**FitTipz Project Plan Draft**

Epsilon

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# **Introduction (1)**

## **Scope and purpose of document (LT)**

Going through this document, you will see our entire plan for FitTipz and how group Epsilon will work together and collaborate to reach the final product by the end of the Spring 2025 semester. This will run through the System Scope: the purpose of this product, the problems it solves, the business opportunities/personal benefits, and a detailed description of each function. Through a diagram, we will visually represent the system's context in its entities with inputs and outputs. Also attached is a project libre file of the work schedule: what tasks need to be completed on what days and in the order of how we will fulfill each task. The document also details how we will organize files and submissions, as well as the applications we will use for tracking and controlling the group's workflow.

FitTipz is a tool for managing wardrobes that tracks and arranges user outfit data. It is a virtual wardrobe for any occasion and lets consumers view clothes as 3D models before purchasing. The application aims to make it easier for users to identify and buy things that meet their needs. Sometimes, you can alternate between your present clothes and what you want to purchase.

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# **System Scope**

## **Problem/Opportunity Description (2)**

Has anyone ever been stuck on what to wear to an event or venue? The answer is most definitely. FitTipz’s primary solution is to assist users with their day-to-day outfit struggles. Now, to some, this can’t be a complete solution; however, it at least points them in the right direction for the perfect outfit. Typically, going shopping online can be challenging since you are not getting a detailed output for your specific situation. With FitTipz, you will receive the best possible feedback with our advanced AI technology.

If you are unsure whether the outfit given is the best, we have a perfect solution. The answer is VisualFitz. It gives you multi-angle shots of yourself in the clothing. Using the posing directions, we can map the clothing on your lower and upper bodies using pre-determined 3-D models and juncture points. Through these aspects, we aim to achieve complete satisfaction from our users.

## **Anticipated Business/Personal Benefits (3)**

As a team, we strive to provide users with a streamlined, innovative shopping experience through detailed search engines and AI imaging. This application will help users find particular articles of clothing by defining brand, size, style, and price point. An additional pronounced feature is VisualFitz, which allows users to upload pictures of themselves to preview how they would look wearing the specified item. The app will also be able to adapt to repeat users by recommending new clothes similar to their previous purchases, granting each user a more personalized experience. As for our incentive, we will be able to extrapolate data from our users by tracking the items they purchase, as well as using the images uploaded to our servers. We will be able to sell this information to advertisers. Find common purchasing trends among specific demographics, determine what clothing styles are commonly purchased together, etc.

## **System Capabilities (4)**

Advanced Search - A search engine that can take specific parameters to find exactly what you want. It will filter by gender, size, brand, quality, and price, and if no items meet the specific description, it will find items that are close to the specifications. Once an item is found and selected, users will be able to upload images of themself to try on the garment virtually. Once satisfied with the product, they will be transferred to the proper store page to purchase it.

Fitz Storage- Fitz Storage can catalog past purchases and store them in a virtual closet.

This is a way to track what users have purchased, intended for use by admins and users alike.

In the back end, data stored for item visualization will be paired with data available outside the app to produce better 3D renderings of items between users.

[ will literally display items previously purchased

VisualFitz - VisualFitz is what takes user photos and puts them in whatever outfit they desire. The program asks for three angles with their head and shoulders in clear visibility. One from the front, side, and one from the back. Once uploaded successfully, users can access this feature whenever they wish to try on a piece of clothing. The user can alter and remove these images at any time. In addition, those under the age of 13 will have this feature restricted.

Budget function - The system asks the user for their budget range, and if they are not sure of their exact budget, they can simply respond to the system with low, medium, or high, and they will receive a low range, such as $0 - $50, medium range $50 - $150, and high range $150 - $400, or no budget which would be a zero or greater range. In the application, we will place a budget number that will change depending on if the user decides to add that item to their cart, which is where all of the item values will be added up to a total. The user can delete or add items to that cart.

TipzTips- TipzTips is a feature that tracks customers' previous purchases to recommend new outfits. It tracks attributes such as brands they prefer, sizes they tend to buy, and the style of clothing they purchase. This provides useful data and allows the user to have a more streamlined shopping experience. TipzTips will only improve the more users shop using FitTipz, as it gains more data and can more accurately predict what they wish to purchase.

[recommended on your past searches & history]

[ like when you go on amazon, there will be previous purchases]

## **System Context (5)**

*Submit the System Context file as a separate file from your plan document*

# **Schedule (6)**

*Submit the schedule file as a separate file from your plan document.*

# **Staff Organization (7)**Our team plans to be organized through a GitHub repository when submitting the final product. Lucas Trog will do any submission. Therefore, all required files and documents for the submission will be emailed to him.

# **Tracking and control mechanisms (CC)**

The team will use Google Drive and Discord to track changes to this document and protocols/techniques used throughout the project.

Google Drive will act as a team collaboration hub, allowing the team to review all the information and data they contribute continuously. Additionally, this stationary workstation, which all project members can reference and access, will help keep all the work in one place.

A one-hour weekly meeting should be sufficient to assign and distribute work for the team. Any work completed then will be submitted through Discord for review across the team before submission.

Should significant changes occur or attention be required, any team member shall communicate through the instant message system in Discord. Additionally, to be more flexible with scheduling and time management, Discord will be used to document changes and reviews needed and administer voice communications so that the team can work in real-time.

Any edits needed to the project shall be added with comments onto the drive and continuously worked on through Discord (IM) and Git Hub [for submissions].

**Completed tasks will be posted and shown through Discord messages, as well as on Google Drive, using comments for *feedback* *and corrections.***