Assignment: M03 Requirements Documents
Team Name: Green
Group Members: Maurice Farr, Ann Chen, Ryan Engelken, Emmanuel Akinseye, Harjot Singh
Date: 3/31/2025

Name of Group Project: BiteNow

Introduction:

The purpose of our group project is to develop a website that replicates the functionalities of the food delivery service DoorDash. The goal of this project is to make delivery simple and enjoyable for customers by providing an intuitive interface where users can explore local restaurants and receive meals quickly and conveniently. To complete this mission, we plan to take advantage of reliable web technologies and efficient backend systems to accommodate for a smooth experience for both the user and restaurant partners, all while maintaining security and scalability.

User Requirements Definition:

- **Account Creation and Login:** Users will be required to create an account and log in securely.

- **Restaurant Listings and Search:** Users can browse a list of restaurants categorized by type, location, or ratings.

- **Menu Browsing and Order Placement:** Users will be able to view restaurant menus, select items, and add them to a shopping cart. In addition, users can customize their orders (example: add special instructions for the food).

- **Order Tracking:** Once the order is placed, users can track the status of their delivery.

System Architecture:

- **Front-End (User Interface):** The frontend will be developed by using HTML, CSS, and JavaScript. This will provide a responsive interface for browsing and ordering food items.

- **Back-End (Server Side):** The backend will be formed by using a robust framework, such as Django.

- **Database:** A relational database (SQLite) will be utilized to store user data, restaurant menus, and order history.

- **Administrative Panel:** Administrators will be allowed to manage users, restaurants, and oversee transactions.

- **APIs:** APIs will be used to integrate third-party services, including maps for location tracking.

System Evolution:

As the project progresses, the website will evolve to implement new features and adapt to changing user needs. Initially, the system will focus on the core functionalities of user authentication, browsing restaurants, and placing orders. Over time, we will expand the website by adding more advanced features, such as ratings and reviews, and any others that will be determined in the later stages of the project. Additionally, scalability will be a key component as the user base grows, ensuring that the website can handle increased traffic without compromising performance.

Systems Development Life Cycle:

- **Planning:** We will define the scope of the project, set clear goals, and break the work into milestones. This will include identifying the technology components and the team roles.

- **Requirements Analysis:** We will meet together as a group to gather all the necessary requirements (both functional and non-functional) to create our website.

- **Design:** We plan to create wireframes and user interface design, which will allow us to finalize design documents and mockups for the website.

- **Coding:** We will begin coding the website based on the design specifications, which will include the front-end development, back-end setup, and database integration.

- **Testing:** We will perform testing, such as conducting unit and integration, to identify and fix bugs or issues during the development.

- **Deployment:** We will deploy the website to a live server to ensure that it is running smoothly and that it is accessible for other users.

- **Maintenance:** As the project progresses, we will monitor the website performance, add new features, and fix any post-launch issues.

Appendices:

- **System Software:** We will be using Visual Studio Code for our coding and SQLite to store our database.

- **Hardware and Software:** We will be using a PC with internet access to build our website.

- **System Software Language:** The system software language we will use is JavaScript. In addition, we will be developing our website by coding in Python.