**Software Implementation and Testing Document**

**For**

**Group <31>**

Version 1.0

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# 1. Programming Languages

Backend:

Python. We chose Python because it is versatile and easy to use. Another reason is that it has frameworks, like Flask, which we are using in our project.

Frontend:

HTML and CSS. We chose these languages because they are essential to build our website. They are also easy to work with.

# 2. Platforms, APIs, Databases, and other technologies used

Backend:

* **MySQL**:
  + Used to create and manage the relational database.
  + Contains tables such as restaurants, categories, restaurantCategories, and account.
  + Stores user account information, restaurant details, and category relationships for efficient data retrieval.
* **Yelp API**:
  + Used to fetch restaurant data, including names, locations, ratings, and categories.
  + Integrated into the backend to populate the database with relevant restaurant information.
  + API key security was ensured through environment variables.

Frontend:

* **HTML:**
  + Used to design a website to display the restaurants the user is trying to find.
  + Currently contains a login, sign up, and navigation page for user’s ability to search for restaurants near their locations they may enjoy.
* **CSS:**
  + Used to help create a display of the page that the user may enjoy looking at.
  + Contains a style for different aspects of the site so it can be easy on the eyes. This allows ease in designing the pages.