

Pavane Fitting Room Requirements Specification

<Pavane Project>

Version 1.0

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1. Introduction

1.1 Purpose

This document is written to identify the requirements for the Fitting Room in Pavane Project, it describes the scope of the first version of the project including system users, characteristics, and features.

1.2 Intended Audience

This document is written for Business Owners, Business Analysts, System Developers and Engineers, QA Testers and UI/UX Designers.

1.3 Project Scope

Pavane Fitting Room is a platform that serves **only 2 types of users**:

- a. **Freemium Clients (Free Trial)** who will create a free account on the mobile or web interfaces and enjoy a free trial in the fitting room, they will have a limited access to the features and will only try it for a limited number of times.
- b. **Premium Clients (annual subscription)** who will create a free account on the mobile or web interfaces and pay the annual subscription fee, they will have unlimited access to all features of the fitting room which will be described in more details in the next section of this document.

2. Overall Description

2.1 Product Perspective

Pavane is a new clothing platform idea that contains different features including a fitting room that clients can use to try the outfits offered in the platform through the mobile and web applications.

2.2 Product Features

1. Clients will only be charged for 400 L.E annually after enjoying a free trial.
2. Clients who are on free trial can add items to their outfit list from the mobile/web apps and click **Try in Fitting Room Button** to navigate to the fitting room, they can only try the outfits added to their list for a limited number of times.
3. Clients on premium plan will enjoy the full features of the fitting room including a recommended items and outfits, search and filter outfits from the registered brands and other premium users, can create a custom outfit and share it with others.

2.3 User Classes and Characteristics

Client Characteristics

- Id
- Name
- Email
- Is premium
- Body type
- List of selected items
- List of liked brands
- List of liked items
- List of liked outfits.

Client Privileges

1. Freemium Plan

- Can access the fitting room for a limited number of times (3 times).
- Can only try the items selected in their list.
- Can select the avatar most appropriate to fit their size from our templates.

2. Premium Plan

- Can try the selected items in their list.
 - Can use the fitting room for unlimited number of times.
 - Can select the avatar most appropriate to fit their size from our templates.
 - Can access and filter the outfit section which contains preselected items organized by brands or other premium users.
 - Can like/dislike/add/remove any item/outfit in their list.
 - Can try the selected items in their list.
 - Can access the recommended items and outfits section prepared by the recommendation engine.
 - Can have a custom outfit list and share it with others via a share link.
 - Can set their outfits to public or private (only people with share link can access the outfit).
 - Can choose any outfit, customize it, and save it in their list.
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3. Functional Requirements

1. Access the fitting room
 - 1.1 Authenticate user to check if they are registered in the database.
 - 1.2 Authorize user to check if they are on freemium or premium plan.
 - 1.3 If user is on freemium plan check if they have used their free trial or not, if yes redirect user to subscription screen.
2. Trying The Items
 - 2.1 Access the selected items of user and body type and if no configuration is stored load default configurations.
 - 2.2 When user clicks on an item, dress the avatar to fit the selected item.
3. Outfits
 - 3.1 User can create a custom outfit by pairing a selected items and save it to their outfit list.
 - 3.2 Can select and edit outfits in their list and save it or override it.
 - 3.3 Can access outfits grouped by brands or other users, override it, and save it in their list.
 - 3.4 Can generate a share link for their custom outfits.
4. Recommendations
 - 4.1 Can access all items and outfits recommendations.
 - 4.2 Can add them to their outfit list and try them on avatar.
5. Likes
 - 5.1 Users can like any item or outfit.

4. Non-Functional Requirements

1. Security:

Private data should be secured and be accessible only for authenticated and authorized user.

Private data include (avatar, private outfits).

2. Portability:

The fitting room should work properly for web and mobile users for the following operating systems:

- Android 9 or later.
- iOS 8 or later.
- Google Chrome, Microsoft Edge, Firefox, Opera and Safari Browsers.
- Should adapt to all screen sizes.

3. Reliability:

Mean time between failure (MTBF) = 5 minutes.

4. Availability:

System should be available 99.9% in the year.

5. Usability:

System should be easily used by any user without training or tutorials, any action should be with the least number of clicks and the minimum number of screens.

5. Design and Implementation Constraints

1. 3D and Environment Design: Blender and Unity.
2. Fitting Room Functionality: Unity & C#.
3. Node.js Web Server.
4. MongoDB Server.