

# Functional Requirements (FRs)

## FR ID      Functional Requirement Description

<b>FR01</b>	The system shall allow users to register using email, password, or phone number.
<b>FR02</b>	The system shall allow users to log in securely using valid credentials.
<b>FR03</b>	The system shall allow users to reset their password via email or OTP.
<b>FR04</b>	The system shall allow users to upload a photo from the gallery.
<b>FR05</b>	The system shall allow users to capture a photo using the camera.
<b>FR06</b>	The system shall analyze the uploaded photo to extract face and body attributes.
<b>FR07</b>	The system shall allow users to enter their preferences (colors, styles, body type, etc.).
<b>FR08</b>	The system shall generate personalized outfit recommendations.
<b>FR09</b>	The system shall provide suitable color palette suggestions based on user appearance.
<b>FR10</b>	The system shall recommend grooming and hairstyle tips based on face shape.
<b>FR11</b>	The system shall recommend accessories (glasses, jewelry, watches, etc.).
<b>FR12</b>	The system shall provide shopping links for the recommended clothing and products.
<b>FR13</b>	The system shall allow users to save recommended outfits to their favorites.
<b>FR14</b>	The system shall allow users to manage a virtual wardrobe (add, view, delete items).
<b>FR15</b>	The system shall allow users to view daily fashion and grooming tips.
<b>FR16</b>	The system shall send push notifications for daily tips or updates.
<b>FR17</b>	The system shall allow users to edit their profile information.
<b>FR18</b>	The system shall store all user data in encrypted form.
<b>FR19</b>	The system shall allow users to choose between local or cloud photo processing.
<b>FR20</b>	The system shall allow users to search for items within the virtual wardrobe.
<b>FR21</b>	The system shall generate occasion-based recommendations.
<b>FR22</b>	The system shall log user activity for improving personalized suggestions.
<b>FR23</b>	The system shall allow users to delete their account permanently.

# Non-Functional Requirements (NFRs)

## 1. Performance Requirements

- The system shall respond to all user actions within 3 seconds.
- The system shall complete photo analysis within 5–8 seconds.
- The system shall support at least 5,000 concurrent users.
- The system shall load the main interface within 2 seconds.

## 2. Security Requirements

- The system shall encrypt all stored user data and images.
- The system shall use secure authentication for all user accounts.
- The system shall protect all data transfer using HTTPS.
- The system shall apply role-based access control.
- The system shall not store user photos without explicit permission.

## 3. Usability Requirements

- The system shall provide a simple and intuitive interface.
- The system shall display clear labels, icons, and navigation menus.
- The system shall support readable fonts and high-contrast themes.
- The system shall guide users clearly during photo upload and analysis.

## 4. Reliability Requirements

- The system shall maintain 99% uptime.
- The system shall recover automatically after minor failures.
- The system shall perform scheduled backups for cloud users.

## 5. Scalability Requirements

- The system shall scale to support increasing users and data.

- The system shall allow new modules to be added without redesign.

## **6. Maintainability Requirements**

- The system shall use modular and well-structured code.
- The system shall include proper documentation for all components.
- The system shall allow updates with minimal downtime.

## **7. Compatibility Requirements**

- The system shall support Android devices running version 8.0 or higher.
- The system shall adjust its layout to different screen sizes.
- The system shall remain compatible with major web browsers.