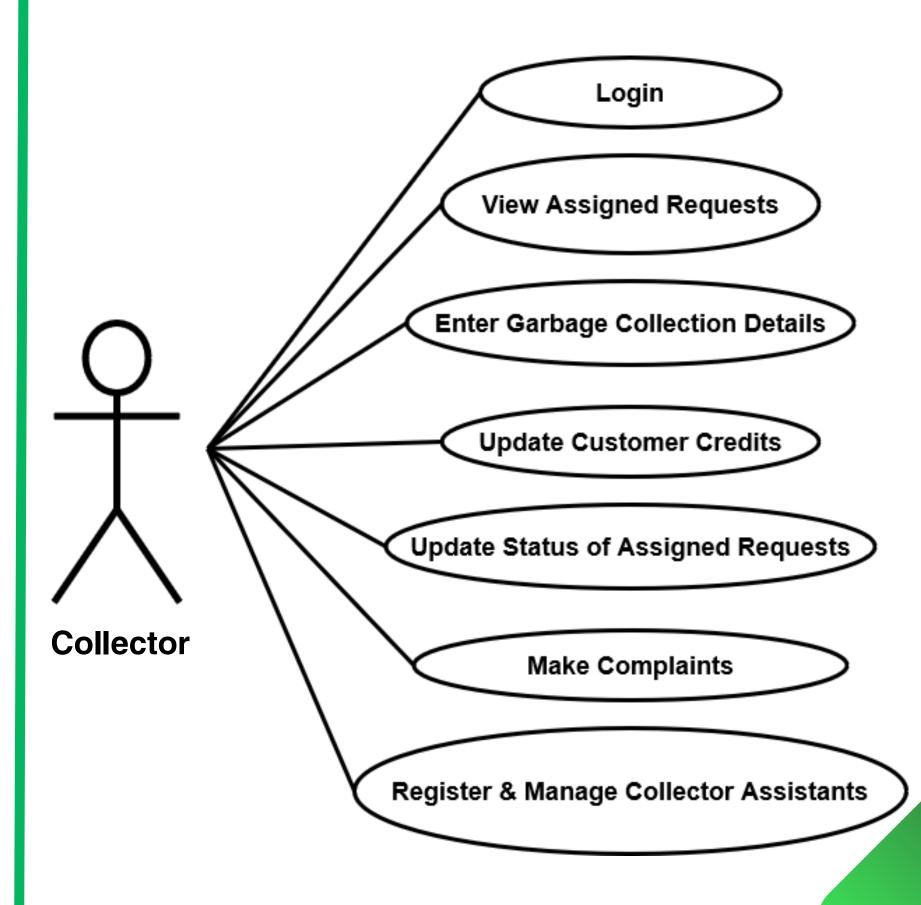
Customer

- Register, Login
- Request Garbage Collection Service
- Book for a Clean Up Events
- Cancel Garbage Collection Request
- View Waste Collection History
- View Credit Balance
- View Credit per Waste Quantity
- Make Complaints



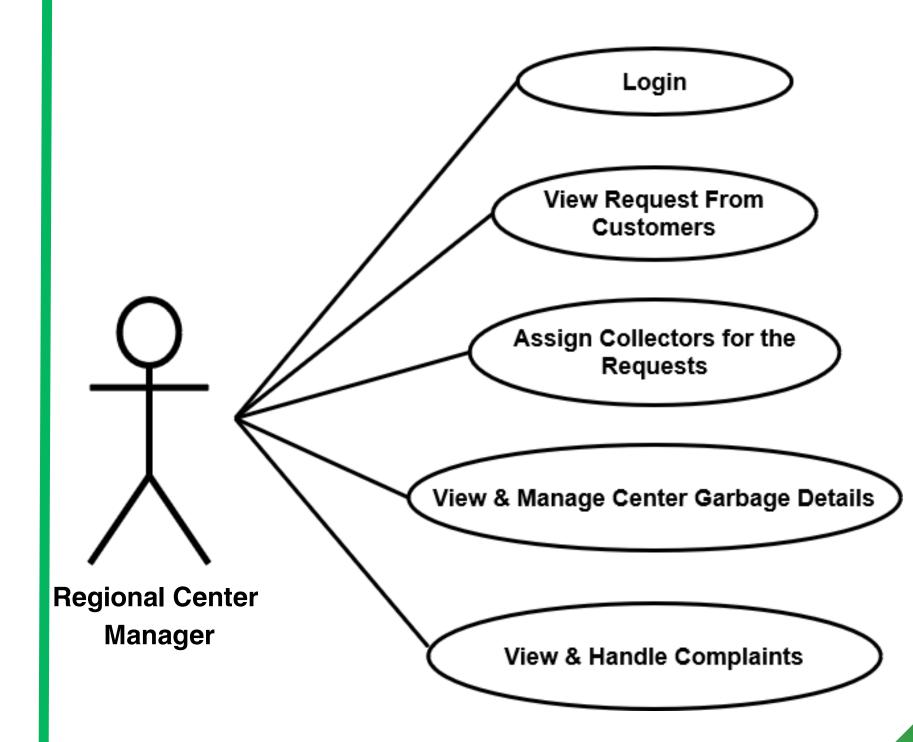
Collector

- Login
- View Assigned Customer Requests
- Enter Garbage Collection Details
- Update Customer Credits
- Update Status of Assigned Requests
- Make Complaints
- Register & Manage Collector Assistants



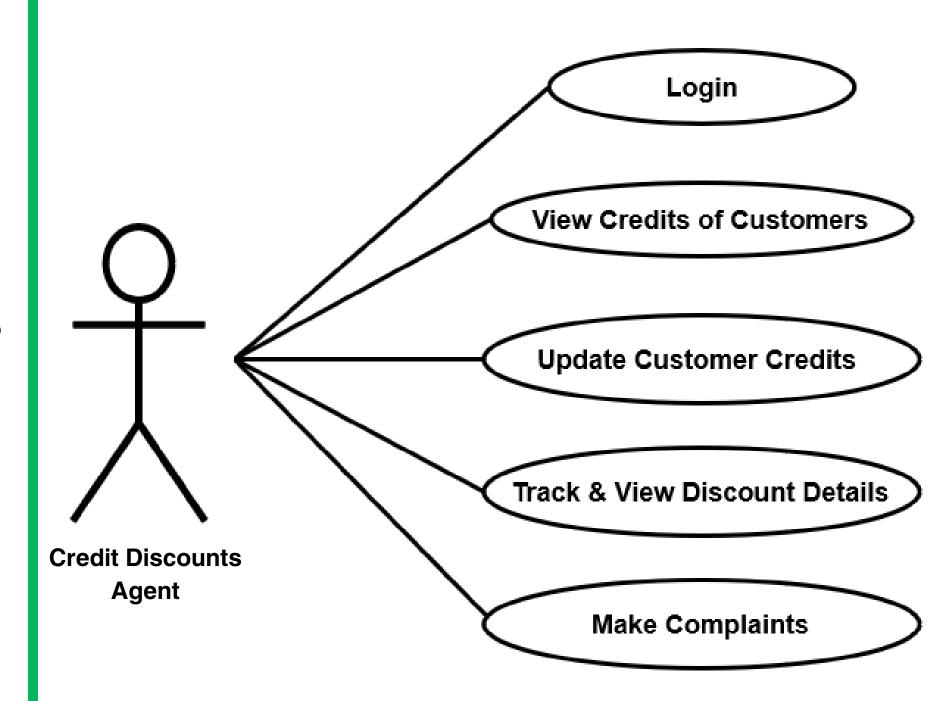
Regional Center Manager

- Login
- View Request From Customers
- Assign Collectors for the Requests
- View & Manage Center Garbage Details
- View & Handle Complaints



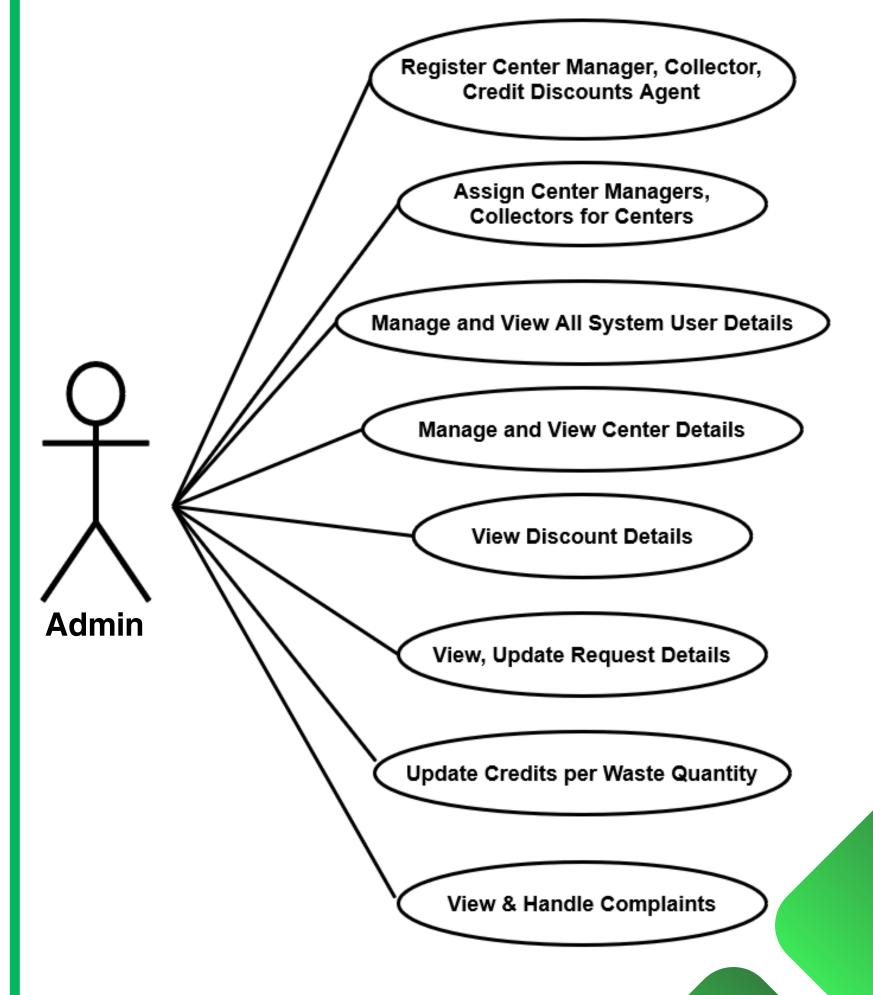
Credit Discounts Agent

- Login
- Update Customer Credits by Giving Discounts
- View Credits of Customers
- Track & View Discount Details
- Make Complaints



<u>Admin</u>

- Register Center Manager, Collector,
 Credit Discounts Agent
- Assign Center Managers, Collectors for Centers
- Manage and View All System User Details
- Manage and View Center Details
- View Discount Details
- View, Update Request Details
- Update Credits per Waste Quantity
- View & Handle Complaints



O7 Quality Attributes

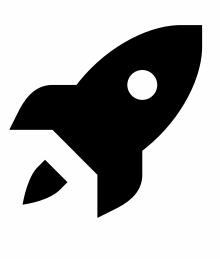




Quality Attributes



Simple and user-friendly interface to navigate and access waste details easily



Performance

Response to user activities with minimal lag in displaying waste collection status and credits.

Quality Attributes



Security

Secure login process and protect user details



Realiability

Ensure that waste collection process is carried out without any delays and failures



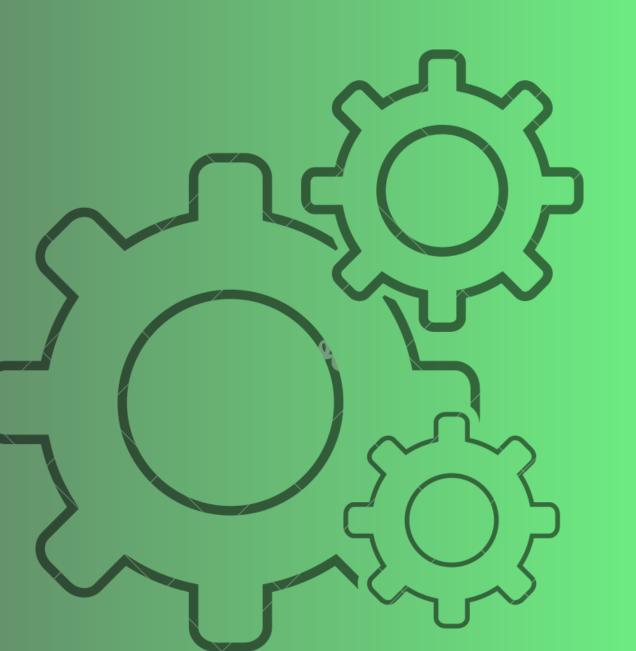
Availability

100% active except during maintenance or crashes



O8 Feasibility
Study

Technical Feasibility



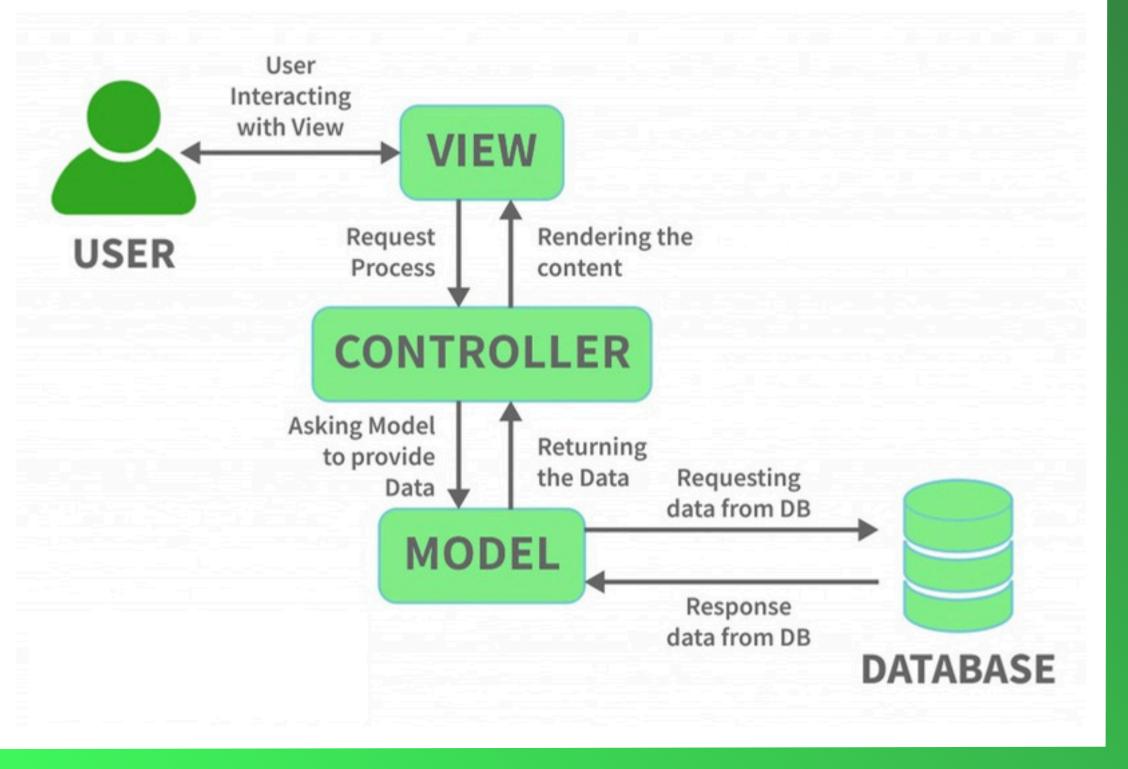
Use Open Source Softaware

- Have many Online Resources
- Easy to Use and Learn those
 Technologies within the given Time

Backend Collabaration **Frontend** Storage MySQL³ JS Google Meet Google Drive UI/UX **Documentation Version Control** Diagrams & Modeling **Prototyping** draw.io **Project Management Text Editors** API **Jira** Google Maps

Softaware Architecture

MVC Architecture



Operational Feasibility



Users with

- Basic Technical Knowledge
- Basic English Knowledge
- Can Easily Connect with Application

Fully Responsive Web Design

Economical Feasibility



- Use of Open Source Technologies & Tools
- No Development Cost

Cost-effective

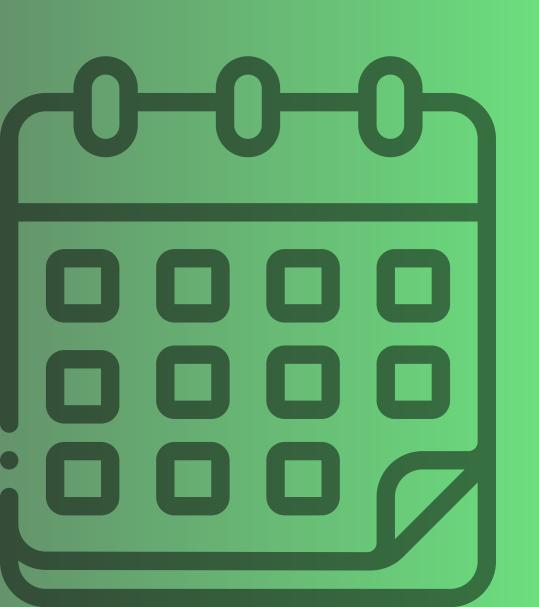
Legal Feasibility and Ethical Feasibility



User Data Will be Secured

- User Privacy Will be Protected
- No Copyright Issues
- Passwords Will be Hashed
- Will not be Violated any Legal Act

Schedule Feasibility



 Each Member will Work on 5 Hours for a week

Doable within 10 months

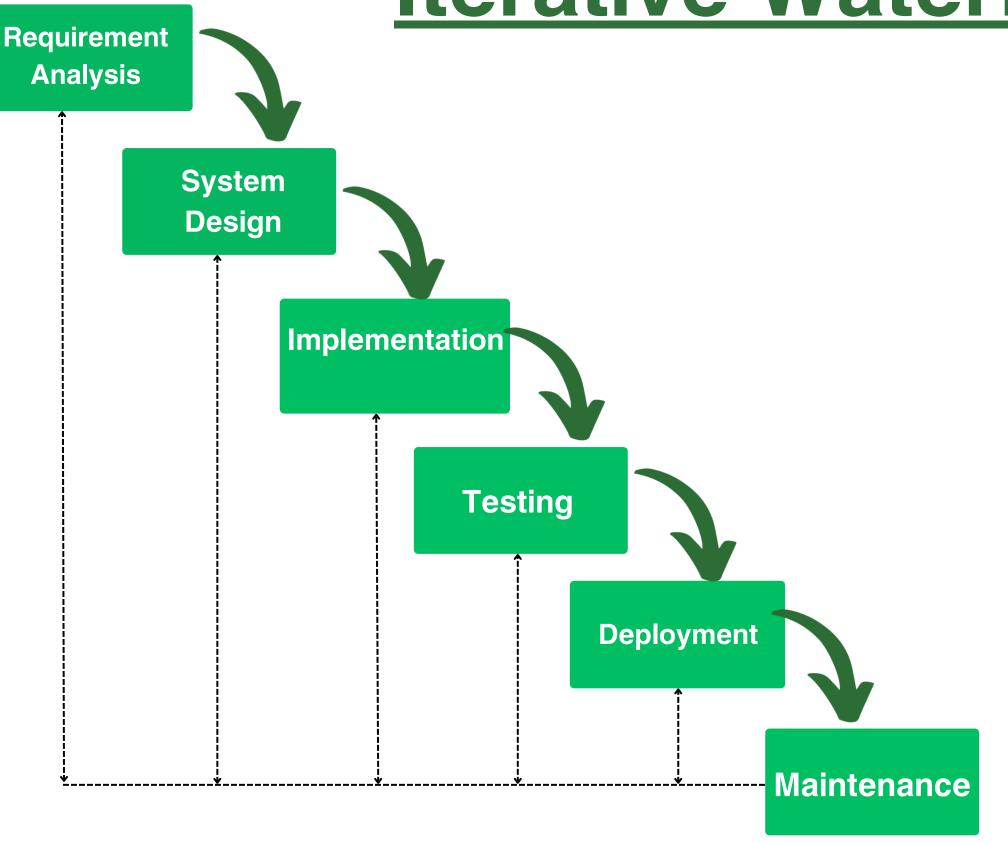
 Guaranteed On-Time Delivery by Sticking into the Project Timeline

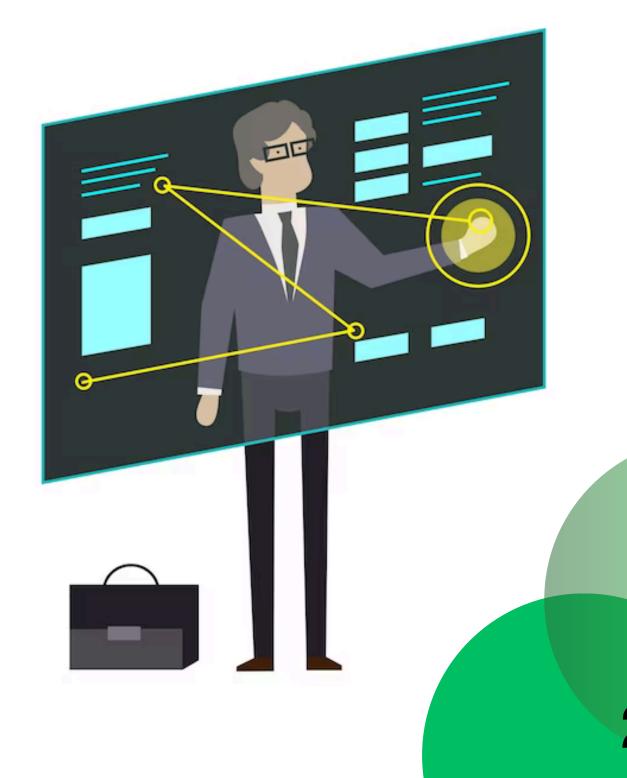
Gantt Chart



09 Software Developement Model

Iterative Waterfall Model





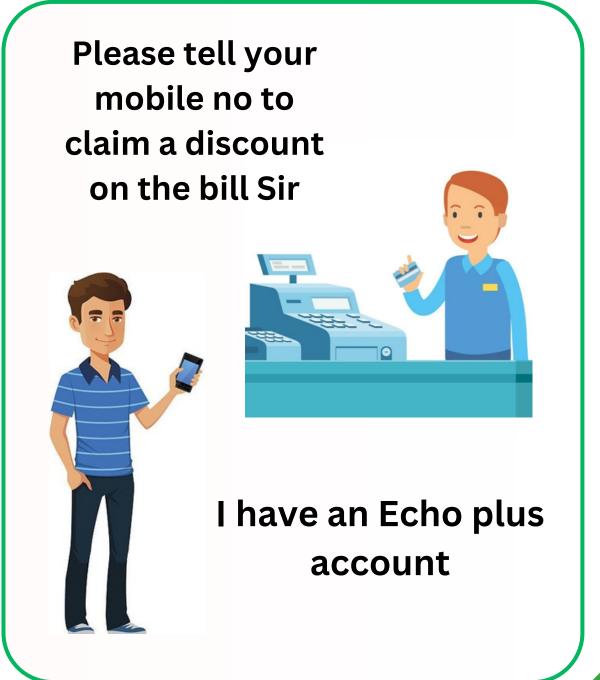
10 Workload Distribution

Customer	P.G.N Maduwanthi
Collector	D.S.K Weerakoon
Regional Center Manager	K.D Dinushika
Credit Discounts Agent	G.A Pramuditha
Admin	All Members

Summary

I will request a collect from Echo Plus

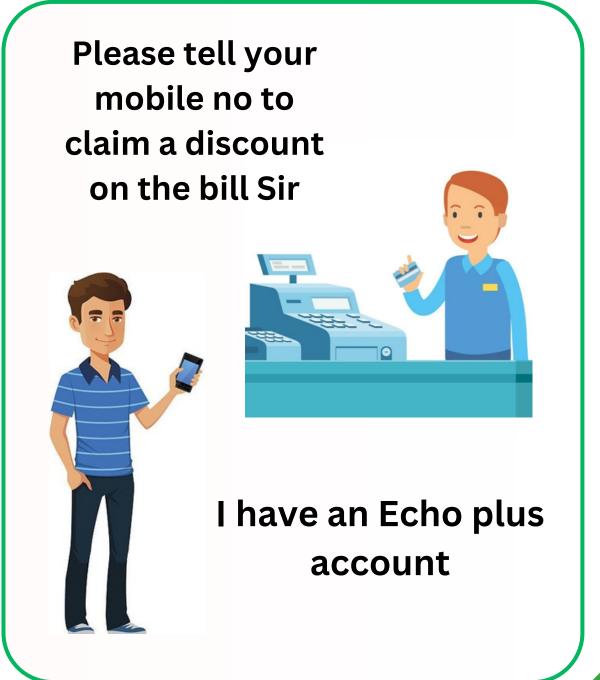




Summary

I will request a collect from Echo Plus







THANK YOU!



