***App-etizers at SC* Technical Specifications**

**Version 1.0**

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**CSCI 201: Principles of Software Development**

* **Login and Register Section (8 hours)**

I. The web page will have login and register links are on the home page if the

user is not logged in. If user clicks the login link, the web page will be directed to the login page, where user can type their username and password into the input text field. Error messages will be displayed on the login page if the user types the wrong username or password. If user clicks the register link, the web page will be directed to the register page, where the user can register an account. Error messages will be displayed on the register page if the username already exists. The username and password will be validated through databases we created called **userinfo.** After successfully registering, the user will automatically log in and be directed to the home page.

There will be a sign-out link are on the home page if the user is logged in. If the user clicks the sign-out link, the web page will display the login and register links again without reloading the page.

* **Database (5 hours)**
* There will be three tables in the database: User Info, Restaurant Information, and Dish Information
* A table called “Dishes” listing all available meals in all restaurants, with associated prices. There will be two columns in the Dishes table: Restaurant Name and Prices. The User Info table includes two columns: Username and Password. The login and register function will reference this table.
* The Restaurant Information table contains several columns: Names, Locations, Contact Information, Rates, and Genres.
* The Dishes Information table contains several columns: Names, Prices, Restaurant Names, and Reviews.
* **Search Page (8 hours)**
* Search bar for users to type their interests and choose food-related keywords, which are displayed as buttons. It will search for results according to the user’s input and button values.
* On keyword submit, display matching foods and restaurants. If there is no result found, the page will display “No Result Found!”
* Two default keyword selections: Ingredients and Restaurants
* Functionality to add/clear keywords and redirect to proper pages. User can add more keywords from keyword lists related to location, price, and rate. Additionally, there will be a button called “Add Keywords,” and on the keyword submit, the result list will be displayed for users to choose.
* There will be a profile icon if the user is logged in. Upon being clicked, it will redirect to the user information page. This functionality is available on every web page within the program.
* **Restaurant Page (8 hours)**
* The page should display a list of restaurants with thename, rating of the restaurant, picture of the restaurant, location of the restaurant, and a dollar sign range to symbolize the average prices.
* Bookmark to collect the restaurant. There will be a “Favorite” button that allows the user to add this restaurant to his or her “Favorite List.” If this restaurant already exists in the user’s Favorite List, it will display the message “This restaurant is already in your favorite list!”
* Upon clicking the restaurant’s image, the program will redirect the user to the detail page. It will not direct to the detail page if the user is not logged in, and the web page will prompt the user to log in first.
* There will be a profile icon if the user is logged in. Upon being clicked, it will redirect to the user information page. This functionality is available on every web page within the program.
* **Detail Page (8 hours)**
* This page will display more information about the restaurant, such as reviews, introductions, more pictures inside and outside the restaurant, genres, contact information, and locations, which are displayed in the Google Map section.
* There will be a “Remove” button that allows a user to remove restaurants from his or her favorite lists.
* There will be a profile icon if the user is logged in. Upon being clicked, it will redirect to the user information page. This functionality is available on every web page within the program.
* **Dish Page (8 hours)**
* This page will display a list of available meals, according to user’s preference. There will be a picture and community rating for the dish, as well as the dish’s price, location, list of reviews.
* There will be an editing button for the user to provide feedback on incomplete or incorrect information.
* Upon clicking the image of the dish, it will direct the user to the detail page of relevant restaurants. It will not direct to the detail page if the user is not logged in, and the web page will prompt the user to log in first.
* There will be a profile icon if the user is logged in. Upon being clicked, it will redirect to the user information page. This functionality is available on every web page within the program.
* **Video Section (4 hours)**
* The video section is on the home page. It will be available at the top of the home page, and, when selected, randomly plays a food-related video. The videos displayed can also be restaurant commercials in order to generate revenue for the site’s continued operation.
* **Map Section (4 hours)**
* There will be a Google Maps UI which will display available restaurants according to the user’s preferences. This section will be in the restaurant page, dish page, and detail page to display the location of restaurants.
* Icons for each restaurant are visible on the map.
* On click, each icon will redirect to its specific restaurant page.
* **Comment and Review section (7 hours)**
* This section will be displayed in the detail page, where a user can submit their own opinions about a restaurant or dish.
* There will be a “Write your own review” button. Upon clicking the button, a text input field will pop up that allows users to type their own reviews. Below the input field is a submit button which will upload the input to the database if clicked.
* The review button will prompt the user to “Please log in first” if the user is not logged in.
* There will be a Star rating drop-down list for the user to choose, once he or she has clicked the button.
* There will be brief user-defined tags for the dish (e.g. “spicy” or “vegan”).
* **User information page (8 hours)**
* This page will initially display a unique greeting with the username of the user.
* It will also display information about dishes and restaurants that are in the Favorite List of this user.
* The information includes pictures, prices, locations, reviews, and contact information.
* It will also show a history of comments that this user has made.
* Dishes or restaurants are sorted by the timestamp at which they were inserted into the list.
* There will be a button under each restaurant and dish in the user’s Favorite List to remove each option from the list.
* Restaurants and dishes are removed from Favorite List, and the page is updated without reloading.
* Clicking on the restaurant’s or dish’s image redirects to the details page for the restaurant.