Prototyping Task 2

Functional Requirement:

Description: The application shall provide a unified user authentication system that enables users to access all integrated services and features within the app using a single set of login credentials.

Rationale: A unified authentication system is required to eliminate the need for multiple passwords and simplify user access.

1. Users shall be able to create an account with the application using their email addresses or social media accounts (e.g., Google, Facebook).

2. Upon account creation, users shall set a single password for their account, which will serve as the primary authentication method.

3. Using industry-standard encryption techniques, The application shall securely store user authentication data, including passwords.

4. Users shall be able to reset their password in case of forgetfulness or account recovery, following a secure identity verification process.

5. When accessing any integrated service or feature (e.g., clothing, shopping, food, navigation), users shall be prompted to log in using their unified login credentials.

6. After successfully logging in, users shall have seamless access to all integrated services without the need for repeated logins during a single session.

7. The application shall implement security measures to protect against unauthorized access and data breaches.

8. Users shall have the option to log out from their unified session to ensure account security.

9. User Registration: Users must be able to create an account with a username and password.

10. Search Functionality: The system should allow users to search for products by keyword.

11. Shopping Cart: Users should be able to add and remove items from their shopping cart.

12. Payment Processing: The system must process payments securely through multiple payment methods.

13. Email Notifications: Users should receive email confirmations for their orders.

Non-Functional requirements

1. Performance Requirements:

Response Time: The application should provide fast response times, ensuring that users can access information and perform tasks quickly.

Scalability: The system should be able to scale gracefully to accommodate increased user traffic without significant performance degradation.

Efficiency: The application should be resource-efficient to minimize CPU and memory usage on users' devices.

2. Usability and User Experience:

Intuitive User Interface: The user interface should be intuitive and user-friendly, with clear navigation and a visually appealing design.

Accessibility: The application should comply with accessibility standards to ensure that it can be used by individuals with disabilities.

Consistency: The user experience should be consistent across different features and services within the unified app.

3. Security and Privacy:

Data Encryption: User data, including personal information and payment details, should be securely encrypted during transmission and storage.

Authentication: Strong authentication methods should be in place to protect user accounts and sensitive data.

4. Reliability and Availability:

Availability: The application should be highly available, with minimal downtime for maintenance.

Data Backup: User data should be regularly backed up to prevent data loss in case of system failures.

5. Compatibility:

Device Compatibility: The application should be compatible with a wide range of devices, including smartphones and tablets, across various platforms (iOS, Android).

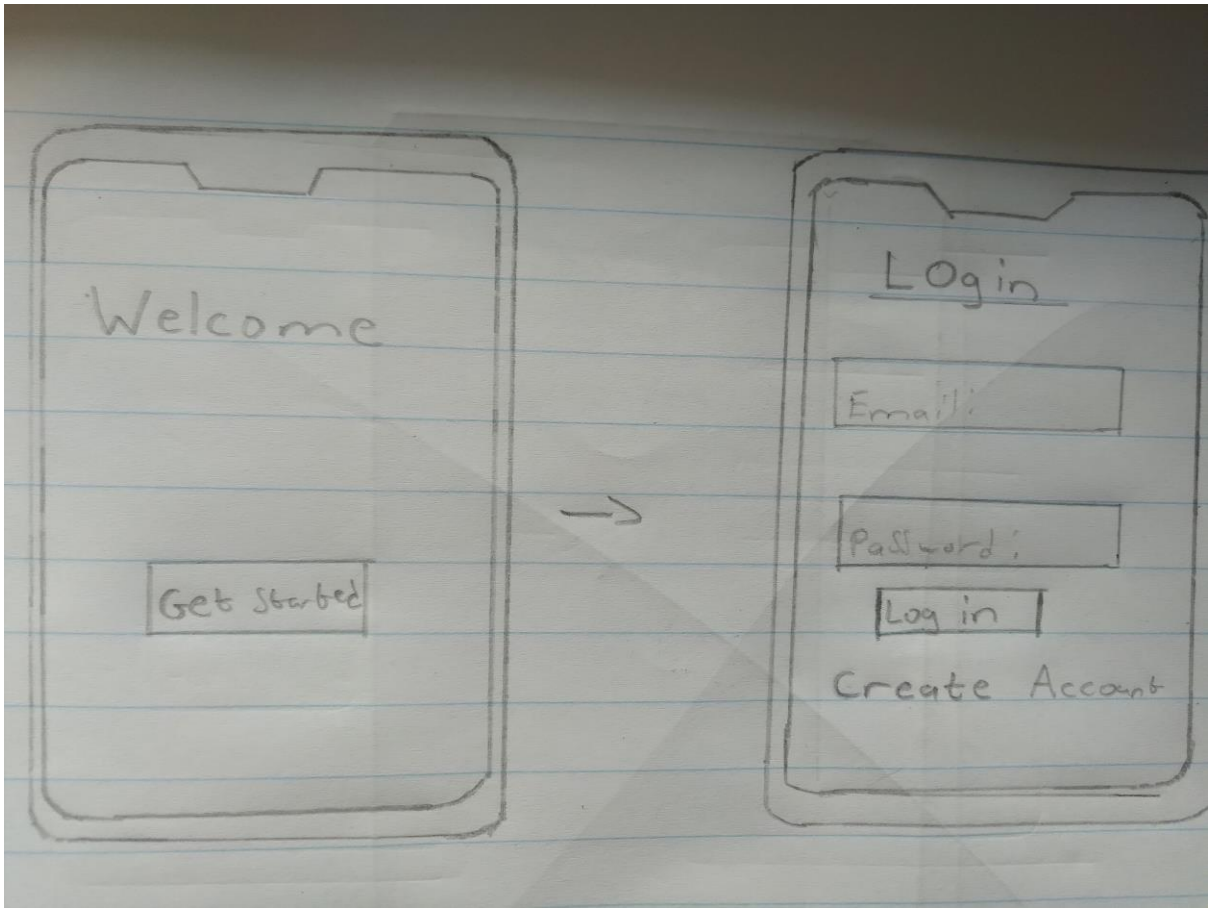
Browser Compatibility: If a web version is available, it should be compatible with major web browsers.

6. Data Management:

Data Security: Measures should be in place to protect user data from unauthorized access, including data breaches and cyberattacks.

Data Storage: Efficient data storage mechanisms should be employed to optimize storage space on users' devices.

Low fidelity Design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Get Started
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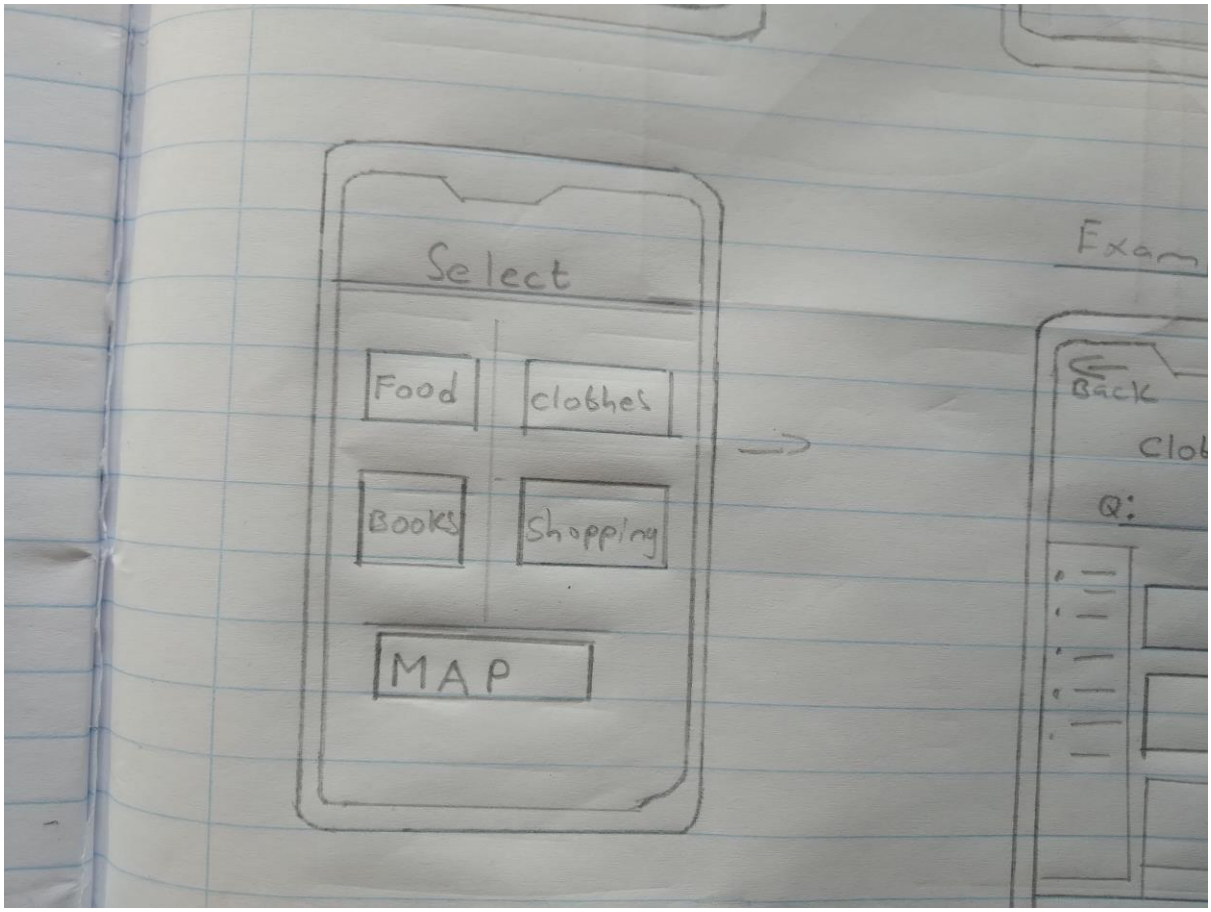
Password:
Log in
Create Account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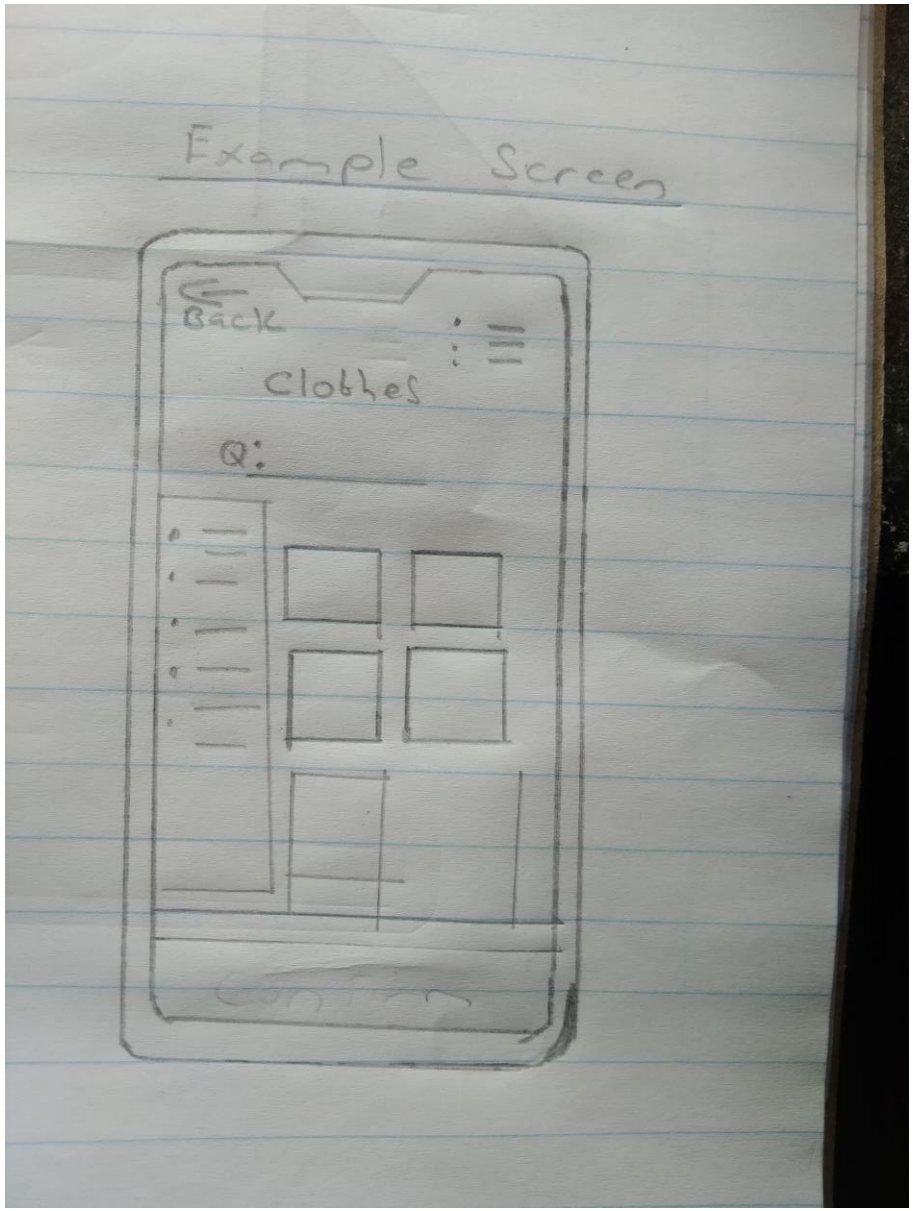
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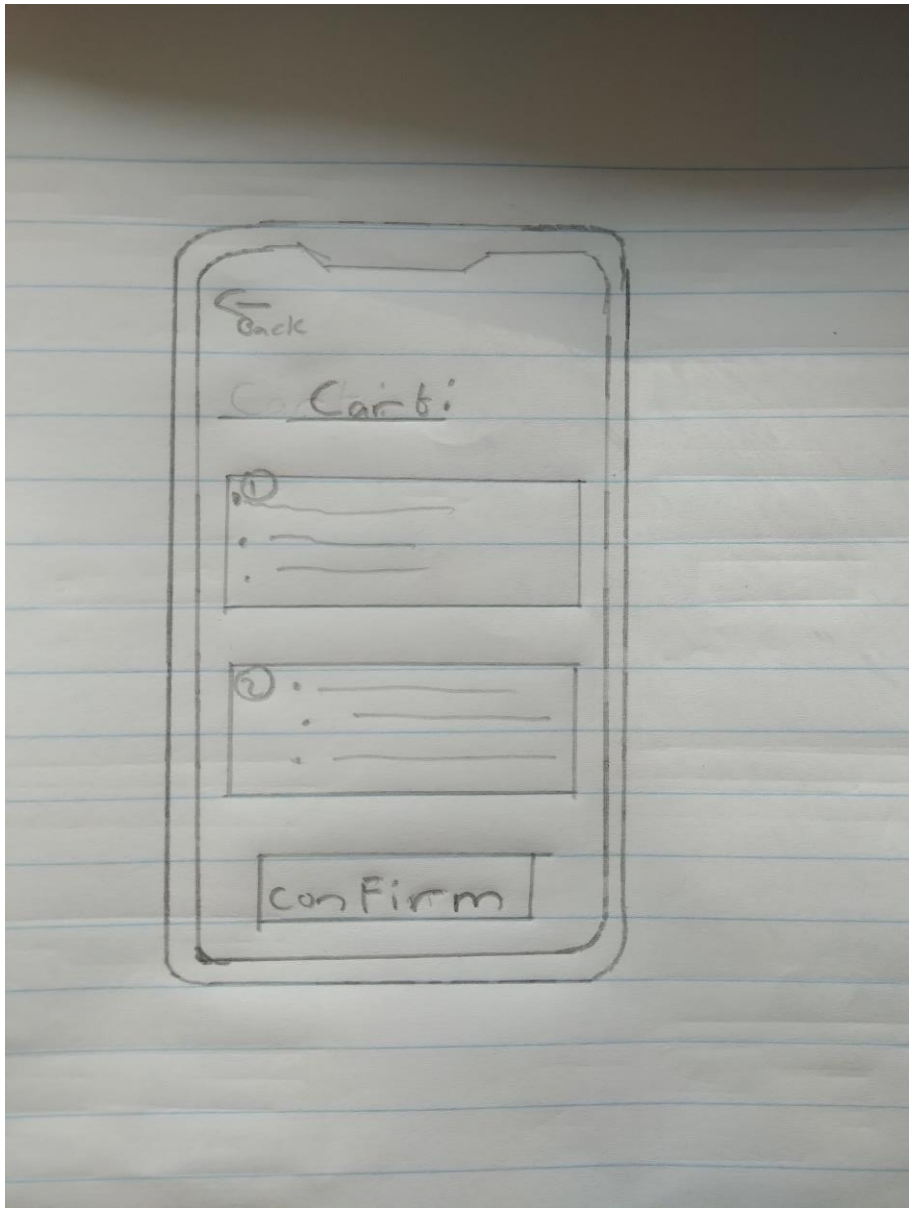
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