Proposal Report on

**Responsive Food Ordering Website.**

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***Submitted to***

**Department of Computer and IT Engineering**

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*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF COMPUER/IT ENGINEERING**

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**Introduction:**

In this mini-project, we are creating a user-friendly responsive food ordering website. Where users can get every knowledge about the available foods on our platform. We are basically trying to make day to day life of people easy by providing quality and quantity food at a reasonable price by ordering foods from our website. This website will be operated for a particular restaurant.

**Aims and Objectives:**

Aim: “Study the complexity of ordering the food from the website and trying to solve that complexity .”

*Objective:*

       To take orders from the users.

       To store the user's information in the database.

       To authorize and process payments online via different online payment methods.

**Implementation Plan:**

As our website is based on ReactJS (library of JavaScript), the website is made up of different components such as Navbar, Featured Carousel, Footer, etc. In this way, a complex website is divided into many components and can be viewed in a single page by routing the components to the Index page.

The main reason to choose React is this very reason that rather than writing the code in a single file the components can be routed back to the App or the Index page as required or not. This reusability feature allows us to use the very code (such as Navbar and footer) we write that doesn’t need to change every page we further make. Being a library of JavaScript it gives us features such as Object-oriented, Platform Independent, Rich Interfaces, Versatility, and Efficient Performance. [1]

For database, we intend to learn and use MongoDB as it is well known for its horizontal scaling and load balancing capabilities, which has given application developers an unprecedented level of flexibility and scalability. MongoDB Atlas is the leading global cloud database service for modern applications. Using Atlas, developers can deploy fully managed cloud databases across AWS, AZURE, Google Cloud Best-in-class data security and privacy standards practices mean that developers can rest easy knowing that they have instant access to the availability, scalability, and compliance they require for enterprise-level application development.[2]

 The top 5 technical features of MongoDB are:

1.      Ad-hoc queries for optimized, real-time analytics

2.     Indexing appropriately for better query executions

3.     Replication for better data availability and stability

4.     Sharding

5.     Load balancing. [2]

We plan to implement online payment integration into our website so that the users can pay for their food during the ordering process using online payment gateways such as eSewa, Khalti, ConnectIPS, and PayPal. PayPal checkout seamlessly integrates PayPal’s popular online payments system into your Web App, leveraging the PayPal JavaScript SDK. [3]

**References:**

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[3] "PayPal Checkout Integration with React - Unimedia Technology", Unimedia Technology, 2022. [Online]. Available: https://www.unimedia.tech/2021/10/09/paypal-checkout-integration-with-react/. [Accessed: 06- Jun- 2022].

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