Problem Statement:

To create a web-based food delivery application in order to provide healthy food suggestions based on user's preference and personal information.

The project would be a webpage application that deals with stakeholders such as admin, customers and restaurants where the end user can sign up and create his personalized profile for receiving customized food suggestions. The application displays the user's progress generated based on his preferences and orders.

Git: https://github.com/sanga03/Spartans-FSD-IBM-SmartFood

Firebase:

AWS:

NUTRITIUM

System Requirements Specification Document V 1.0

Table of Contents

SCOPE :

The document describes the scope of requirements to create a web-based food delivery application in order to provide healthy food suggestions based on user's preference and personal information.

The project would be a webpage application that deals with stakeholders such as admin, customers and restaurants where the end user can sign up and create his personalized profile for receiving customized food suggestions. The application displays the progress through dynamic graphs generated based on the periodic progress of a user.

ASSUMPTIONS:

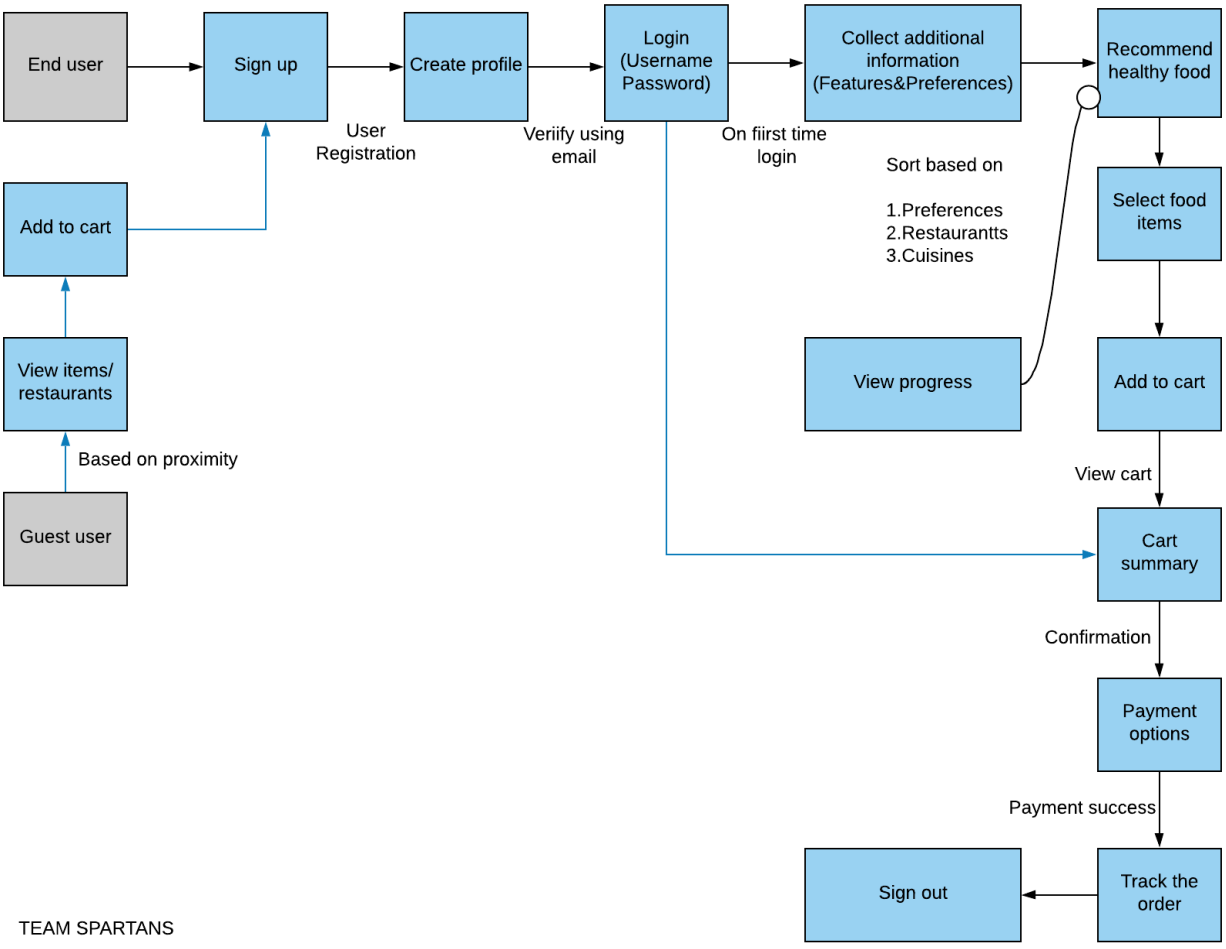
It is assumed that the user visits the website to not only order foods but also receive healthy food suggestions based on his/her preferences such as cuisines, current weight, target weight and personal information such as gender, height, weight, BMI, BMR, etc.,

SUMMARY :

The user signs up using basic information. Once he logins, he/she can register in the portal, provide additional information, create a profile using his/her personal information such as name, age, gender, height, weight along with his/her preferences to gain or lose weight. The suggestions of food to the user will be based on the calories, price and other criteria.

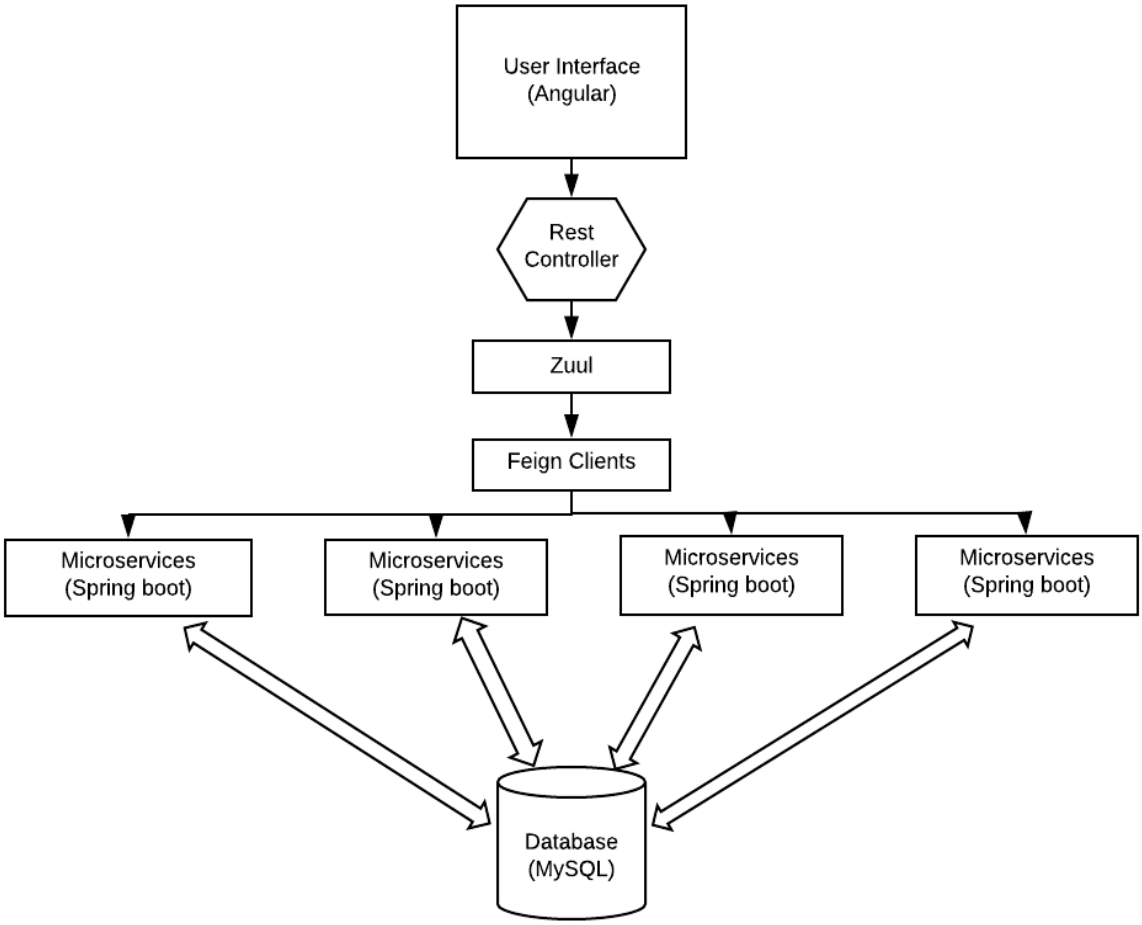
SYSTEM ANALYSIS :

PROPOSED SYSTEM :



TEAM SPARTANS

SYSTEM ARCHITECTURE



COMMON REQUIREMENTS

User Requirements:

- The user must enter basic information to sign up for the first time.
- The user must enter valid email id and password to login / order foods using the web application.
- The user must enter his physical information and personal preferences in order to create a separate account for opting the diet plan and suggestion of foods based on various criteria such as calories, price, etc.,

Restaurant Requirements:

- The restaurant must list the food items along with their prices and calorie intake.

Error and Exception Handling Requirements:

FUNCTIONAL REQUIREMENTS

Brief description:

Workflow:

User	**Flow**
User who opts to follow diet plan	The user signs up, logs in, the user has to enter his physical information and personal preferences. The BMR and BMI will be calculated accordingly. The foods will be displayed based on the rating of custom food items so that the user can achieve his target within the time limit set at the beginning of the plan.
Guest user	The user has to sign up and log in to order foods. The foods will be listed based on the rating of restaurants. The user can order foods according to his wish and add them to the cart

SYSTEM ENVIRONMENT

Eclipse IDE

Eclipse IDE (Integrated Development Environment) is composed of plug-ins and is designed to be extensible using additional plug-ins. Developed using Java, the Eclipse platform enables us to develop rich client applications.

Spring Boot

Spring Boot is an open source Java-based framework used to develop micro services providing Rapid Application Development (RAD). Stand-alone and production ready spring applications can be developed using Spring Boot's comprehensive infrastructure.

MySQL

MySQL, the freely available open source Relational Database Management System (RDBMS) uses Structured Query Language, the most popular language for adding, accessing and managing content in a database noted for its quick processing, proven reliability, ease and flexibility of use.

GitHub

GitHub is a web-based version-control and collaboration platform for software developers. Git is used to store the source code for a project and track the complete history of all changes to that code. It allows developers to collaborate on a project more effectively by providing tools for managing possibly conflicting changes from multiple developers.

Angular JS

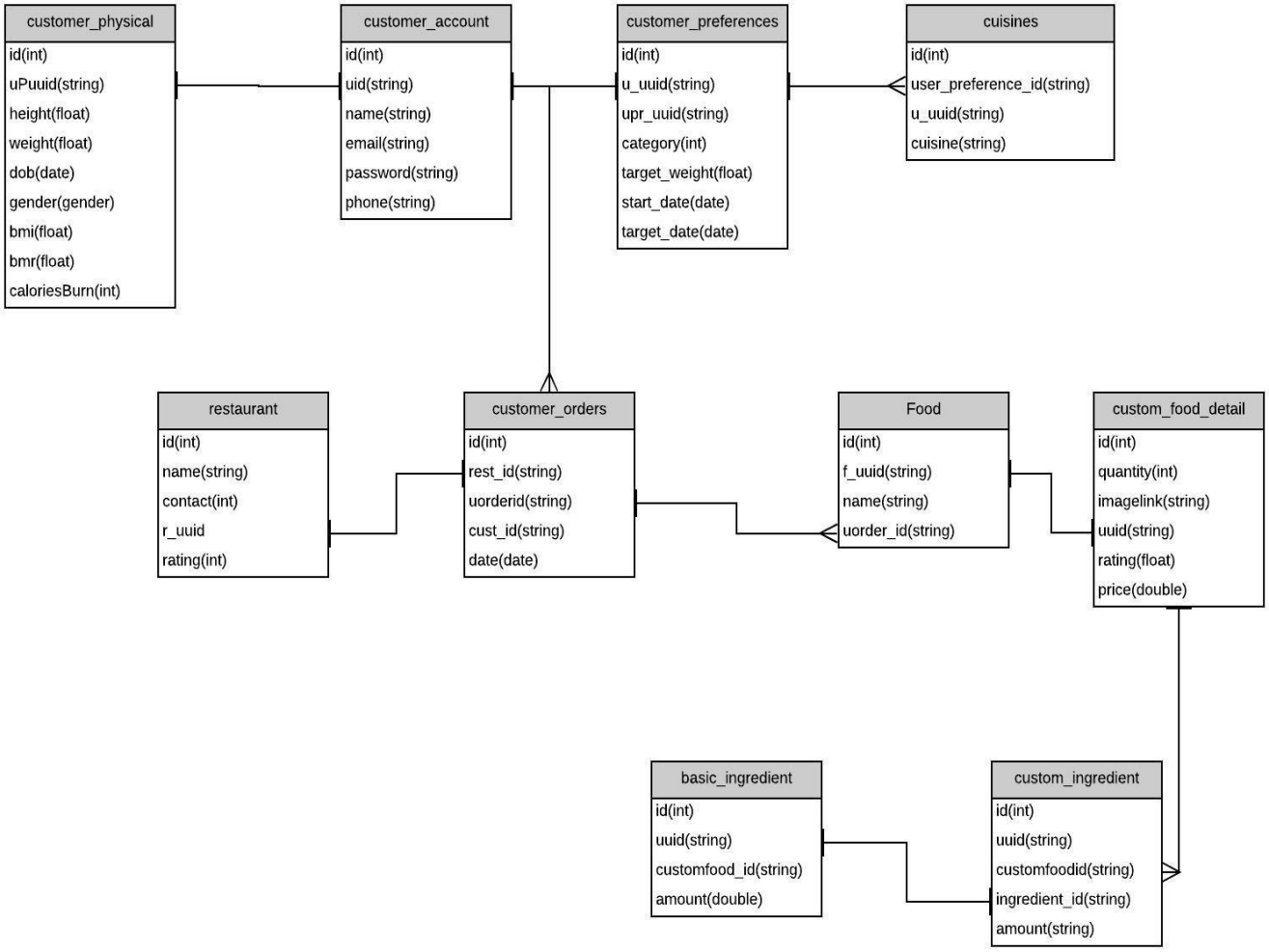
Angular JS is a structural framework for dynamic web applications that uses HTML as template language and extends HTML's syntax to express application components clearly. Its data binding and dependency injection eliminate much of the code. It happens within the browser, making it an ideal partner with any server technology.

Jenkins

Jenkins is an open source automation server, Jenkins provides hundreds of plugins to support building, deploying and automating any project. Jenkins supports the complete development lifecycle of software from building, testing, documenting the software, deploying and other stages of a software development lifecycle.

Amazon Web Services (AWS)

DATABASE SCHEMA :



SQL SCRIPT FOR DB CREATION :

Unit Test Cases:

Integration Test Cases:

NFR Test Cases:

PRODUCTS USED:

Scenario	Product	Description
UseCase Generation		
Development	**Eclipse**	The standard Java development is carried out in Eclipse IDE.
Database	**MySQL**	The team should use a centralized MySQL for db requirements.
Repository	**GitHub**	The team members backup and share the code between them via GitHub repository.
Deployment	**Amazon Web Services**	The team should deploy their solutions for testing / deployment using AWS.

Resources and References