Itadakimasu

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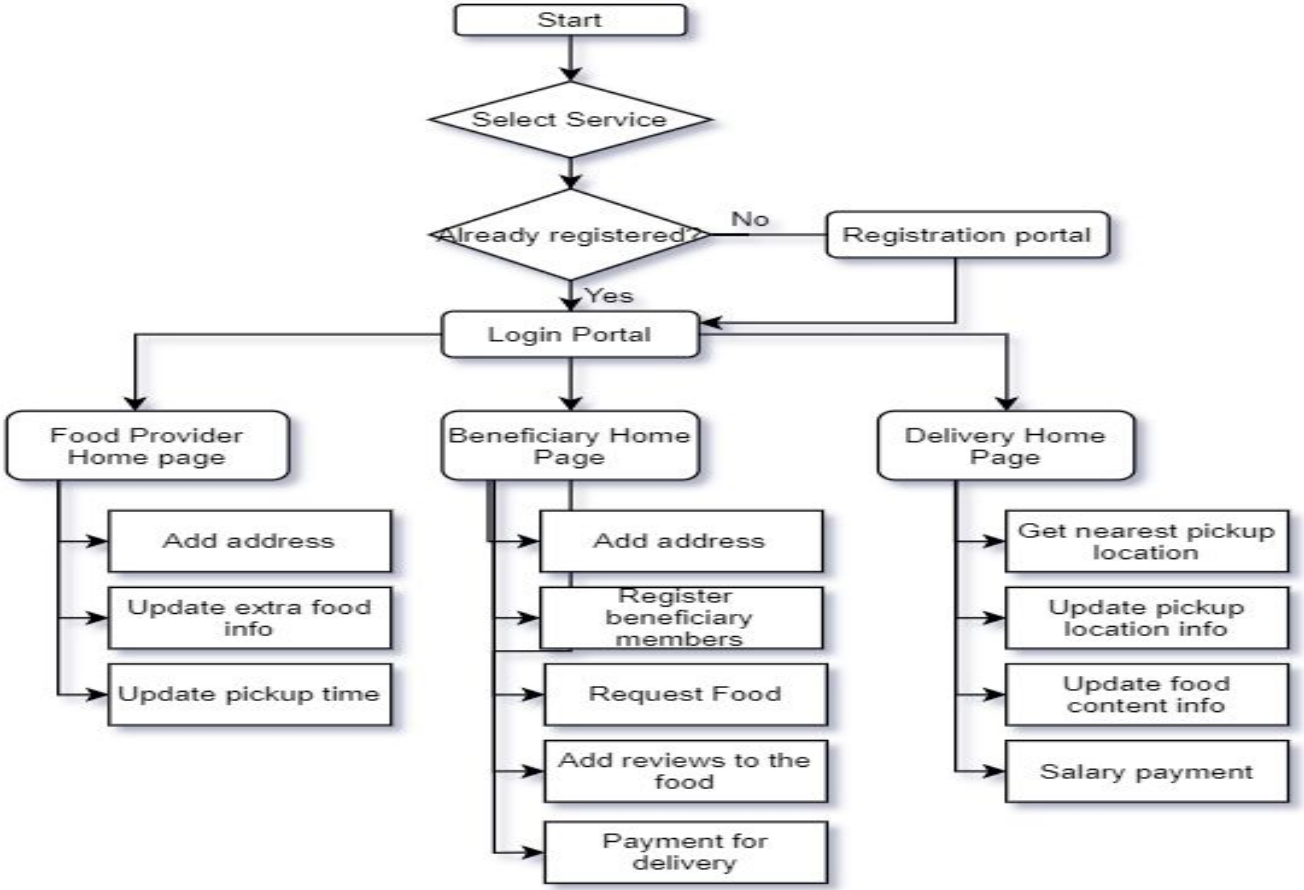
Introduction

- Our project aims to take food from the ones who have extra (otherwise would have gone to waste) and give it to the ones who are in need.
- **Itadakimasu** means '**Thanks for the food**' in japanese.
- It allows charitable groups to register to our app and request for some amount of food.
- The food providers get feedback about the food from every beneficiary of their food.

Motivation

- Roughly one third of the **food** produced in the world for human consumption every year — approximately 1.3 billion tonnes — gets lost or wasted while 795 million people in the world do not have enough **food**.
- Our aim is to preventing food from going to waste and fill as many stomachs as possible.


Start
Select Service
Already registered?
No
Registration portal
Yes
Login Portal
Food Provider Home page
Beneficiary Home Page
Delivery Home Page
Add address
Update extra food info
Update pickup time
Add address
Register beneficiary members
Request Food
Add reviews to the food
Payment for delivery
Get nearest pickup location
Update pickup location info
Update food content info
Salary payment

Module - 1

- Registration and login.
- Login with Social auth accounts (Eg: Google).

- Flutter UI
- Flutter Firebase Notification System.

Module - 2

- Beneficiary:
  - Register beneficiary members.
  - Manage their account details.

- Delivery Charges (Payments through Paypal).

Module - 3

- Food provide portal:
  - Add Address.
  - Edit profile.
  - Update food content.
  - Update pickup time.

Module - 4

- Delivery service :
  - Edit profile page.
  - Update delivery status.
  - Google maps api for routes.

Module - 5

- Implement best path finding algorithm to find the best optimized path for food delivery.

- Delivery service
  - Food provider validation on first delivery.

Module - 6

- Beneficiary :
  - Request food.
  - Give feedback.
  - Give reviews to food providers about the food.
  - Check history.

Module - 7

- Food provider :
  - Check their stats(Reviews).
  - Credit System(using machine learning algorithms from the feedback from the users and previous donation data)

Module - 8

- Implementing testing for all modules with CI like CircleCI.
- Deployment with the heroku servers.

Integration

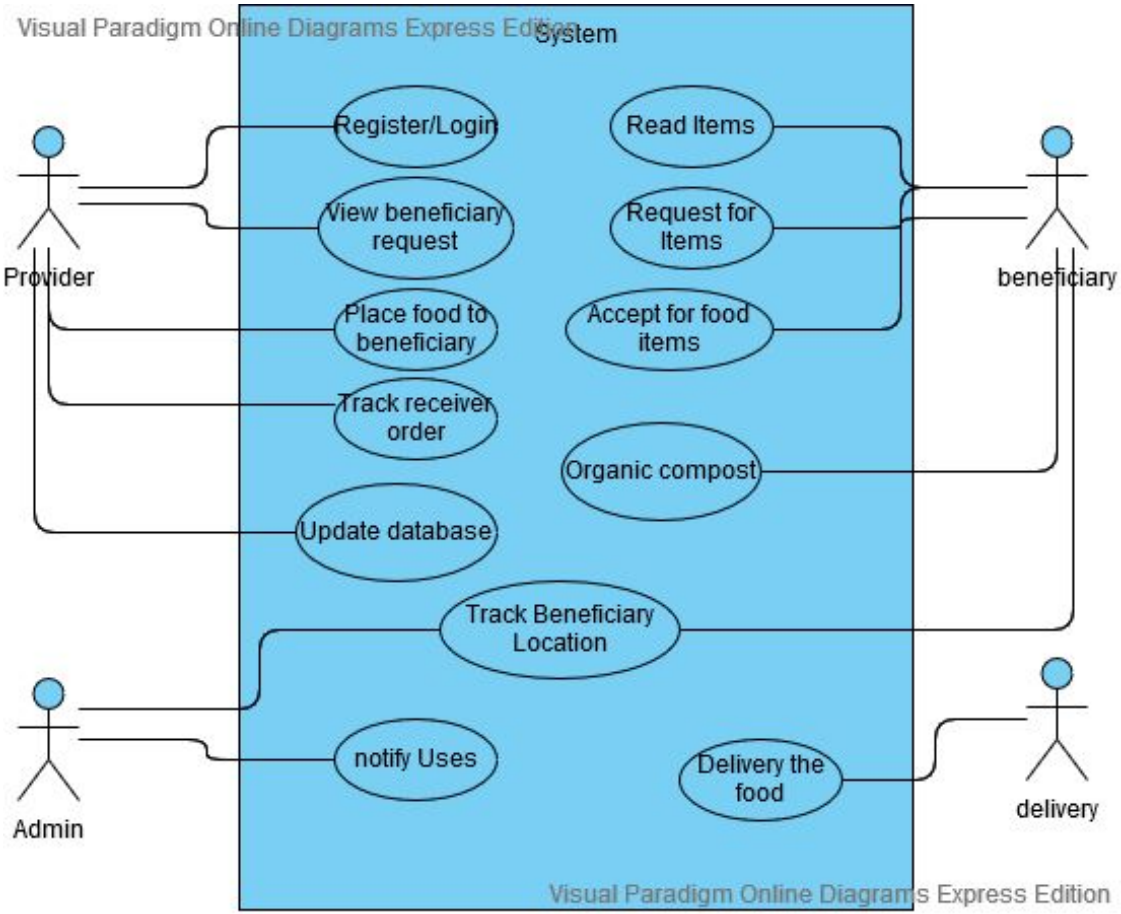
- Implementing module 1 - 4 till the end of february.
- Implement module 5 - 8 till the end of april.
- Github for easy integration.
- Circle CL for testing while integration.

Deployment

- Using github to store our code base and easy to integrate.
- We plan to deploy our backend to any cloud hosting services which can be easily integrated with github.

Tech Stack

- Backend: NodeJS
- DataBase: FireStore (Firebase database)
- User Interface: Flutter App, Flutter Web
- Testing: CircleCI
- Hosting: GCP/ AWS/ DigitalOcean
- ML : Keras


Visual Paradigm Online Diagrams Express Edition
System
Register/Login
Read Items
View beneficiary request
Request for Items
Place food to beneficiary
Accept for food items
Track receiver order
Organic compost
Update database
Track Beneficiary Location
notify Uses
Delivery the food
Provider
beneficiary
Admin
delivery
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