

<PAVANE>

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# **Software Requirements Specifications**

**<Version 1.0>**

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## 1. Introduction

### 1.1 Purpose:

The Purpose of this document is to identify the Software Requirements Specification (SRS), The project scope, characteristics and Features of <PAVANE> Software.

### 1.2 Intended Audience:

Developers / Testers / Sponsors

### 1.3 Scope:

- **Customers** interested in clothing and fashion. This software aims to suggest clothes from different Brands to users based on their preferences and interests. Users also can search and filter the items.
- **Clothing Brands** Benefits comes from showcasing their collections and products, where <PAVANE> is considered a marketing platform for their items.
- **Admins** will have the overall control on the platform.

## 2. Overall Description

### 2.1 Product Perspective:

<PAVANE> is an online platform that offers clothing Brands an opportunity to showcase their products. Also, Customers benefit from the wide range of items available on the platform. There are two main features that both Brands and Customers benefit from, which are, the presence of a Recommendation System that suggests items to customers based on their preferences, and the availability of a 3D space environment that offers a unique experience in viewing the items. The main strategy of <PAVANE> is increasing the consumption rate of the customers.

### 2.2 User Needs:

#### 2.2.1 Cheap Subscription:

- Customers will only be charged for <50 L.E> monthly after enjoying a free trail.
- brands will only be charged for <200 L.E> monthly.

#### 2.2.2 Marketing:

- The platform provides an inexpensive marketing opportunity for brands and a satisfactory result.

- Due to competitiveness in the market encourages the brands to utilize this marketing platform.

### **2.2.3 Customers Satisfaction:**

- Customers will be able to browse items from all brands and see all the available discounts in one app.
- recommendation of suitable items for the customer's taste from various brands.
- Announce him with the latest offers, and collections.
- Fitting room that allows user to try on the outfit on 3D model.

## **2.3 User Classes and Characteristics:**

### **2.3.1 Customers:**

- **Characteristics**
  - Name
  - Date of birth
  - Phone Number
  - Email
  - Password
  - Location
  - Gender
  - Image
  - referral Link
  - Account type (Standard, Premium)
  - Payment Method Data
    - Card number
- **Privileges**
  - Have three free trials
  - View all brands and view their items, collections, and categories
  - Rate brands, items, and collections
  - Like brands, items, and collections
  - Upgrade to a higher plan
  - Edit his profile data

#### **2.3.1.1 Standard Customer:**

- **Privileges**
  - Subscribe for premium
  - Can try the fitting room up to three times.

#### 2.3.1.2 Premium Customer:

- **Privileges**
  - Try on the clothes in the fitting room on 3D model
  - Renew subscription

#### 2.3.2 Brands:

- **Characteristics**
  - Name
  - Categories
  - Phone Numbers
  - Email
  - Password
  - Image
  - Items
  - collections
- **Privileges**
  - Add, Edit, Delete, and View items
  - Add, Edit, Delete, and View collections
  - Add, Edit, Delete, and View offers
  - Add, Edit, Delete, and View sales
  - view statistics and analysis
  - subscribe for fitting room

#### 2.3.3 Super Admin:

- **Characteristics**
  - Email
  - Password
  - Name
- **Privileges**
  - Full access on all users including brands and customers
  - View statistics and analysis
  - Add, Edit, and Delete users (customers, admins, brands)
  - Add, Edit, and Delete (brands, customers, items, collections and offers).
  - Add, Edit, and Delete advertisement

## 2.4 Design and Implementation Constrains:

#### 2.4.1 Tools and Technologies:

- Mobile App => Flutter
- Web Front-End => React.js
- Back-End => Node.js with express
- Machine Learning => Python, TensorFlow Extended

- Database => Mongo DB
- 3D Model => Blender, Marvelous designer, substance painter, substance designer

#### **2.4.2 Policies:**

- Developers must write Documentations
- The source code is the business owners' property

#### **2.4.3 Languages of the platform:**

- English

### **2.5 Assumptions and Dependencies:**

#### **2.5.1 Commercial Third Parties and External Systems:**

- Payment Gateway.
- Firebase for notification.
- Vercel for front-end deployment.
- Heroku server for back-end deployment.
- Mongo Atlas for database deployments.
- AWS S3 for static file storage
- Unity engine for fitting room
- Google cloud platform vertex AI for automated CI/CD ML pipeline.

## **3. Functional Requirements and Screens**

### **3.1 Customer (Mobile and Web Apps):**

- **Register:**
  - Name
  - Email
  - Password
  - Confirm Password
  - Gender
  - Date of birth
  - Register By Facebook or Google
- **Login:**
  - Email
  - Password
  - Login By Facebook or Google
- **Forget Password**
  - Email
- **Home:**
  - Notifications

- Search Bar
- Advertisement
- Popular items
- Popular brands
- Popular collections
- Top categories
- Items from your style
- Navigation Bar
- **Navigation Bar:**
  - Home
  - Library
  - Fitting Room
  - Profile
- **Library:**
  - Fitting Room (items added to fitting room)
  - Likes (collections, items, brands)
  - For you (collections, items, brands, .....)
- **Profile:**
  - Setting
  - Customer name
  - Customer image
  - Personal data
  - Likes
  - Settings
- **Settings:**
  - About
  - Terms and conditions
  - Help and support
  - FAQ
  - Contact us
  - Payment
  - Log Out
- **Fitting Room:**
  - 3D Model
  - Items added to fitting room
  - Outfits (created by brands or customers)
  - Recommended items
- **item details:**
  - Images
  - Name
  - Rating
  - Reviews
  - Price

- Description
  - Colors
  - Sizes
  - Categories
  - Brand name
  - Section for similar products
  - Add to Fitting Room button
  - Like button
- **Search Bar:**
  - Search by category
  - Search by Brand
  - Search by items

### 3.2 Super Admin Dashboard (Web App):

- **Login:**
  - Email
  - Password
- **Navigation Bar:**
  - Customers
  - Brands
  - Items
  - Notifications
  - Collections
  - Categories
  - Analysis
  - Admins
- **Customers:**
  - Display all Customers
  - Add, Edit and Delete Customers
  - Trace their activities
- **Admins:**
  - Display all admins
  - Add, Edit and Delete admins
  - Trace their activities
- **Brands:**
  - Display all Brands
  - Add, Edit and Delete Brands, and their collections, categories, and items.
  - View all items, collections, and categories
- **Items:**
  - Display all items
  - Add, Edit and Delete items

- **Collections:**
  - Display all collections
  - Add, Edit and Delete collections
- **Categories:**
  - Display all categories
  - Add, Edit and Delete categories
- **Notifications:**
  - Send notifications to all users
- **Analysis:**
  - View analysis for each vendor
  - Print analysis sheet

### 3.3 Brand Dashboard (Web App):

- **Login:**
  - Email
  - Password
- **Navigation Bar:**
  - items
  - Categories
  - Collections
  - Advertisements
- **items:**
  - View all items
  - Add new item
  - Delete item
  - Edit item
- **Collections**
  - View all Collections
  - Add new Collections
  - Delete Collections
  - Edit Collections



## **4. Non-Functional Requirements**

### **4.1 Portability**

The Platform is well suited to be used whether on a mobile phone or a website, especially the Customer App. The Admins' and Brands' Dashboards can be used on a mobile phone web browser but are well suited for wide screens devices

### **4.2 Security**

All System Users must be Authorized for Privileges. A Customer can't acquire the privileges of a Brand or an Admin, and so on. All private data must be secured and unavailable for any other users.

### **4.3 Usability**

The Platform must be well suited for all users and easy use.

### **4.4 Availability**

The Platform must be available 99% of the year.

## **5. Preliminary schedule and Project Management Strategy**

### **5.1 delivery Schedule**

- The System analysis and design must be delivered by the end of October 2022.
- An MVP must be delivered by the end of 2022.

### **5.2 Project Management Strategy:**

- <PAVANE> project must be developed within an agile framework

## **6. Appendices and References**

### **6.1 Fitting Room Requirements specifications**