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FOOD SUPPLY(Web-Based App)

Initiated - 09.04.2019

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# Overview

Web Based app for Ordering food from restaurants in vicinity with online payment options and ratings.

**Need-**Nowadays a major Barrier for increasing customers in restaurants is reach and distance, Often customers are in confusion over various restaurants due to food items offered, quality and prices.

**Addressing needs-** This app will resolve this issue by bringing all menus of the restaurants in vicinity of the user in one place, with prices and user given ratings, thus giving the restaurants more reach and the customers for options .

**Prospective users-** We will target mainly corporate employees, College Students and faculties. As these people often do not have access to “tasty” and healthy food, Or are short on time to search for it.

**Issues/Challenges-** Some of the problems faced will be, Dynamically updating attributes of a particular food item, whether it’s still available or not, price changes , closing particular web-page when restaurant closes,Payment processing,Getting Delivery times according to different times.

# Goals/Milestones

1. We plan to cover the project or present a working release in 7-8 weeks.
2. **Week 1-** SRS documentation, user case diagrams, identifying stakeholders,Discussion of Features to be added.
3. **Week 2-** Basic layout, adding Pseudo-lists of food items of Pseudo-restaurants for simulation. Implementing a Cart and adding feature to add food items to it.
4. **Week 3 -** implementing Navigation for navigating between different restaurant pages. Add options and features for restaurants to manage their page, like food item addition/deletion/change price/item out of stock, Delivery time based on time.
5. **Week 4 -** Adding payment processing and address addition, Sending Orders placed to particular restaurants contact details like email.
6. **Week 5 -** Add Review Feature and Begin work on Front-end. Designing the Web-site and Web-pages.
7. **Week 6 -** Testing and improvements,Debugging.
8. **Week 7-** Scope for extension.
9. **Week 8 -** Deployment of release 1.

# Specifications/Requirements

## Functional Requirements

1. **Display page of particular Restaurant(user)**-
   1. Input=user-based(Mouse-Click)
   2. Output = True if successfully displayed else false
   3. Navigates to the particular Restaurant page.
2. **Sign-up/Sign in(user)-**
   1. input=email-address.
   2. Output= Session ID.
   3. Allows the user to sign-up or Log-in.
3. **Add Food item to cart(user)**-
   1. Input= Quantity via Keyboard
   2. Output=Price of the items.
   3. Takes a number as input (quantity ) and outputs the total price for it.
4. **Delete Food item from cart(user)**-
   1. Input= User’s Mouse click
   2. Output=True if successfully deleted else false.
   3. Deleted the clicked Food item.
5. **Check out**-
   1. input= User’s Mouse click
   2. output=Returns total Output price.
   3. Function/class to evaluate final amount to be paid and send the order.
6. **Display page of particular Restaurant(Restaurant manager)**-
   1. Input=user-based(Mouse-Click)
   2. Output = True if successfully displayed else false
   3. Navigates to the particular Restaurant page.
7. **Add New Food item(Restaurant)**-
   1. Input= New name and Price of Dish.
   2. Output=True of successfully added else false.
   3. Allows restaurant to add a new dish.
8. **Delete Food item(Restaurant)**-
   1. Input= User’s Mouse click
   2. Output=True if successfully deleted else false.
   3. Allows restaurant to delete existing dish.
9. **Change Price(Restaurant)**-
   1. Input = integer as new price per item.
   2. Output- True if successfully changed else false.
   3. Allows Restaurant to change price of existing dish.
10. **Change Status(Restaurant)**-
    1. input= New status
    2. Output= New status of item
    3. Allows restaurant to change the current status of food items,like out of stock.
11. **Change Restaurant status.**
    1. Input - user click.
    2. Output= True if status changed successfully else False.
    3. Allows restaurant to change their status to closed or open.

## Non-Functional Requirements

1. Time Requirement- Backend to be completed by ~5 weeks, Frontend ~6 weeks and Deployment of release 1 by end of semester(week-7 or week 8).
2. Manpower=Contributors Limited to 2 people.
3. Resources at Disposal- Software Engineering Laboratory, Teaching Assistants, Internet.

# Hardware/Software

## Software Environments

1. Java lang. along with libraries in c,python,c++.
2. HTML & CSS for Front-end development/Web-site.
3. Sublime Text editor & Javac Compiler.
4. Github for maintaining project.

## Hardware Requirement

1. Server(for final release) to keep the website running all times.
2. Laptops/PCs with Networking.

# Publicising

1. Dynamic update of data & availability in real time is one of the special features of our product.
2. Giving coupons who order occasionally from our website.
3. Partnering with restaurants to advertise and online partners to publicise our web-site.

# Cost

1. In terms of Time=2-3 Months.
2. In terms of number of developers=2 developers.
3. In Terms of Money=Cost of advertising and partnering with restaurants.

# Use-Case Diagram

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