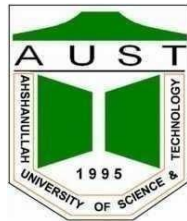


***Ahsanullah University of Science & Technology***  
Department of Computer Science & Engineering

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# Restaurant Management System

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CSE 3104: [Project Report](#)

Submitted By:

ID  
190204093  
190204098  
190204101  
190204105

NAME  
Md Fardin Jaman Aranyak  
Md. Johurul Alam  
Shah Md. Safi Sadman  
Md. Symum Hossain

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**1. Motivation of the project:** To manage restaurant where both customer and owner get benefits.

**2. Project Goal:** The goal of this project is to manage a restaurant properly. Now a days keeping all the information without any technology is a hassle for restaurant owners. By using this system, they can keep proper track of their customers and transactions.

**3. Project Cost Calculation:** Time required to complete this project will be 11 weeks. Considering 4 peoples working in this project for 11 weeks, one day each week. Salary of the software developer team will be 50,000 BDT(approx.) monthly. Payment for the team for each working day will be = 16,500 BDT. Utilities and accessories cost would be around 30,500 BDT. So, the total payment will be 47,000 BDT for selling the software, we will consider starting the price from

- 10,000 BDT/month
- 102,500 BDT/year

**4. Potential Customers/Product Marketing:** Owners of restaurants.

## **5. Requirement Analysis**

### **Features of Software:**

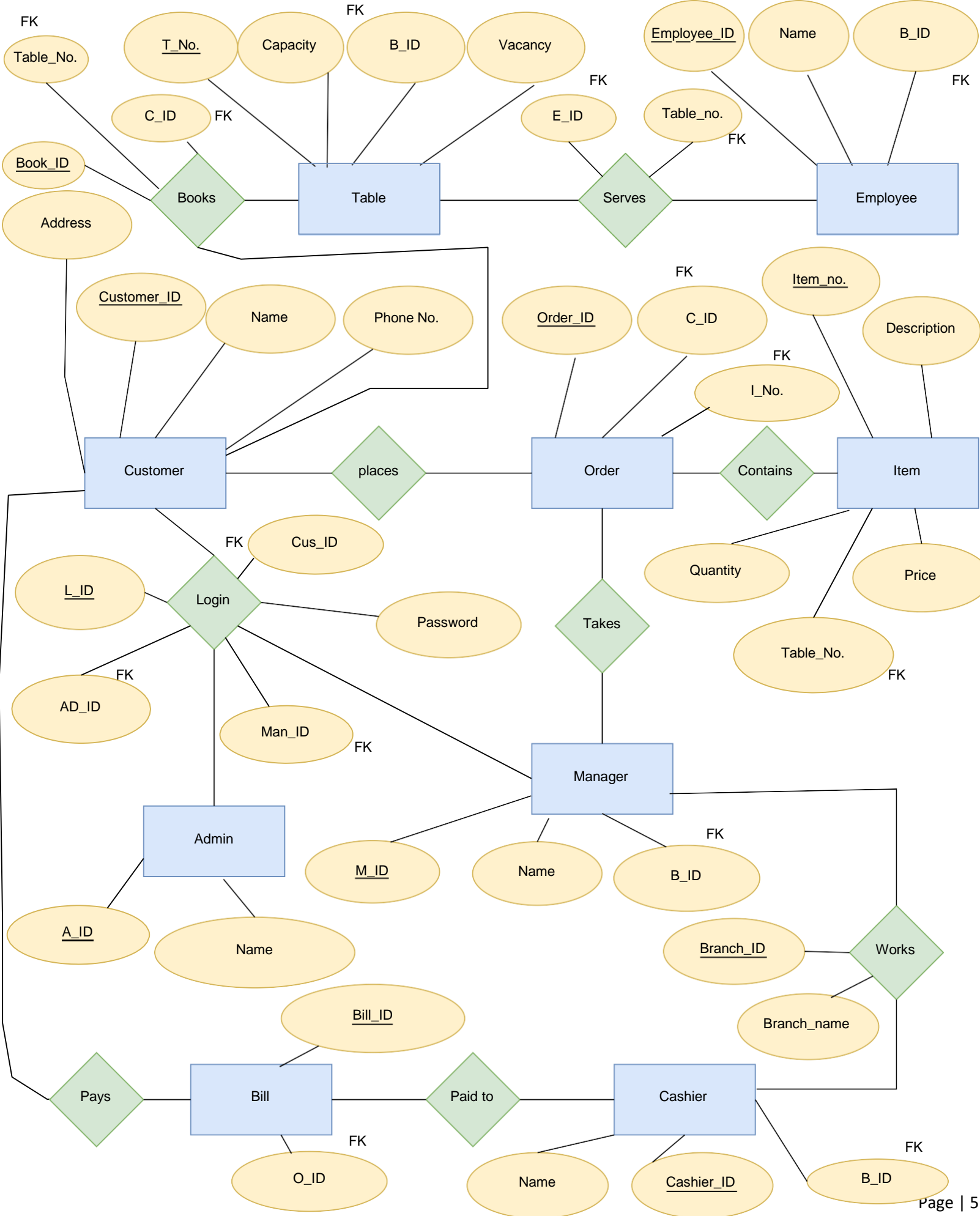
- **Login-Registration:** Customers, employees, admins will login to the system using the username and password provided by the system while creating their ids.

- **Ordering Food:** Customers can order food and employee can receive the order.
- **Booking Table:** Customers can reserve table for them.
- **Paying Bill:** Employee can create a bill against the order and customer can see the receipt as well as pay the bill.

**Software Requirements:**

- **Frontend:** Netbeans IDE 8.2
- **Backend:** SQL Server Management Studio 2008

**6. Entity Relationship Diagram:** The ERD is given below



**7. Schema/Table:** Possible entity, relationship, attributes are given below

Possible Entity	Possible Relationship	Possible Attributes
<ul style="list-style-type: none"> <li>■ Customer</li> <li>■ Order</li> <li>■ Item</li> <li>■ Admin</li> <li>■ Manager</li> <li>■ Bill</li> <li>■ Cashier</li> <li>■ Table</li> <li>■ Employee</li> </ul>	<ul style="list-style-type: none"> <li>■ Places</li> <li>■ Contains</li> <li>■ Takes</li> <li>■ Login</li> <li>■ Works</li> <li>■ Pays</li> <li>■ Paid to</li> <li>■ Books</li> <li>■ Serves</li> </ul>	<ul style="list-style-type: none"> <li>■ Customer_ID</li> <li>■ Name</li> <li>■ Phone No.</li> <li>■ Address</li> <li>■ Order_ID</li> <li>■ C_ID</li> <li>■ I_No.</li> <li>■ Item_No.</li> <li>■ Description.</li> <li>■ Quantity</li> <li>■ Table_No.</li> <li>■ Price</li> <li>■ L_ID</li> <li>■ Password</li> <li>■ AD_ID</li> <li>■ Man_ID</li> <li>■ Cus_ID</li> <li>■ A_ID</li> <li>■ Name</li> <li>■ M_ID</li> <li>■ Name</li> <li>■ B_ID</li> <li>■ Cashier_ID</li> <li>■ Name</li> <li>■ B_ID</li> <li>■ Bill_ID</li> <li>■ O_ID</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Branch_ID</li> <li>▪ Branch_Name</li> <li>▪ T_No.</li> <li>▪ Capacity</li> <li>▪ B_ID</li> <li>▪ Vacancy</li> <li>▪ Employee_ID</li> <li>▪ Name</li> <li>▪ B_ID</li> <li>▪ Table_No.</li> <li>▪ Book_ID</li> <li>▪ C_ID</li> <li>▪ E_ID</li> <li>▪ Table_No.</li> </ul>
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**8. Project Risk:** Though we will try to clean our project, but some issue will occur when using our project and that will be lazy loading, connection failed and registration failed etc. But we will try to keep your privacy safe because customers are our high priority.

**9. Conclusion:** We designed a system where the restaurants ordering system will be fully automated. The billing system is also automated. This will help both customer and the owner of the restaurants.