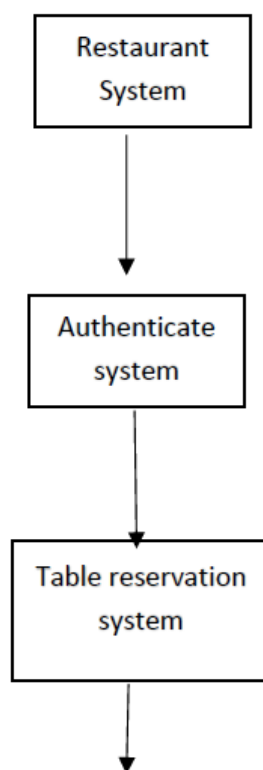# RESTAURANT MANAGEMENT SYSTEM
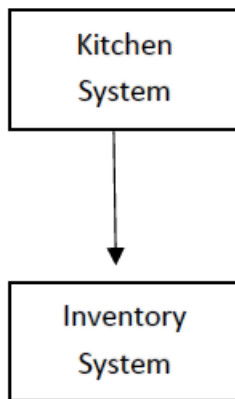
KAVUTHARAPU RAVINDRA

07-13-2022

1. The system deals with the table booking, orders management and inventory management of the Restaurant so that we can analysis the data and make you of optimal resource required to serve customer in a better way.

2. Name of similar Business: Toast Inc.

   ReverUS$1.7 billion.

   Number of Employees: 3,172 (Dec 2021)

   Ref: https://en.wikipedia.org/wiki/Toast,_Inc

3. Client Server design:

Would be using traditional two tire Client – Server where client will be providing user interface to reservation desk for table availability and order interface to collect order from different tables. Which will be the business logic and data processing logic. The server bares the data validation and database access for different requests.

Would like to use distributed database as the requirements has to be updated by all the users so it needs shareability and autonomy.

```
┌──────────────┐
│  Restaurant  │
│    System    │
└──────────────┘
        │
        ▼
┌──────────────┐
│ Authenticate │
│    system    │
└──────────────┘
        │
        ▼
┌──────────────┐
│Table reservation│
│    system    │
└──────────────┘
        │
        ▼
```

```
┌─────────────┐
│   Kitchen   │
│   System    │
│             │
└─────────────┘
       │
       │
       ▼
┌─────────────┐
│  Inventory  │
│   System    │
│             │
└─────────────┘
```

4. 5 important types of data which are planned to be used.

- Employee Data
  id int
  name varchar
  contact varchar
  email varchar
  address varchar
  dept_id int

- Order Data
  Id int
  Emp_id int
  Iteam_id int
  table_id int
  type varchar
  bill_id int
  instructions varchar
- Table Data
  Id int
  session
  start_time
  end_time
- Restaurant Data
  Id int
  name varchar
  type varchar
  chainname varchar
  address
- Department Data
  Id int
  name varchar
  designation varchar
- Customers Data
  Id int

name varchar
age int
contact varchar
address varchar

5. What kind of tool do you need?

Converts tools like Cloud converter and ETL technologies (AWS EMR) to extract the data from incompatible files to load it to cloud Database.

Example: Cloudconverter,AWS EMR

different file formats generally used for transfer are csv, text, json and xml.