Service Design Document for Food2Go App
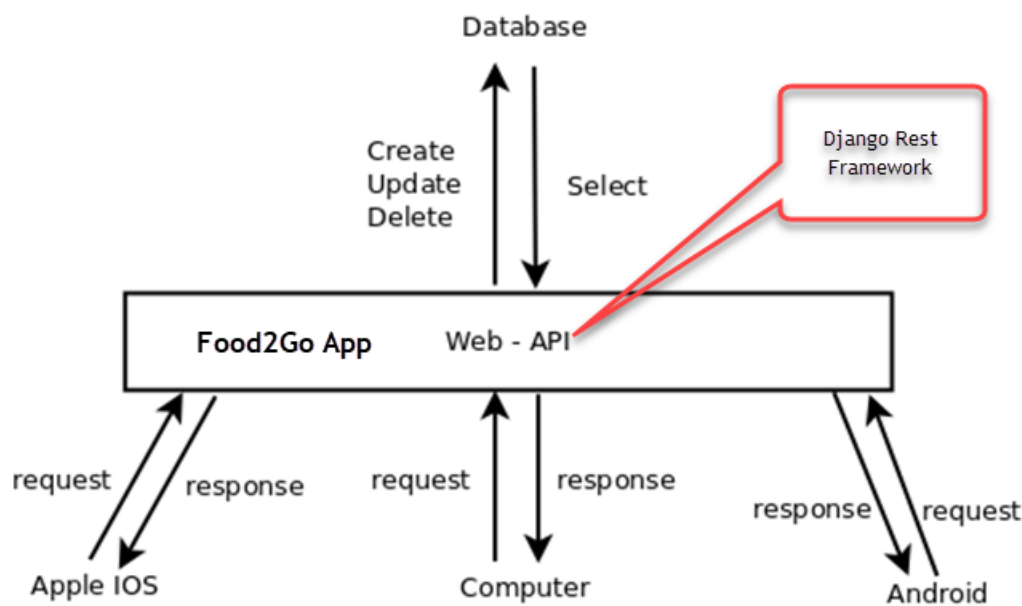
Approved on 11/02/2019

Overview

The Food2Go App is an online food ordering system that enables ease for the customers. It overcomes the disadvantages of the traditional queueing system. The proposed system is a medium to order online food hassle-free from restaurants for pickup and delivery service. The Food2Go App sets up a food menu online, and customers can easily place the order as per their wish. Also, with a food menu, customers can easily track the orders. This app also provides a feedback system in which a user can rate the food items. The payment can be made online or pay-on-delivery system. For more secured separate ordering accounts are maintained for each user by providing them a username and a password.

The Food2Go App will be developed as a web application. Mobile client/External system can communicate with the application using a published endpoints which are created using DRF (Django Rest Framework). Django REST framework is a powerful and flexible toolkit for building Web APIs.

The figure below shows the service layer architecture of the Food2Go Application.

Database and Application Software Utilities

Vendor	Product	Version	Comments
SQLite	SQLite3		Database Management System
Django	Django	2.0.8	Framework
Python	Python	3.7	Application Software

Table 1: Application Software Utilities

WEB API endpoints:

The following Web API endpoints have been published in the Food2Go app.

GetRestaurants:

http://127.0.0.1:7200/api/webapp/getrestaurants

For a given search criteria this will return all the restaurants.

GetRestaurantMenu:

http://127.0.0.1:7200/api/webapp/getrestaurantmenu

For a given restaurant this service will give the associated menu.

Checkout:

http://127.0.0.1:7200/api/webapp/checkout

After selecting the items for the order, this service will make the order to proceed for checkout.

OrderPlaced:

http://127.0.0.1:7200/api/webapp/orderplaced

For a given order, this service will place an order, and return the order status.

Status Code:

The status code mentioned in the below URL will be returned depending on the request.

https://www.django-rest-framework.org/api-guide/status-codes/