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SYNOPSIS

**ON**

**SMART RESTAURANT MENU**

Submitted By: Submitted To:

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**Title of the Project:**

Quickky( A Smart Restaurant Menu)

**Objective:**

The main objective of this project is to enhance the dining experience for customers by incorporating technology-driven features and functionalities.

**Scope:**

This project intends to provide a platform where one can have a seamless, personalized and efficient dining experience.

**Methodology:**

The project will be implemented using frontend development (HTML, CSS, JAVASCRIPT), Node Js, Express, MongoDB, Bootstrap technologies.

**Proposed System:**

A Smart Restaurant Menu which replaces traditional paper menus with digital interfaces that enhance the dining experience for customers and streamline operations for the restaurant staff.

**Features:**

Key Features of the website:

-> A secure authentication system

-> Responsive Design: Ensuring the website works well on different devices and screen sizes.

-> Menu Content: A digital menu with content of food and beverage items, descriptions, prices, images, nutritional information and allergen warnings.

-> Ordering System: Customers can place orders directly from their digital devices, specifying customization options, special requests and quantities.

-> Feedback Collection: After completing their meal, customers are prompted to provide feedback on their dining experience directly through the digital menu interface to analyze the areas for improvement.

**Implementation Plan:**

Step 1: Project Setup and Planning

Duration: 1 Week

Define project requirements and objectives.

Create wireframes and mockups for the user interface.

Set up the development environment (install necessary software/tools).

Step 2: Frontend Development

Duration: 2 Weeks

Develop the frontend UI using HTML, CSS, and Bootstrap.

Implement responsive design to ensure compatibility with various devices.

Integrate JavaScript for interactive elements and user experience enhancements.

Implement QR code generation functionality using a JavaScript library like qrcode.js.

Step 3: Backend Development (Node.js)

Duration: 3 Weeks

Set up a Node.js environment for server-side development.

Design and develop RESTful APIs for serving menu data and handling user requests.

Implement authentication and authorization mechanisms.

Integrate with a database system (e.g., MongoDB) for storing and retrieving menu data.

Step 4: Integration and Testing

Duration: 2 Weeks

Integrate frontend and backend components to create a functional system.

Conduct unit tests for individual components/modules.

Perform integration testing to ensure seamless interaction between frontend and backend.

Test QR code scanning functionality across different devices and browsers.

Week 1-2: Project Setup and Planning

Week 3-4: Frontend Development

Week 5-7: Backend Development (Node.js)

Week 8-9: Integration and Testing

**Team Members:**

Priyanshi Sharma

Bharat Kumar

Tanishka Agarwal

Krishnanand Yadav

**Resources Required:**

->Web Development Tools: Code editor or integrated development environment (IDE), Command Prompt for writing and editing HTML, CSS, JavaScript, MongoDB.

->Hardware: Development Computer, Mobile phone -for testing web responsiveness and QR code scanning.

->Software: Text editor VSCode, Web browser, Node.js, Git, MongoDB, Hosting service

-> API and services

**References:**

Online resources like geeks for geeks, w3schools.com, expressjs.com, etc.

**Expected Outcomes:**

A successful smart restaurant menu website that revolutionize the traditional dining experience for customers and optimizing operations and increasing revenue for the restaurant.

**Project Supervisor:**

Mr. Akash Kumar Choudhary

**Conclusion:**

A Smart Restaurant Menu website including essential features such as user authentication, search and navigation, digital menu interface, menu exploration, ordering process, upselling and recommendation, order tracking and status updates, feedback collection.