

**SAL Engineering & Technical Institute
GUJARAT TECHNOLOGICAL UNIVERSITY AHMEDABAD**

Restaurant Management System

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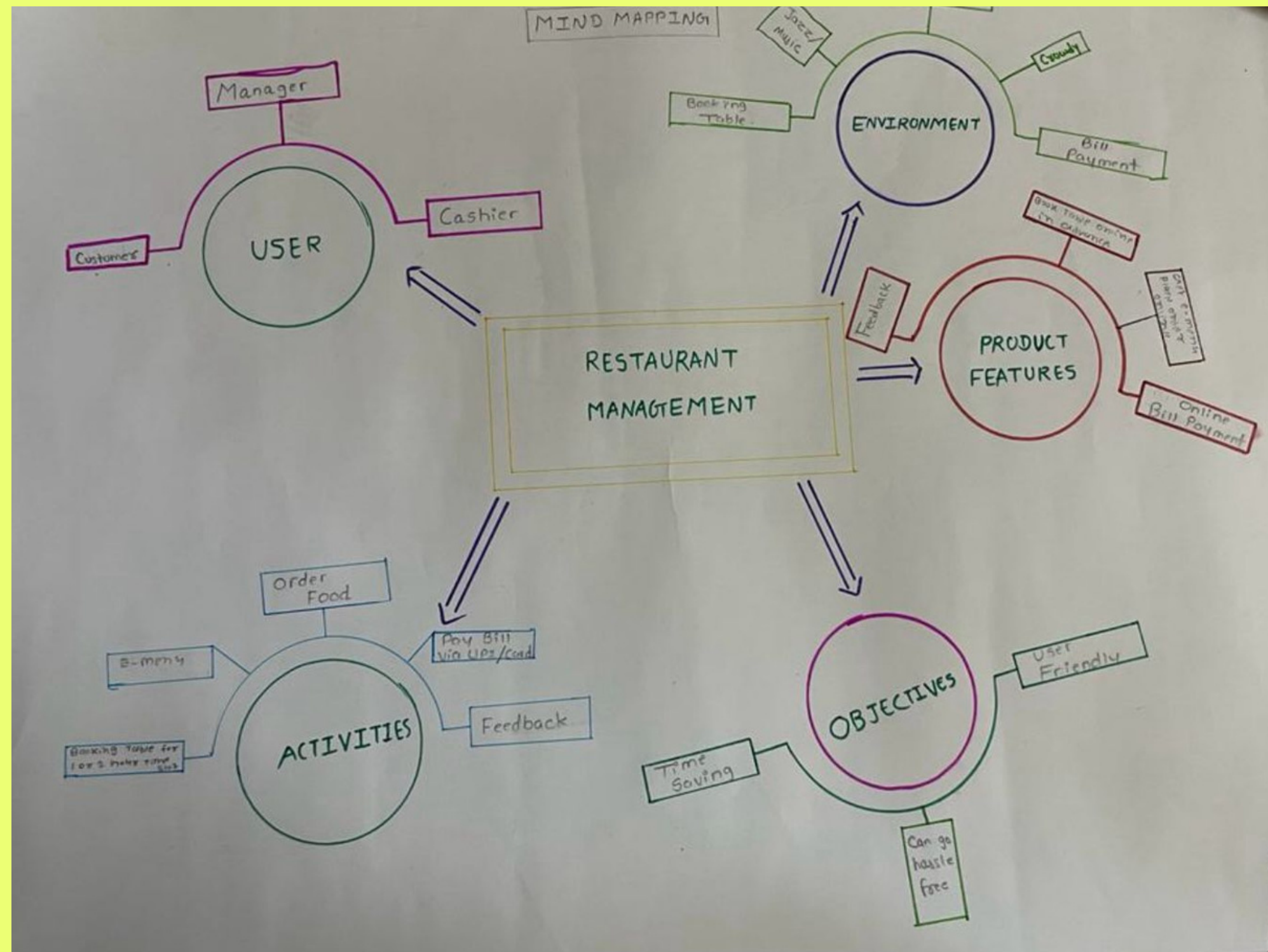
INTRODUCTION

We observe that whenever people wish to eating food in restaurant or a café, they must stand in long queue for reserve table after some time, they get their table in restaurant, this is not over in weekend there is so much crowd in restaurant that environment of that restaurant is too noisy, because of so much customer in restaurant management faces some issue like wrong order is taken, wrong order is delivered on table, customer get wrong bill, etc. after see this all problem we came up with this idea “RESTAURANT MANAGEMENT SYSTEM”

OBJECTIVE FOR THE NEW SYSTEM

- **User can book table in advance for some limited time.**
- **User can get e-menu for order food, E-menu is accessible by all member who is using smart phone so there is no problem with exchanging menu card for getting everyone opinion.**
- **User can get e-bill also and they can also pay bill via upi apps or cards.**
- **User can rate food and services online so management get to know where to improve their service**

MIND MAP



SAL EDUCATION

AEIOU Summary:

Group ID: 42625
Domain Name: 25510

Date:
Version:

Environment:

- General Impressions/observations (style, material and atmosphere)
- Floor Plan
- Elements, Features and Special Notes
- scenes

DI-ENO
ORDI
PAYME
H. 25510

Interaction:

- General Impressions/observations (Who is interacting with whom, what?)
- Scene of Interaction (how it is being done?)
- Elements, Features and Special Notes

Asking for bill to Table Chair
Giving
Asking the
Physical confirmation of restaurant scale

Object:

- General Impressions/observations (what components are involved? How?)
- Inventory of key Objects
- Elements, Features and Special Notes

DINING
CHAIR
MENU
T.V
COMITER

Activities:

- General Impressions/observations
- Sketch/photo – Summary of activity
- Elements, Features and Special Notes

BOOKABLE
GIVING ORDER
Rkt
Physical confirmation of restaurant / cafe

Users:

- General Impressions/observations (who is present? Role and responsibilities?)
- Scene of User in context
- Elements, Features and Special Notes

TEACH
BUSINESS

AEIOU
CANVAS

IDEATION CANVAS

the ideonaut : Ideation Canvas

EDUCATION

IDEATION CANVAS

Project : Project Team : Team

People People

Activities Activities

Situation/Context/Location Situation/Context/Location

Prop/Possible Solutions Prop/Possible Solutions

(Note: The image shows a hand-drawn ideation canvas with various sections and sticky notes. The sections are: Project, Team, People, Activities, Situation/Context/Location, and Prop/Possible Solutions. The sticky notes contain handwritten text, including 'Project', 'Team', 'People', 'Activities', 'Situation/Context/Location', and 'Prop/Possible Solutions'. The canvas is titled 'the ideonaut : Ideation Canvas' and 'EDUCATION IDEATION CANVAS'. There is also a small icon of a person in the 'People' section and a bicycle icon in the 'Activities' section.)

EMPATHY CANVAS

Design For		EDUCATION	
Date		Design by	
Version			
USER		STAKEHOLDERS	
CUSTOMER RESTAURANT MANAGER CASHIER		STUDENT DOCTOR TEACHER PILOT ENGINEER LAWYER	
ACTIVITIES			
LOGIN/REGISTER ORDERING FOOD Payment Request for Order Booking Booking Table for Specific Time Slot PAYING VIA UPI Payment confirmation via WhatsApp / call Scheduling QR CODE FEEDBACK Ordering E-Menus ENTERTAIN			
STORY BOARDING			
HAPPY After booking a table through our website / application the user can go back home without worrying about the restaurant price which makes the user enjoy the food without waiting in the queue			
HAPPY A user can go digital from booking a table to paying bills conveniently and also ordering the food by just scanning a QR code			
SAD A user goes to the restaurant but the user has to wait in the long queue to get into the restaurant and then the user has to wait a bit longer for waiting for food			
AD Users can order by just scanning a QR code and can order as per their convenience and get bills on the mobile phone and can enter the payment conveniently and can pay using UPI / cards with a lot of time the user			

PRODUCT DEVELOPMENT CANVAS

SRM EDUCATION

PRODUCT DEVELOPMENT CANVAS

Product Development Canvas

Team / Date / Version _____

? Purpose Time to market Minimize Provide on To avoid a Custom	Product Experience Crown icon USER Satisfying TIME SAVING Perceived	Customer Revalidation Checkmark icon Buy to go One hand job Multi-purpose Can save a time
	Product Functions Wrench icon Solve time One on one view plan Generate Order FEE	
	Product Features Briefcase icon If it any the working time saved in it Save up the money Pay via Physical information at restaurant / cafe Online Feedback	
People People icon REST	Components Gears icon HTML ANDAS SQL JavaScript	Reject, Redesign, Retain Flask icon Po

LEARNING NEED MATRIX

SAL EDUCATION

Learning Needs Matrix

Group ID :- 426 Date :-

Tools/ Methods/ Theories/ Application process involved	During	BE IV	Applicable standards and design specifications/ Principles and Experiments
Tools/ Methods/ Theories/ Application process involved	During	BE III	Applicable standards and design specifications/ Principles and Experiments
	During	BE II	Applicable standards and design specifications/ Principles and Experiments
	Purpose / Product concept		Applicable standards and design specifications/ Principles and Experiments
Software/ Simulation/ Skill Mathematical Requirement	VS - St		Component material strength criteria (exploration varieties testing requirements)

Restaurante Management System

HTML

Scan QR Code

Payment History

Table Booking

Selecting + e-menu

Payment

e-menu

create table

reserve Table

Features of the System

Cost :- Less the man power lesser the cost with the assistance of machine to do work.

Time :- Usually to get things done one must do physical interactions and that takes lots of time in offline mode.

User Friendly :- Graphical representation makes complex problems look simple user can easily adapt the System with better interface user can access it.

Reliability :- Due to the transparency of the System it is reliable , every kind of help will be provided to users and users can do business their way.

Feedback:- User can provide the feedback for the specific restuarant.

HARDWARE AND SOFTWARE SPECIFICATIONS:

- **HARDWARE SPECIFICATION**

- **SERVER SIDE RAM:**

4 GB RAM

- **CLIENT SIDE RAM:**

1 GB RAM

- **HARD DRIVE STORAGE NEEDED:**

500 GB HARD DISK

- **PLATFORM SUPPORTED OPERATING SYSTEM:**

WINDOWS 7,8,10 ,MACOS

- **PROGRAMMING SERVER:**

APACHE SERVER 2

- **TECHNICAL SPECIFICATION:**

- **FRONT END:**

HTML, CSS, PHP,JAVASCRIPT

- **BACK END:**

APACHE MY SQL

- **IDE:**

MICROSOFT VISUAL STUDIO 2022

- **DOCUMENTATION TOOLS:**

MICROSOFT OFFICE WORD 2016

MICROSOFT OFFICE POWER POINT 2016

CONCLUSION

Restaurant management system user can book table in advance for some limited time. User can get e-menu for order food; e menu is accessible by all member who is using smart phone so there is no problem with exchanging menu card for getting everyone opinion. User can get e-bill also and they can also pay bill via upi apps or cards. User can rate food and services online.

REFERENCES:

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- <https://www.javatpoint.com/>
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THANK YOU!!