**Artificial Intelligence – Project Development Phase**

**Model Performance Test (QuickBite)**

**Project Information**

* **Project Name:** QuickBite – Smart Food Recommendation and Delivery System
* **Team ID:** LTVIP2025TMID57182
* **Phase:** Project Development
* **Date:** 31 January 2025

**1. Project Description**

**QuickBite** is a next-generation, user-friendly web application engineered to transform the way people discover and order food. Its signature feature is a personalized meal recommendation engine powered by user dietary preferences and nutrition plans, supporting *healthier* and *more convenient* choices.

QuickBite is designed for three primary user groups:

* **General Customers:** Enjoy tailored daily menus, diverse cuisines, and restaurant browsing based on personal diet goals.
* **Restaurant Partners:** Manage food listings and menus efficiently with a dedicated dashboard for partners.
* **Platform Admins:** Oversee all platform operations and ensure smooth workflow through an admin interface.

The platform utilizes the **MERN stack** (MongoDB, Express.js, React.js, Node.js) for a secure, responsive, and mobile-friendly experience.

**2. Tech Stack Overview**

|  |  |
| --- | --- |
| Layer | Technology |
| Frontend | React.js, TailwindCSS, Vanilla CSS |
| Backend | Node.js, Express.js |
| Database | MongoDB Atlas |
| Authentication | Role-based (admin, restaurant, user) |
| Version Control | Git, GitHub |

**3. Customer-Centered Problem Statements**

**Template:**  
I am (Customer)  
I’m trying to  
But  
Because  
Which makes me feel

**PS-1**

* I am a busy professional with specific dietary needs.
* I’m trying to quickly find meals that fit my nutrition goals and order from local restaurants.
* But existing platforms don’t offer meal recommendations based on personal diet plans.
* Because most food ordering apps only filter by basic categories, not nutritional preferences.
* Which makes me feel frustrated and worried that I can’t easily maintain my healthy diet.

**PS-2**

* I am a local restaurant partner looking to expand my customer base.
* I’m trying to efficiently manage my menu and attract health-conscious customers.
* But most platforms don’t offer personalized listing tools or highlight my diet-specific offerings.
* Because they focus on generic food categories.
* Which makes me feel overlooked in a competitive market.

**4. Key Features**

* Personalized meal recommendations tailored to each user’s diet and nutrition requirements.
* Three dedicated user dashboards (customers, restaurant partners, admins).
* Seamless food ordering process from discovery through checkout.
* Mobile-friendly, secure, and real-time management tools for all users.

**5. Model Performance Testing**

The project team shall fill the model performance testing information in line with the QuickBite application’s personalized recommendation system and platform performance metrics.

**Please copy this content into your project’s official Word document to maintain formatting, structure, and clarity. If you need it delivered as a .docx file, let me know!**

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