



# Team Shop

A smarter way to shop

# Problem Statement

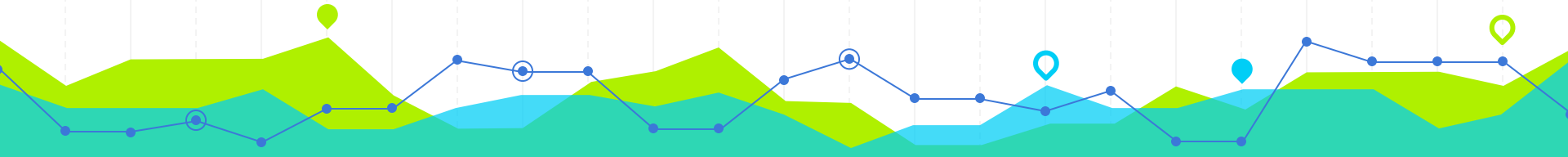
In modern times, trends are always changing and new brands are made and gain popularity. On top of this, customers are constantly on the lookout for a good deal and try to find clothes that are affordable and also good quality. This, however, can be extremely time-consuming and difficult to look for.

Often times, customers are unaware of all their options and end up sacrificing either money or quality because they can't find what they're are looking for. Adding to the dilemma, companies everywhere create knock-offs or sell counterfeit products. With all these issues that cause a waste of time and money, finding desired clothes at the desired price has become a challenging hurdle for the everyday shopper.



# Proposed Solution

Our application streamlines online shopping by using Artificial Intelligence and Machine Learning to offer personalized clothing recommendations and bargain deals. It centralizes shopping into one platform, while analyzing user preferences and past purchases to suggest the best fit, material, and brand. The app also includes customizable features, like review and price filters, and tailors the shopping experience to individual needs while simplifying and enhancing the user's shopping journey.



# Requirements Use Case 1: Shopping for a Cheap Blue Top

## 1. Preconditions

User must have already created an account and put in information requested such as email and address.

## 2. Main Flow

User will put in preferences for the clothing article they are looking for [S1]. AI will provide clothing options available that fit the set preferences. [S2]. User chooses an option they like and buys it on the site through the app [S3].

## 3. Subflows

[S1] User puts in preference of color (blue), type of clothing (top), and price range (under \$20)

[S2] App will return clothes that fit preferences based on previous choices as well. User will choose a top to their liking.

[S3] User will be taken to the site selling the top and will be able to order the top to their address and and AI will take note of the user's choice when providing future recommendations.

## 4. Alternative Flows

[E1] No options are available that fit the set preferences

[E2] User doesn't want any of the available options and exits app



# Requirements Use Case 2: Getting Clothing Recommendations

## 1. Preconditions:

User must have a registered email and username with personal information set up, including: size, style, brand, weight

## 2. Main Flow:

User logs into application and looks to see recommendations on main page [S1]. The website's algorithm finds the best matching clothing articles for the user [S2]. The user views the said clothing articles[S3]. The user purchases items that they liked [S4].

## 3. Subflow:

User logs into the app, and sets up their personal information, including their weight, height, and other measurements.[S1] The algorithm then begins searching through the clothing websites' catalogue, looking for closely related items to the users' history and personal information [S2]. The user then looks at the displayed items that the algorithm selected. [S3]. User proceeds to select items that they like and purchases the said items[S4].

## 4. Alternative Flows:

[E1] User refreshes the page to get new suggestions on the page.

[E2] User leaves the app/page.

