**Software Implementation and Testing Document**

**For**

**Group 27**

Version 1.0

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# Programming Languages (5 points)

The programming languages used include Python, HTML, CSS, and SQL. Python is the primary language used to create the database, the tables therein, the external MySQL users relevant to it, as well as the main web application, all its business logic, and the routing between the different front-end pages. HTML was used to create the user experience, while CSS was used to style and configure the appearance of each HTML page. Finally, SQL was used to run the queries and commands required to create the database and its tables, as well as insert any new user accounts into the user table. We chose Python for its versatility, ease of use, and well-suitedness towards the development of web applications, not to mention it is a common language for all of the team members. HTML and CSS were used to sculpt the user experience, considering the scope of the application should not require much outside of the capabilities of these languages other than some dynamic aspects moving forward. Finally, SQL was used to make the database, as it is not only a common language among the team members, but also simply one of the most commonplace languages used for making queries.

# Platforms, APIs, Databases, and other technologies used (5 points)

The database component of the project uses a MySQL server. The primary Python module of the project, involving routing between front-end pages, creating the database, running queries on the database, and taking information from and presenting information to users, was created with Flask 2.2.2. The primary platform used to store the project source code is GitHub.