# Department of Computing

**SE312: Software Construction**

**Class: BESE – 5 AB**

# Lab 3: Restaurant Reservation System

**Date: March 1st , 2017**

**Time: Wednesday (10:00 – 13:00), Wednesday (14:00 – 17:00)**

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**GITHUB : https://github.com/hamzajaved70/Software-Construction**

**Introduction:**

The objective of this lab was to create a Restaurant Reservation System. The user should be able to reserve a table in the restaurant by entering the time required for the meal and subsequently entering the delicacies he or she desired to eat that particular evening.

It is of note that certain limitations were imposed on us for this lab. This includes a restriction on the number of people that can be accommodated by a particular table in the restaurant (An extra table can only service a maximum of 12 individuals).

In this lab we also created a database for our application which stores the reservations and also authenticates the users.

**Approach:**

In order to tackle this lab, one first needs to segment the task into particular sections. As far as this lab is concerned, these sections included: restaurant, table, booking, order and the appropriately but perhaps misleadingly named lab3, which serves as the main class for this lab.

**Design:**

The primary class is the Restaurant Class.

In this class, the four types of tables are defined. The small tables that have a capacity of 2 persons. The medium tables that have a capacity of 4 persons. The large tables that have a capacity of 6 persons. The extra tables that have a capacity of 12 persons.

The next class is the Table Class.

This encapsulates the functionality of the Tables i.e the number of Seats and the Table ids.

The next class is the Booking Class.

This encapsulates the characteristics of the Booking i.e the name and the Booking ids.

The final class is the Order Class.

This consists of the main menu and interface created for the whole reservation system.

**How to Run:**

Import the Project into your IDE.

Click on the main Class.

Run the Project.

The menu will appear on your screen.

Select the options.

**Analysis:**

Basic implemention only.

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