

# ***Gourmet Restaurant Management Systems***

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## Team Members

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## Overview

Our client Marthinus Ferreira is requesting the implementation of custom tailored restaurant software management system to run on a PC server (or on cloud computing service) for his restaurant *DW Eleven*.

The system runs a back-end service which manages all the essential databases, e.g., recipes for dishes, customers and customer orders, stocks of ingredients for the dishes, employees - part-time and full-time hired waiters/waitresses, managers, suppliers of stocks, etc. The front-end services feature interfaces for interacting with the management systems.

## Goals

Customers:

Customers can make orders and reservations to be picked up for take-away, dine-in, home delivery, etc. A unique feature of the gourmet restaurant is that orders may include special request to modify the content of the dish, e.g., no-salt, no-sugar, etc. The possible devices for interacting with the system include PCs (desktops), Laptops, tablets, mobile-phones, etc.

Restaurant Manager:

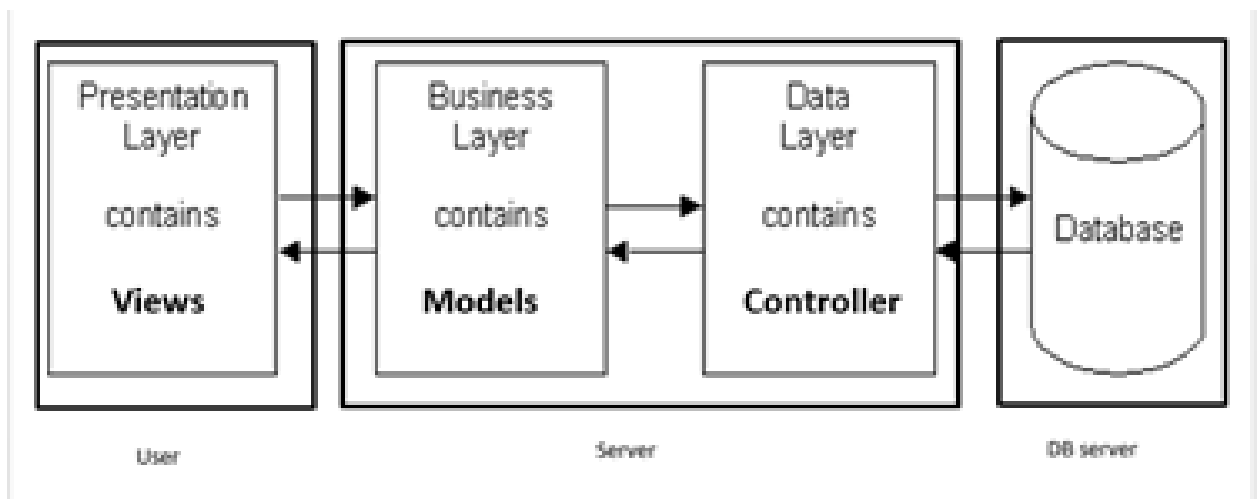
The manager interacts with the system to manage:

- 1) Stock Inventory
- 2) Recipe/Menu planning
- 3) Reservations
- 4) Dish/Food costs
- 5) Customer database
- 6) Track delivery

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- 7) Accounting/Financial Administration
  - 8) Waiters'/Waitresses' duties, off-days, leaves, etc.
  - 9) Generation of reports - Analytics
  - 10) Special events

## System Architecture

### Hardware Software architecture



The team will be using a three tier system architecture. All of the software that will be interacting with the system will be listed on the front-back end section.

### Front end services for the system

- Nodejs
- Reactjs
- Ionicjs
- Electronjs
- scss/css3
- HTML5

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## **Back end services for the system**

- Php
- Mysql
- mongoDB
- graphQL
- Apache Web Server

## **Supporting tools for the system**

- Google Maps API (for Maps and location)
- Facebook/twitter/Instagram APIs (for social media integration)