Web App Development Project Proposal

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Description: For our web development project, we plan to create an on-demand food delivery service based on Boston College's Campus that operates similarly to Uber's business model. The website will serve as an intermediary to connect hungry students with extra funds to other students with extra time on their hands. Students who are too busy to grab lunch or dinner don't have to worry anymore about not being able to eat until after the dining halls reopen. The process is very simple. Students who are registered on the website can check the daily menus of each dining hall on campus and select a 'tray' of food from a particular hall that they would like. A student deliverer who is located near the requested dining hall is then notified of the order and can decide whether or not they want to accept the task. The student customer will fund all orders with an Eagle ID# that will be saved to their profile. A premium delivery service will be added to the total price of the 'tray' and this will be used to pay student deliverers and subsidize website maintenance.

Front end/Back end: The front end will display a map of Boston College's campus by incorporating Google Map's API. Students must first select their delivery location and then their desired dining hall. Then the user can select items from the dining hall's daily menu and add them to their tray which will display the estimated total. Once the student is done they can submit their order which will be sent to an order database in PHPmyadmin. The order database is then fed to both the admin and employee interface with the former having limited access to information (for security purposes). Employees then pick up orders and admins can facilitate the process. Once the order has been completed, the employee will mark the order as completed.

Admin Interface: The admin interface will oversee all transactions and has access to all user accounts. The admins can edit orders or delete orders that were placed by accident. Additionally, the admin will have the ability to email any customer/employee and can mediate any disputes or inconveniences.

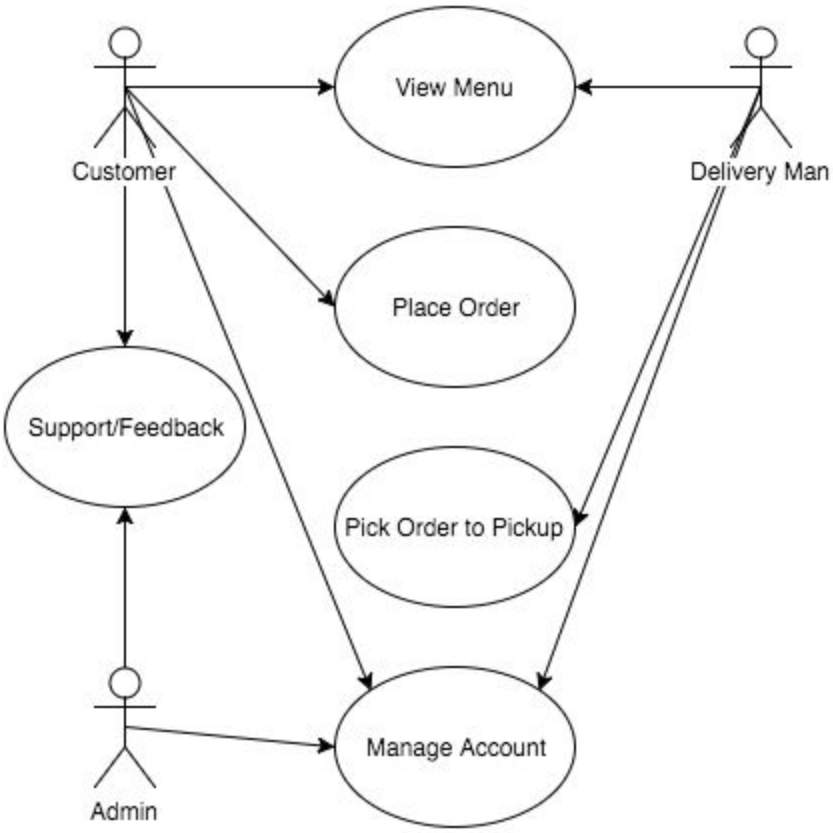
API: Google Maps API to display map of Boston College campus and estimate delivery times.

Javascript/JQuery/PHP/HTML/CSS: Javascript/JQuery for on client functions and services like managing a user's order and calculating total price. Additionally, for local validation to minimize the number of errors that can occur when submitting the form. PHP for server function and services such as contacting the database and relaying information, sending emails, server validation to ensure that no bad queries are submitted, etc. HTML to create the form and overall

structure of the website and its separate interfaces. CSS to make the website aesthetically pleasing and user friendly. We will most likely incorporate CSS design templates such as Bootstrap or parallax.

Project will be hosted on cscilab. Code and any edits will be stored on GITHUB. Everyone will code. Commits will be made by the respective authors.

Description of Interfaces: Our service will operate with three interfaces. One for the employee, customer and the admin page. The customer page will have a login or sign up page which will then direct you to a sign-up page similar to that of the club assignment or the order form page. The order page will consist of the current menu from all dining halls for the customer to select and where they want it delivered on campus. The employee page, similar to the customer page will also have a login or sign-up page. Their page however, will display all of the orders placed by the customers and the option to accept the order in which then will be taken off the website and and assigned to the employee. Once the food is successfully delivered, they click a form from the employee page which then updates the order on the admin page. The admin page will have access to all of the accounts, and the status of the order. Admin page can send mail to customers and employees and update or void orders.


View Menu
Customer
Delivery Man
Place Order
Support/Feedback
Pick Order to Pickup
Manage Account
Admin