Project Design Phase-I Solution Architecture

Date	22 September 2023
Team ID	590962
Project Name	Snacks Squad
Maximum Marks	4 Marks

Solution Architecture:

App streamlines access to a wide array of wholesome snack choices, promoting nutritional balance and fostering a culture of mindful eating. By offering a user-friendly platform for personalized and convenient snack selection, it encourages users to make informed dietary decisions that align with their health goals and preferences. With its emphasis on diverse and nutritious options, the app contributes to improved overall well-being, instilling a sense of wellness and satisfaction among users. Through its efficient and accessible approach, it cultivates a healthier snacking routine, ultimately leading to a positive impact on users' lifestyles and long-term health. Moreover, by encouraging the consumption of wholesome snacks, the app contributes to a broader societal shift towards healthier eating habits and wellness-conscious living.

Solution Architecture Diagram

User Interface Layer (Mobile Application Interface) Interactive and User-Friendly Design Customizable Snack Selection Options
Business Logic Layer
(Application & Database Servers)
Inventory Management Systems
Recommendation Engines
Secure Order Processing
Networking Layer
(APIs, Push Notifications, CDN)
Seamless Communication via APIs
Real-time Push Notifications for Orders
Efficient Content Delivery via CDN
Data Management Layer
(User Profiles, Inventory, Orders)
Secure and Efficient Data Storage
Reliable User Profile Management
Streamlined Order History Maintenance
Circumined Order mistory maintenance

Personalization & Customization Layer

Personalized Snack Recommendations Customization Options for Users Dietary Preference Management

Third-Party Integrations I aver

Third-Party Integrations Layer
Secure Payment Gateway Integration
Seamless Delivery Service Integration
Comprehensive Analytics Integration

Scalability & Performance Layer
Load Balancers for User Traffic Management
Caching Mechanisms for Data Optimization
Autoscaling Capabilities for User Demand

