Software Requirements Specification (SRS) Document  
Life Organics

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**1. Introduction**

"Life Organics" has established itself as an innovative e-commerce platform that prioritizes a superior online shopping experience. The platform has been meticulously crafted, leveraging cutting-edge technologies such as ASP.NET, HTML, JSON, and SQL. This tech stack not only ensures a robust architecture but also contributes to the overall efficiency and functionality of the website.

**1.1 Purpose**

At Life Organics, our e-commerce platform stands as a digital marketplace, designed with precision using ASP.NET, HTML, JSON, and SQL. Offering a rich interface, it facilitates the effortless procurement of organic fruits, vegetables, and leafy greens. Customers experience the perfect blend of technology and nature, ensuring a trustworthy and delightful shopping journey.

**1.2 Scope**

Life Organics Ecommerce System is an all-encompassing platform designed to provide users with a comprehensive and seamless shopping experience. The user registration feature allows customers to create personalized accounts. The product browsing functionality ensures an intuitive interface for users to explore a diverse range of organic fruits, vegetables, and leafy greens.

The shopping cart management system enables customers to add, edit, and review selected items before proceeding to checkout process.

The order history tracking feature enables customers to monitor and review their past purchases, fostering a sense of transparency and facilitating future shopping decisions. User profiles offer a personalized touch, allowing individuals to manage preferences and track their interactions with the platform.

In essence, Life Organics Ecommerce System is a technologically advanced and user-centric platform, seamlessly integrating features that prioritize user convenience, security, and satisfaction. From registration to order history tracking, every aspect of the system has been meticulously crafted to provide a holistic and enjoyable online shopping experience for organic produce enthusiasts.

**1.3 Definitions, Acronyms, and Abbreviations**

* SRS: Software Requirements Specification
* UI: User Interface
* MVC: Model View Controller
* JSON: JavaScript Object Notation
* API: Application Programming Interface
* HTTPS: Hypertext Transfer Protocol Secure
* CRUD: Create Read Update Delete

**1.4 References**

1. **Official Documentation:**

* + Microsoft ASP.NET Documentation
  + W3C HTML Documentation
  + JSON Official Website
  + SQL Server Documentation

1. **Books and Journals:**
   * Explore platforms like Google Scholar, IEEE Xplore, and ResearchGate for academic papers and journals.
2. **Forums and Communities:**
   * Stack Overflow is a popular Q&A community where developers share knowledge.
   * Reddit - r/webdev is a subreddit focused on web development discussions.

**1.5 Overview**

The Organic Life Store is dedicated to catering to individuals who prioritize their health and the environment. The platform goes beyond traditional e-commerce by specializing in organic produce, including fruits, vegetables, and leafy greens. This focus not only caters to the growing demand for healthy food choices but also aligns with the global movement towards sustainable living.

The user-centric design of the platform is evident in its features. Customers can easily navigate the website, register effortlessly, and explore a diverse range of organic products. The shopping experience is made convenient with a user-friendly interface, intuitive product browsing, and a secure checkout process that prioritizes the protection of sensitive information.

The commitment to sustainability is a key aspect of the Organic Life Store. By offering organic produce, the platform supports environmentally conscious choices, contributing to the well-being of both individuals and the planet. This emphasis on sustainable living is woven into the fabric of the platform, aligning with the values of modern consumers who seek not only healthy options but also products that reflect a commitment to ecological responsibility.

**2. Overall Description**

**2.1 Product Perspective**

The Life Organics Ecommerce Website operates independently as a standalone system, interacting with users exclusively through a web-based User Interface (UI). This self-contained platform offers a seamless user experience, encompassing key functionalities like user registration, product browsing, shopping cart management, secure checkout, and order history tracking. The web-based UI ensures accessibility through standard browsers, providing a user-friendly interface for customers to engage with the platform's offerings of organic produce. The emphasis on independence fosters a streamlined and cohesive online shopping experience, where all essential features are integrated within the website, promoting efficiency and convenience for health-conscious consumers.

**2.2 Product Functions**

* User registration and authentication.
* Browse products by category.
* Add/remove products to/from the shopping cart. (*proposed*)
* View and track order history. (*proposed*)
* Maintain user profiles. (*proposed*)
* Payment integration for seamless transactions. (*proposed*)
* Allow users to review and rate products. (*proposed*)
* Admin panel for managing products, users, and orders.

**2.3 User Classes and Characteristics**

* **Customers:** Individuals interested in purchasing organic products.
* **Administrators:** Responsible for managing the website, products, and orders.

**2.4 Operating Environment**

The Life Organics Ecommerce System will function within a web-based environment, ensuring compatibility with contemporary browsers. This approach guarantees widespread accessibility, allowing users to seamlessly engage with the platform's features using popular web browsers. The system's design prioritizes user convenience, offering a consistent and reliable experience across different browser platforms.

**3. System Features**

**3.1 User Registration and Authentication:**

The User Registration and Authentication feature enable customers to create personalized accounts securely. Users can register with their details, and the system validates and authenticates their credentials, ensuring a secure and personalized experience for accessing the platform.

**3.2 Product Catalog:**

The Product Catalog feature offers a diverse and organized display of organic fruits, vegetables, and leafy greens. Users can browse through detailed product listings, accessing information such as prices, descriptions, and nutritional facts, facilitating informed and enjoyable shopping experiences.

**3.3 Shopping Cart:**

The Shopping Cart feature allows users to add, modify, and review selected items before finalizing their purchase. This interactive and user-friendly component ensures customers have control over their shopping selections, enhancing convenience and flexibility during the browsing and selection process.

**3.4 Checkout Process:**

The Checkout Process feature provides a secure and straightforward mechanism for users to complete their purchases. It involves entering shipping details, choosing payment methods, and confirming orders. The system ensures the confidentiality of sensitive information, fostering trust and reliability during transactions.

**3.5 Order History:**

The Order History feature enables users to track and review their past purchases. Customers can access comprehensive details regarding previous transactions, promoting transparency and allowing for easy reordering of favorite products. This feature contributes to a personalized and user-centric approach to online shopping.

**Conclusion**  
This Software Requirements Specification document outlines the features and functionalities of the Life Organics Ecommerce Website. It serves as a comprehensive guide for the development team to design and implement the system effectively.