Addis Ababa Institute of Technology
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Restaurant Reservation System

Software Requirements Specification

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Overview

This system is designed in order to make the overall interaction customers have with the restaurant much easier. Instead of going to the restaurant and manually reserving a seat, users can do it online. The system is also designed to give restaurant administrators special privileges which allow them to change restaurant settings described in the functional requirements.

Functional Requirements

1.1 NAME FR-01: Sign Up and Log in

Table 1: FR-01 Sign Up and Log in

INTRODUCTION	The system shall provide a platform by which customers create accounts in order to book their place and reserve seats in the restaurant. Administrators shall also be able to sign-up after submitting the correct admin code.
INPUT	None
DESCRIPTION	Users can reserve tables after a successful sign-up and log-in process. Administrators shall be provided admin privileges after a successful sign-up process.
OUTPUT	Successful registration of the new members. Update of the database record.

1.2 NAME FR-02: Reserve a table

Table 2: FR-02 Reserve a table

INTRODUCTION	The system shall allow users to reserve tables for 2 – 6 guests. Administrators are also allowed to reserve seats for special occasions. The system shall also allow users to see their reservation history.

INPUT	None
DESCRIPTION	Users can reserve a table for up to 6. Note that there is no guarantee for the availability of tables as they might already be reserved by someone else. Users shall be able to pick a date, and time of their preference. Note that they can only reserve seats on working days/working hours.
OUTPUT	Successful reservation of a seat.
ERROR HANDLING	Display the cause of the Error in familiar terms.

1.3 NAME FR-03: Modify Restaurant Tables

Table 3: FR-03 Modify Restaurant Tables

INTRODUCTION	The system shall allow the administrators to edit details about the tables in the restaurant, such as adding a table, deleting a table and updating the number of people allowed on a single table.
INPUT	None
DESCRIPTION	The system shall provide a means for administrators to change the conditions of the restaurant. These changes are reflected in the website, and they also change the ways users interact with it.
OUTPUT	Successful update of the database record.

1.3 NAME FR-04: Modify Restaurant Working Hours and Days

Table 3: FR-04 Modify Restaurant Working Hours and Days

INTRODUCTION	The system shall allow the administrators to edit details about the working settings of the restaurant, such as editing the working hours, working days, etc.
INPUT	None
DESCRIPTION	The system shall provide a means for administrators to change the

	conditions of the restaurant. These changes are reflected in the website, and they also change the ways users interact with it.
OUTPUT	Successful update of the database record.

1.4. NAME FR-05: View Users and Reservations
Table 4: FR-05 View Users and Reservations

INTRODUCTION	The system shall allow the administrators to view records regarding registered users, reservations, etc.
INPUT	None
DESCRIPTION	The system shall provide such essential information for administrators. They can filter information based on their needs.
OUTPUT	Successful viewing of the aforementioned information.

Non-Functional Requirements

2.1 Maintainability

- The database should be consistently updated by the administrators.
- The software system should be regularly maintained.

2.2 Reliability

- The database should be verified and consistently checked for providing factual information by system administrators.
- The system should be able to update its database instantaneously as any change occurs.
- The system shall only allow users to reserve tables after a sign-up or log-in process.
- The system shall not allow tables already reserved by a user to be reserved by some other user.
- The system shall only allow up to 3 tables to be reserved by a single user in a given day.

2.3 Availability

- The system's server should be available 24/7, 365 days per year after deployment.

2.4 Security

- The system shall only allow authorized administrators to exercise admin privileges.

- Sensitive user information shall be encrypted and invisible to the database administrators.

2.5 Portability

- The system can be accessed from anywhere, at any time and on any device, as long as there is an adequate internet connection.