

# Functional Specification Document (FSD): Online Apparels Shopping Website

## 1. Introduction and Project Scope

This document details the functional specifications for the development of the **Online Apparels Shopping Website**, an e-commerce platform intended to transform the client's offline apparels business into an online model<sup>1</sup>. The scope includes designing and developing a frontend website for buyers and a web-based backend/admin panel for the business owner.

### 1.1 Project Objectives

The primary objectives are to:

- Enhance the client's offline business by launching an online e-commerce website for apparels<sup>3</sup>.
- Provide an online platform for buyers to search for, select (e.g., Shirts, Jeans), and order apparels with online payment<sup>4</sup>.
- Enable the business owner (Admin) to manage products, categories, prices, sizes, and colors, and handle order delivery/shipment<sup>5</sup>.
- Allow customers to track their order shipments<sup>6</sup>.

### 1.2 Out-of-Scope Functionality

The following features are explicitly **not** within the scope of this project:

- Ordering customized products<sup>7</sup>.
- Real-time order tracking<sup>8</sup>.
- Cash on delivery (COD) payment option for buyers<sup>9</sup>.

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## 2. System Users and Roles

The system supports three main user roles with distinct access and functionalities:

Role	Description
<b>Visitors/Guest User</b>	Can search products by keyword/category, view product descriptions, ratings/reviews, share products on social media, and check shipping availability by PIN code.
<b>Buyers (Registered Customers)</b>	All Visitor functions, plus: Login/Registration, advanced product search (filters/sorting), viewing product listings/details, adding to wishlist/cart, checkout, online payment, posting ratings/reviews, managing their account/address book, and tracking orders.
<b>Admin/Owner</b>	Responsible for managing the entire website backend: managing products, categories, orders, customers, shipping, payments, CMS, statistics/reports, and system roles/permissions.

### 3. Functional Specifications (Frontend: Buyer/Guest)

This section details the functions accessible to buyers and guest users, based on the BRD's functional requirements (FR-001 to FR-013).

#### 3.1 Account Management (Login/Registration)

Req #	Priority	Specification Detail
<b>FR-001</b>	Critical (1)	<b>Login:</b> Users shall be able to log in using their registered email and password. A 'Reset Password' option shall be available. Users must also be able to log in using <b>Facebook</b> and <b>Google</b> accounts <sup>14</sup> .
<b>FR-002</b>	Critical (1)	<b>Registration:</b> Buyers must register using a simple form (First name, Last name, Email ID, Contact number, Password, Conform password). They must accept terms and conditions. <b>Email ID</b>

Req #	Priority	Specification Detail
		<b>verification</b> (via a link sent to the registered email) is mandatory before the user can log in <sup>15</sup> .
<b>FR-010</b>	Critical (1)	<b>My Account:</b> Logged-in buyers can access and manage their Profile details (email, phone number), change password, view/manage Addresses, My Orders, My Wishlist, Shopping Cart, and Ratings and reviews <sup>16</sup> .

### 3.2 Product Discovery and Shopping

Req #	Priority	Specification Detail
<b>FR-003</b>	Critical (1)	<b>Product Search:</b> Buyers/Guests can search for products by <b>keyword</b> , browsing <b>category/sub-category</b> , and using <b>filters and sorting</b> options. Searching is available without login <sup>17</sup> .
<b>FR-004</b>	Critical (1)	<b>Product Listing:</b> The product listing page (visible to Buyer/Guest without login) shall display the <b>Product title, Thumbnail image, Price, and Ratings &amp; reviews</b> <sup>18</sup> .
<b>FR-005</b>	Critical (1)	<b>Product Details:</b> The product details page (visible to Buyer/Guest without login) shall display <b>Product title, Thumbnail image, Product images, Product description, Price</b> , available <b>Sizes/colors</b> (variations), and <b>Ratings &amp; reviews</b> . Users can check shipping availability by entering a <b>PIN code</b> <sup>19</sup> .
<b>FR-006</b>	High (2)	<b>Wishlist:</b> Requires Buyer registration/login. Buyers can view, add, or delete products from their wishlist. Products in the

Req #	Priority	Specification Detail
		wishlist can be moved to the shopping cart for checkout <sup>20</sup> . <b>Note:</b> Adding to wishlist is not possible without login <sup>21</sup> .
FR-007	Critical (1)	<b>Shopping Cart:</b> Requires Buyer registration/login. Users can add/remove items and update the quantity of items. The cart shall display the item price, sub-total, and total price <sup>22</sup> .

### 3.3 Checkout and Order Management

Req #	Priority	Specification Detail
FR-008	Critical (1)	<b>Checkout &amp; Payment:</b> Requires Buyer login. Before payment, the buyer must enter <b>billing and shipping addresses</b> . Payment methods must include <b>Credit card/debit card</b> and <b>Net banking</b> . The order summary shall display Item total, Sub-total, Shipping cost, Tax, and Order total <sup>23</sup> . <b>Stripe</b> payment gateway will be integrated for online payment <sup>24</sup> .
FR-012	Critical (1)	<b>Order History &amp; Tracking:</b> Buyers can view a list of all past orders and detailed information (total amount paid, shipping address, items, price per unit). Users can <b>track the status</b> of their current orders and <b>reorder</b> items from past order details <sup>25</sup> . Order status updates will trigger <b>email notifications</b> <sup>26</sup> .

### 3.4 Communication and Engagement

Req #	Priority	Specification Detail
FR-011	High (2)	<b>Ratings &amp; Reviews:</b> Requires Buyer registration/login. Users can only post ratings and reviews for products they have previously <b>ordered</b> from the website <sup>27</sup> .
FR-009	Low (4)	<b>Social Media Sharing:</b> Buyers/Guests can share products on social media. Login is <b>not mandatory</b> <sup>28</sup> .
FR-013	High (2)	<b>Contact Support:</b> Buyers/Guests can contact support via email for queries/complaints by submitting their name, email, contact number, and message. Admin will receive an email with the complaint details <sup>29</sup> .

#### 4. Functional Specifications (Backend: Admin/Owner)

This section details the functions accessible via the web-based admin panel, based on the BRD's functional requirements (FR-014 to FR-026).

##### 4.1 Admin Access and Dashboard

Req #	Priority	Specification Detail
FR-014	Critical (1)	<b>Admin Login:</b> Admin/Sub-users can log in using a username and password. A 'Reset Password' option shall be available <sup>30</sup> .
FR-015	Critical (1)	<b>Dashboard:</b> The Admin Dashboard shall display key metrics: Total no. of active and inactive registered buyers, Total no. of Products uploaded, and Total Revenue (today/this month) <sup>31</sup> .

##### 4.2 Core Business Management

Req #	Priority	Specification Detail
FR-019	Critical (1)	<b>Products Management:</b> Admin can Add/Edit/Active/Inactive products in the catalog. Information managed includes Product name, Images, Description, Keywords, and <b>Variations (color, size)</b> <sup>32</sup> .
FR-018	Critical (1)	<b>Product Categories Management:</b> Admin can Add/Edit/Active/Inactive product categories and sub-categories <sup>33</sup> .
FR-017	Critical (1)	<b>Orders Management:</b> Admin can view a list of all orders with their current status, view/edit order details, and <b>update the order status</b> . Possible statuses are: Open, Confirmed, In process, Shipped, and Delivered <sup>34</sup> .
FR-017	Critical (1)	<b>Shipping Management:</b> Admin is responsible for order shipment and shall maintain shipment details: <b>Shipping carrier, Tracking ID, Current status of shipment, Delivery location/address, and Shipping cost</b> <sup>35</sup> .
FR-016	Critical (1)	<b>Buyers Management:</b> Admin can view/edit/activate/inactivate buyer account information, including profile details, address, orders, wishlist, and items in cart <sup>36</sup> .
FR-020	Medium (3)	<b>Ratings &amp; Review Management:</b> Admin can <b>approve/reject</b> ratings and reviews posted by the buyers for products <sup>37</sup> .
FR-019	Critical (1)	<b>Payment Management:</b> Admin can view/edit bank account details (to receive payments) and view the <b>payment status</b> of each order. <b>Stripe</b> payment gateway will be used <sup>38</sup> .

#### 4.3 System Configuration and Reporting

Req #	Priority	Specification Detail
FR-024	Critical (1)	<b>CMS Management:</b> Admin can edit the content for the following CMS pages: About us, Contact us, Privacy policy, and Terms and conditions <sup>39</sup> .
FR-021	High (2)	<b>Statistics &amp; Reports:</b> Admin can view reports on <b>Products uploaded</b> (filterable by Date: From-To, Month, Year) and <b>Revenue/total sale</b> (filterable by Today, Current week, Date: From-To, Month, Year). Reports can be exported to <b>PDF</b> and <b>Excel</b> formats <sup>40</sup> .
FR-022	High (2)	<b>System Users Management:</b> Admin can create/edit/delete/activate/inactivate <b>sub-users</b> for various sectional operations <sup>41</sup> .
FR-023	High (2)	<b>Roles Management:</b> Admin can add/edit/delete/activate/inactivate sub-admin users with <b>role-based access</b> <sup>42</sup> .
FR-026	High (2)	<b>Complaints/Feedbacks:</b> Admin can view queries/complaints/feedbacks received from buyers (via FR-013). The admin will also receive an email notification for each submission <sup>43</sup> .
FR-025	Medium (3)	<b>Email Management:</b> Admin can add/edit/delete content for emails to be sent to buyers regarding new product launch, offers, and promotions <sup>44</sup> .

## 5. Non-Functional Requirements (NFR)

The following non-functional requirements must be met:

ID	Requirement	Specification
NFR-001	Scalability	The website repository shall accommodate up to <b>100 concurrent users</b> <sup>45</sup> .
NFR-002	Speed/Performance	Web pages should load in <b>less than 3 seconds</b> under good internet speed <sup>46</sup> .
NFR-003	Reliability/Availability	Web pages must not display "page not found" errors for non-existent pages <sup>47</sup> .
NFR-004	Security	<b>SSL security and encryption</b> are mandatory for online payments <sup>48</sup> .