1. **List of Epics.**

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| **Epic** | **Requirement Type** | **Priority** |
| Wardrobe Organization | Functional | Must Have |
| Outfit Planning | Functional | Must Have |
| Purchases | Functional | Should Have |
| Sharing Experience | Functional | Could Have |
| User Experience and Accessibility | Non-Functional | Must Have |
| Data Management and Integrity | Non-Functional | Should Have |

1. **Decompose Epics into Stories**

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| **Title:** Add Items by Scanning Barcode | |
| **User story 1** | |
| **As a** | user |
| **I want to** | be able to add items to my wardrobe by scanning barcode |
| **So that** | I can create items in my wardrobe |
| **AC 1 - User have chosen bar code option** | |
| **Given** | the user is on the add items page |
| **When** | the user selects the option to add items by barcode |
| **Then** | the app displays the barcode scanning interface |
| **AC 2 - User scanned barcode** | |
| **Given** | the user is on the barcode scanning interface |
| **When** | the user scans a valid barcode |
| **Then** | app reads the barcode |
| **And** | app displays the retrieved item details on the screen |
| **AC 3 - Item details from the barcode** | |
| **Given** | the user has scanned a valid barcode |
| **When** | the app retrieves the item details |
| **Then** | the app should display the following information:   * Name of the item * Name of the shop * Material of the item * Size * Color * Price * Brand * Care instructions |
| **AC 4 - Confirm Item Details** | |
| **Given** | the user has scanned a barcode |
| **And** | the item details are displayed |
| **And** | the user has edited item information |
| **When** | the user confirms addition of the item to their wardrobe |
| **Then** | item is created in the app |
| **And** | item details are saved |
| **AC 5 - Error handling for invalid barcode** | |
| **Given** | barcode is invalid |
| **When** | the user scans an invalid barcode |
| **Then** | the app displays an error message indicating that the barcode is invalid |
| **And** | app displays try again button |
| **AC 6 - Cancel Barcode Scan** | |
| **Given** | the user is anywhere during the barcode scanning phase |
| **When** | the user decides to stop scanning barcode |
| **Then** | the user can press cancel button |
| **And** | return to the add items page |

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| **Title:** Add Items by Scanning QR code | |
| **User story 2** | |
| **As a** | user |
| **I want to** | be able to add items to my wardrobe by scanning QR code |
| **So that** | I can create items in my wardrobe |
| **AC 1 - User have chosen QR option** | |
| **Given** | the user is on the add items page. |
| **When** | the user selects the option to add items by QR code |
| **Then** | the app displays the QR code scanning interface |
| **AС 2 - User scanned QR code** | |
| **Given** | the user is on the QR scanning interface |
| **When** | the user scans a valid QR code |
| **Then** | the app reads the QR code |
| **And** | app displays the retrieved item details on the screen |
| **AC 3 - Item details from QR code** | |
| **Given** | the user has scanned a valid QR code |
| **When** | the app retrieves the item details |
| **Then** | the app should display the following information:   * Name of the item * Name of the shop * Material of the item * Size * Color * Price * Brand * Care instructions |
| **AC 4 - Confirm Item Details** | |
| **Given** | the user has scanned a QR code |
| **And** | the item details are displayed |
| **And** | the user has edited item information |
| **When** | the user confirms addition of the item to their wardrobe |
| **Then** | item is created in the app |
| **And** | item details are saved |
| **AC 5 - Error Handling for Invalid QR code** | |
| **Given** | QR code is invalid |
| **When** | the user scans a QR barcode |
| **Then** | the app displays an error message indicating that the QR code is invalid |
| **And** | app displays try again button |
| **AC 6 - Cancel QR Code Scan** | |
| **Given** | the user is anywhere during the barcode scanning phase |
| **When** | the user decides to stop scanning QR code |
| **Then** | the user can press cancel button |
| **And** | return to the add items page |

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| **Title:** Add Items by Taking Photos | |
| **User story 3** | |
| **As a** | user |
| **I want to** | be able to add items to my wardrobe by taking photos |
| **So that** | the item will be created in my digital wardrobe. |
| **AC 1 - User has chosen photo option** | |
| **Given** | the user is on the add items page |
| **When** | the user selects the option to add items by taking photos |
| **Then** | the app displays the camera interface for taking a photo |
| **And** | the app displays instructions on how to take a correct photo:   * The photo is taken on a monotone background * The image is clear and well-lit |
| **AC 2 - User takes unclear photo** | |
| **Given** | the user is on the camera interface |
| **And** | the user takes a photo of the clothing item |
| **When** | The photo does not meet requirements |
| **Then** | the app displays the error message stating the reason why photo is not suitable |
| **And** | the app prompts the user to retake the photo |
| **AC 3 - Display Photo for Confirmation** | |
| **Given** | the user has taken a photo that meets the requirements |
| **When** | the app processes the photo |
| **Then** | the app displays the photo on the screen for user confirmation |
| **AC 4 - User confirms addition of item to the wardrobe** | |
| **Given** | the app displays the photo on the screen for user confirmation |
| **When** | user pressed confirm button |
| **Then** | item is added to the wardrobe |
| **And** | the user is notified that the item has been successfully added |
| **AC 5 - Cancel Photo Addition** | |
| **Given** | the user is on any step of addition process by photo |
| **And** | the user decided to cancel addition by photo |
| **When** | the user press cancel button |
| **Then** | the user is returned to the add items page |

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| **Title:** Background removal by AI Assistant | |
| **User story 4** | |
| **As a** | user |
| **I want to** | remove background using AI assistant |
| **So that** | I can have photo suitable for adding to the item in wardrobe |
| **AC 1 - User has chosen edit option** | |
| **Given** | The user is on item details page |
| **And** | The user has uploaded a photo to the item |
| **When** | The user selects edit photo option |
| **Then** | App displays edit photo page |
| **AC 2 - User has Chosen Background Removal Option** | |
| **Given** | The user is on edit photo page |
| **When** | The user selects the AI background removal option. |
| **Then** | The background is removed. |
| **AC 3 - Review and Confirm Background Removal** | |
| **GIven** | the AI assistant has completed background removal |
| **And** | the app displays the processed photo |
| **And** | user has reviewed photo |
| **When** | user confirms edited photo |
| **Then** | app saves the photo updates |
| **AC 4 - Save Photo with Removed Background** | |
| **Given** | the user has confirmed the background removal |
| **When** | the user saves the photo |
| **Then** | the app saves the photo with the removed background to the user's item |
| **And** | the user is notified that the photo has been successfully saved |
| **AC 5 - Cancel Background Removal** | |
| **Given** | the user is at any step in the background removal interface |
| **When** | the user decides not to proceed with background removal |
| **Then** | the user selects cancel the process |
| **And** | user is returned to the photo editing page |

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| **Title:** Categorize Items | |
| **User story 5** | |
| **As a** | user |
| **I want to** | categorize items in my wardrobe folders |
| **So that** | I can sort and locate items based on categories |
| **AC 1 - User accesses categorization feature** | |
| **Given** | the user is on the wardrobe page |
| **When** | the user selects an item or multiple items to categorize |
| **Then** | the app displays the categorization options |
| **AC 2 - Categorize by Color** | |
| **Given** | the user has selected items to categorize |
| **And** | the app displays categorization option |
| **When** | the user chooses the color categorization option |
| **Then** | the app displays a list of color categories |
| **And** | the user selects one or more colors from the list to assign to the items |
| **AC 3 - Categorize by Weather** | |
| **Given** | the user has selected items to categorize |
| **When** | the user chooses the weather categorization option |
| **Then** | the app displays a list of weather categories |
| **And** | the user selects one or more weather types (e.g., hot, cold, rainy) to assign to the items |
| **AC 4 - Categorize by Events** | |
| **Given** | the user has selected items to categorize |
| **When** | the user chooses the events categorization option |
| **Then** | the app displays a list of event categories |
| **And** | the user selects one or more event types (e.g., casual, formal, sports) to assign to the items |
| **AC 5 - Confirm categorization** | |
| **Given** | the user has assigned categories to items |
| **When** | the user chooses confirm the categorization |
| **Then** | the app updates the items with the selected categories |
| **And** | app notifies the user that the items have been successfully categorized |
| **AC 6 - Edit Items Categorization** | |
| **Given** | the user views an item in the wardrobe |
| **When** | the user chooses to edit the item's categorization |
| **Then** | the app displays categorization options |
| **AC 7 - Edit category** | |
| **Given** | the user is editing item categorization |
| **When** | the user selects new categories to assign to the item |
| **Then** | the app updates the item with the selected categories |
| **And** | app notifies the user that the item has been successfully updated |
| **AC 8 - Remove item from a category** | |
| **Given** | the user is editing an item's categorization |
| **When** | the user removes the category from the item |
| **Then** | the app updates the item's category option |
| **And** | app notifies the user that the item has been successfully updated |
| **AC 9 - Cancel Categorization Process** | |
| **Given** | the user is in the process of categorizing items |
| **When** | the user decides not to proceed with the categorization |
| **Then** | the user can cancel the process |
| **And** | user returns to the wardrobe page without saving any changes |

1. **Create Backlog**

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| **Backend (20 story points)** | | | |
| **Priority** | **Epic** | **User Story** | **Story Points** |
| 1 | Data Management and Integrity | Data encryption | 8 |
| 6 | Data Management and Integrity | Quick App Access | 5 |
| 14 | Data Management and Integrity | Real-Time Synchronization | 8 |
| Total: |  | 21 |  |

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| **Frontend (20 story points)** | | | |
| **Priority** | **Epic** | **User Story** | **Story Points** |
| 2 | Wardrobe Organization | Add items by taking photos | 5 |
| 3 | Outfit Planning | Create outfits | 5 |
| 5 | User Experience and Accessibility | Cross-platform accessibility | 8 |
| Total: |  | 18 |  |

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| **Mobile (20 story points)** | | | |
| **Priority** | **Epic** | **User Story** | **Story Points** |
| 2 | Wardrobe Organization | Add items by taking photos | 5 |
| 5 | User Experience and Accessibility | Cross-platform accessibility | 8 |
| 13 | User Experience and Accessibility | Offline Access | 8 |
| Total: |  | 21 |  |

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| **Overall First Sprint Table** | | |
| **Team Role** | **User Story** | **Story Points** |
| Backend | Data encryption | 8 |
| Backend | Quick App Access | 5 |
| Backend | Real-Time Synchronization | 8 |
| Frontend | Add items by taking photos | 5 |
| Frontend | Create outfits | 5 |
| Frontend | Cross-platform accessibility | 8 |
| Mobile | Add items by taking photos | 5 |
| Mobile | Cross-platform accessibility | 8 |
| Mobile | Offline Access | 8 |