Architectural Design

System Architecture Design

The architecture of the whole system is depicted in Figure 1 & 2.
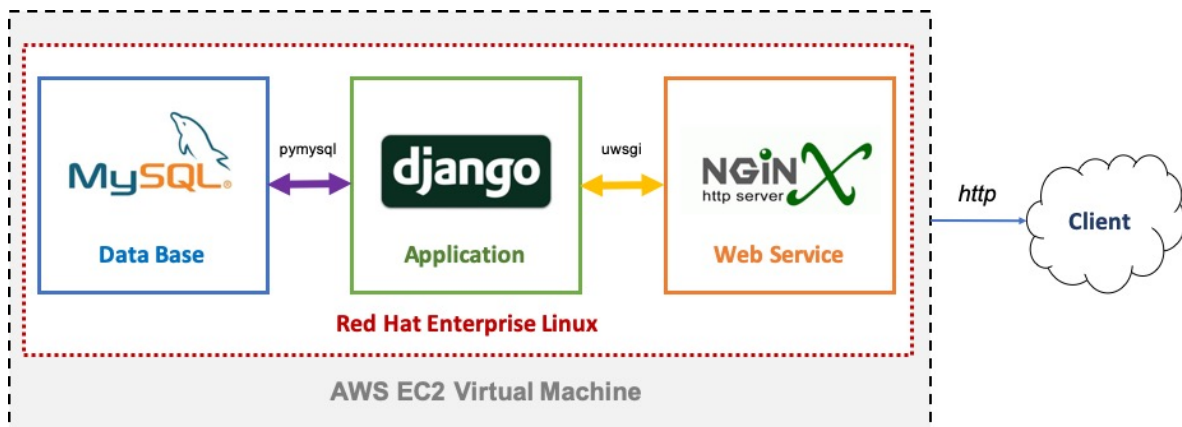

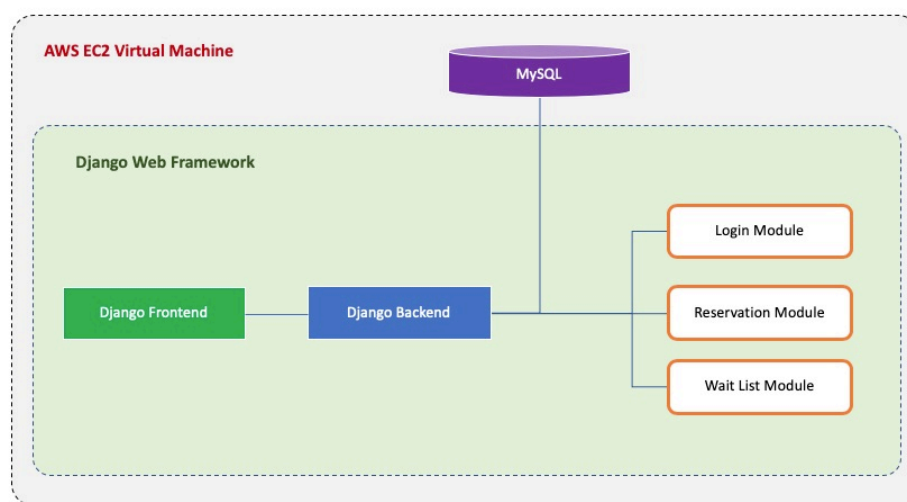Figure 1: An overview representation of the system architecture.

Figure 2: An overview representation of the interaction between the major modules of the system.

Below is a flow chart that depicts how the system process user requests.
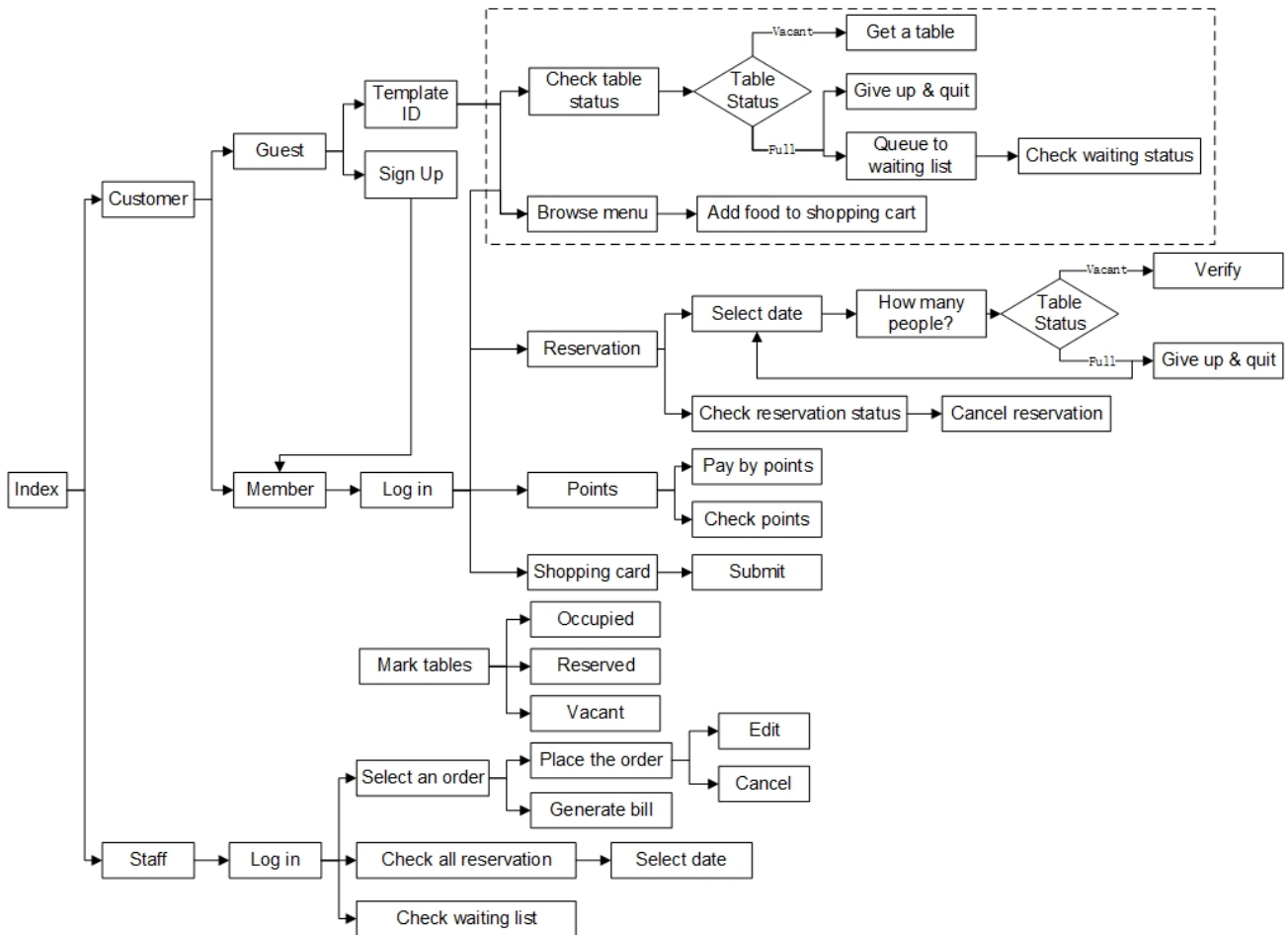
Figure 3: An overview flow chart of the request processing in the system.

Database

The system leverages MySQL database to store user information and application data. The database schema is shown in Figure 4.
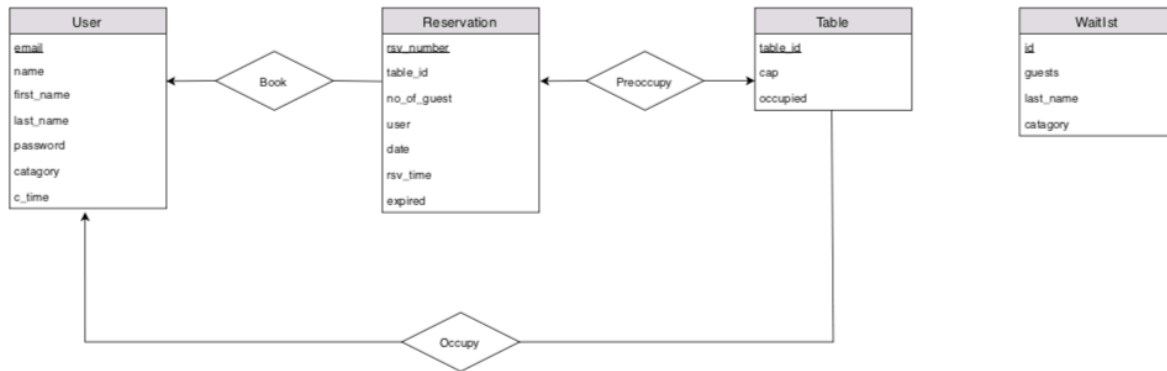
E-R Diagram for Database

Figure 4: An overview representation of the system database E-R model.

Front End Module

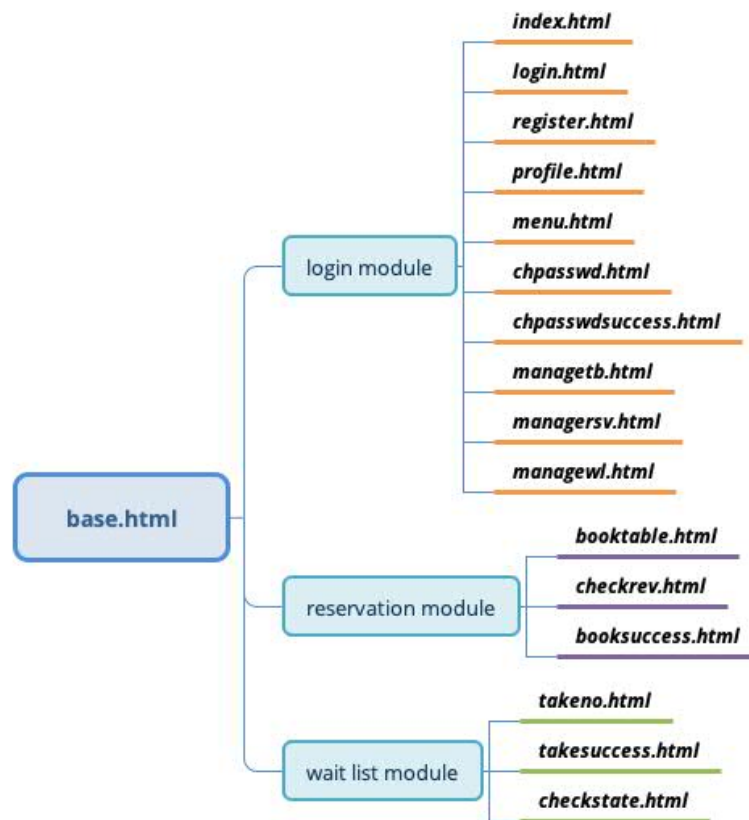The architectural view of the web app front end module is depicted in Figure 5 below.

Figure 5: An overview representation of the interactions within the web app front end module.

Login Module

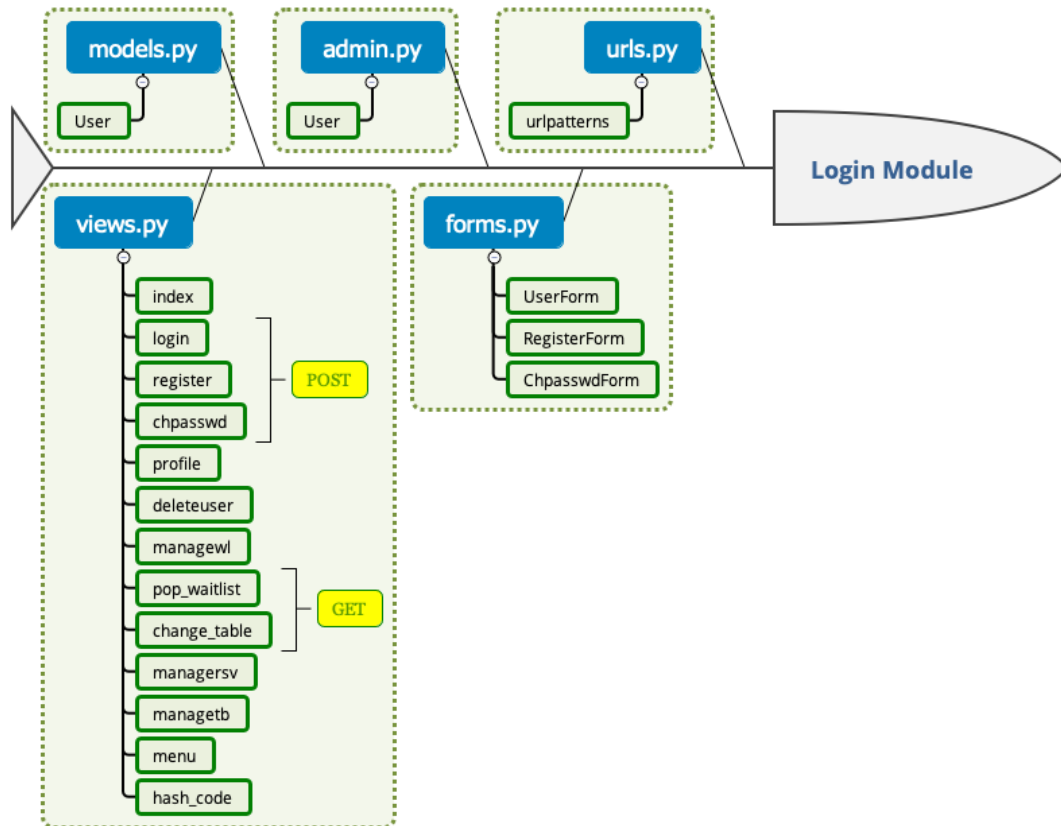The architectural view of the login module is depicted in Figure 6 below.

Figure 6: An overview representation of the interactions within the login module.

Reservation Module

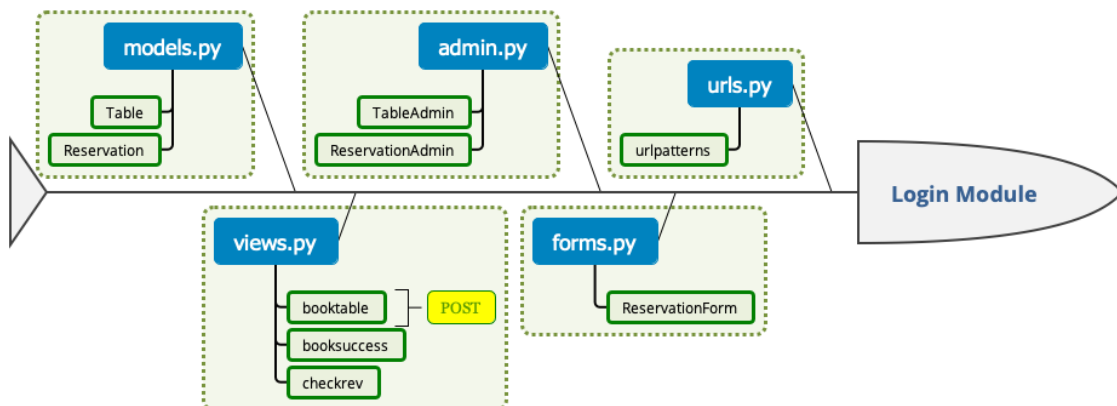The architectural view of the reservation module is depicted in Figure 7 below.

Figure 7: An overview representation of the interactions within the reservation module.

5

Wait List Module

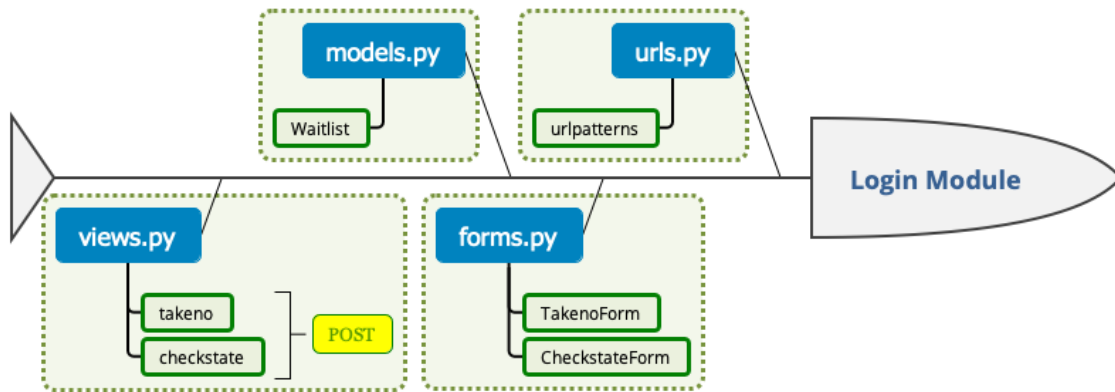The architectural view of the wait list module is depicted in Figure 8 below.

Figure 8: An overview representation of the interactions within the wait list module.