

# GreenLife App

## Functional Requirements

### Screen 1: Sign in Screen

This screen is to welcome users and provide an interface for them to sign into the app or create an account if they are new users.

### Screen 2: Home screen

The second screen is the home screen you'll see after logging into the app which would be the marketplace. For existing users this screen will show personalised recommendations to products the user may like. This screen has a navigation bar at the bottom for easy switching to other screens.

### Screen 3: Community Tab

By clicking the community button on the navigation bar, the user can switch to this screen. This screen contains a social media like interface which allows users to interact with each other and share things like workout routines, diets, share recipes and motivation. This screen contains a much simpler interface compared to traditional social media apps.

### Screen 4: Product Information

If a user clicks on a product on the home screen they will be sent to this screen. This screen provides all the important details regarding the product like the price, nutritional information, the product's sourcing and ethical considerations. Functionality to add the product to the user's cart.

### Screen 5: Cart

This screen shows the users cart and the option to remove items, increase/decrease the quantity and check out.

### Screen 6: Check Out

This screen is where the user checks out. User has to choose between having their products being delivered or collecting it in store from one of our retail partners. After purchase has been made a thank you message is displayed.

## Non-Functional Requirements

### 1. Performance:

Response Time: The app should respond to user actions or product searches within 2 seconds.

Throughput: The app should support at least 500 concurrent users during peak hours.

### 2. Scalability:

Horizontal Scaling: The app should be able to handle a 50% increase in user traffic during promotions by adding additional server resources.

Vertical Scaling: The app should efficiently utilize server resources to handle increased load during peak times.

### **3. Availability and Reliability:**

Uptime: The app should be available to users 99.9% of the time, with scheduled maintenance communicated in advance.

Fault Tolerance: The app should gracefully handle errors or disruptions without affecting the entire system.

### **4. Security:**

Authentication: Users should log in using secure methods like email/password or biometric authentication.

Authorization: Only authorized users should access the community tab, and user data should be protected.

Data Encryption: Sensitive user information should be encrypted during storage and transmission.

Compliance: The app must comply with healthcare data security regulations, such as HIPAA.

### **5. Usability and User Experience:**

Accessibility: The app should adhere to accessibility guidelines to ensure it's usable by individuals with disabilities.

User Interface (UI): Consistent and intuitive UI/UX design should enhance user experience.

Response to Inputs: The app should provide real-time feedback for user interactions within the community tab.

### **6. Compatibility:**

Cross-Platform: The app should support iOS and Android mobile devices, as well as web browsers.

Browser/OS Versions: Support the latest versions of popular web browsers and mobile operating systems.

### **7. Performance and Load Testing:**

Load Testing: Simulate user traffic and interactions within the community tab to ensure it can handle increased usage during peak times.

Stress Testing: Determine the app's performance limits under extreme user loads.

### **8. Data Management:**

Data Backup and Recovery: Implement regular data backups and ensure quick recovery in case of data loss.

Data Retention Define data retention policies, particularly for user-generated content within the community.

### **9. Scalability (Community Tab):**

Community Data Scaling: Ensure that the community tab can scale to accommodate a growing number of users and discussions.

## **10. Maintainability and Support:**

Code Maintainability: Adhere to coding standards for ease of maintenance.

Support and Maintenance: Offer ongoing support, including bug fixes and updates, for community interaction features.

## **11. Performance Monitoring and Logging: Monitoring:**

Implement monitoring tools to track app performance and user interactions within the community tab. Logging: Log user interactions and community content for auditing and moderation purposes.

## **12. Localization and Internationalisation:**

Localization: Make the app adaptable to different languages and cultural preferences.

Internationalisation: Develop the app to easily support localization efforts.

## **13. Legal and Compliance:**

Copyright and Licensing: Ensure all health product descriptions and images comply with copyright and licensing agreements.

Privacy: Safeguard user data in compliance with health data privacy laws and regulations.

## Low-Fidelity Prototype

Screen 1: Sign in

GreenLife

Sign in Join now

email \_\_\_\_\_

password \_\_\_\_\_

Sign in

Forgot password?

Screen 2: Home screen

GreenLife

Search

Departments

☐ ☐ ☐

☐ ☐ ☐

Top Deals

☐ ☐ ☐

☐ ☐ ☐

Screen 3: Community tab

GreenLife

Keegan 15h  
How many hours do you get?  
15 10

AJ 3m  
You've got this!

3 1

James  
Cheat day meal?

20 20

Screen 4: Product Information

GreenLife

APPLES (16)

540 kcal

Juicy golden apples

Screen 5: Cart

< Back CART

Checkout

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Total: 50.00

Screen 6: Checkout

Checkout

Add coupon: \_\_\_\_\_

Delivery ~~gurt~~

1 Comery Avenue

Order Summary:

5 items R500

Pay with CARD