| V-Closet: Requirements  By: Scott Lam, Leo Ras, Thomas Simmons |
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## Project Name

A clothing website to show off your style and functions as a virtual wardrobe. We took virtual and closet and put it together into one to create the name **V-Closet**.

## Team Member Names

Thomas Simmons, Scott Lam, Leo Ras

## Abstract

As technology expands with no signs of decline, we need to revolutionize something innovative in the market. People often struggle to find the perfect outfit they want to wear or ideas. Conceivably, they want to look for new styles to customize themselves but do not want to spend the money to try it. We developed the perfect solution by creating an online virtual wardrobe called V-Closet. V-Closet aims to solve these issues by allowing users to upload clothes to a virtual wardrobe, receive recommendations on what to wear based on the weather, and trade and sell articles of clothing with other users.

Users will be able to create an account and upload pictures of their clothing items and categorize them. Any clothing items may include pants, shirts, hats, and other accessories. The website will receive up-to-date weather information and provide recommendations based on it. The website will be able to prepare users for rain, cold and hot weather, and other climate events. Finally, users will be able to use the website as a marketplace as V-Closet will have buying, selling, and trading capabilities.

## Tools & Technologies

* Google Chrome
* Windows OS
* Visual Studio Code
* HTML/CSS/JS
* GitHub and Git
* weather.gov API
* React
* Firebase
* Firestore
* Discord
* Google Drive
* Figma

## Requirements List

#### Landing Page (Not Logged in)

* 1. The landing page contains a large V-Closet graphic and a short description.
  2. The landing page will have a “Sign Up” button.
     1. (Directs to Create Account Page)
  3. The landing page will have a “Login” button.
     1. (Directs to Login Page)

#### Login Page

* 1. The login page will contain a section for the user to login.
     1. The user login section will have a label “Username” followed by a text field.
     2. The user login section will have a label “Password” followed by a text field.
        1. The password will be hidden.
  2. The user login section will have a “Login” button.
  3. If the user login attempt is unsuccessful, a message will be displayed.
  4. If the user login attempt is successful, they will be redirected to the Home page.
  5. The page will have a dark/light button to toggle the theme.

#### Sign Up Page

* 1. The Create Account page will have two text fields for the user to input a new username and password.
  2. The page will have a dark/light button to toggle the theme.
     1. The password will need to meet certain requirements to be valid.
        1. Password must be 8 characters long.
        2. Password must contain one special character (!, @, #... etc).
        3. Password must contain one uppercase character.
        4. Password must contain one lowercase character.
        5. Password must contain one numeric character (0-9).
        6. If the password meets the conditions, check marks are added to each requirement met and are able to bypass the login pass.
     2. The username will need to be available to be used.
        1. Username will display not available if the username is already used and cannot create the account.
        2. Username will display a checkmark if it is available.
        3. If the username and password pass the criteria, the user can sign up for the new account.
  3. There will be a “Sign Up” button that directs the user to the Login Page if the username and password meet the requirements.
     1. A new record will be created in the database for the new user.

#### Home Page

* 1. The Home page will display the current outfit recommendation.
     1. The outfit recommendation will consist of the following: headwear, outerwear, sweater, shirt, pants, shoes.
     2. Clicking an image will take the user to the appropriate area of the wardrobe page.
  2. The Home page will display the current weather.
     1. The weather information will come from www.weather.gov.
  3. The Home page will contain a dark/light button to toggle the theme.

#### Wardrobe Page

* 1. This page will display a gallery of the user’s clothing pre-filtered by type.
     1. There will be a side-view panel for the user to view their clothes by the type of clothing.
        1. The option will contain outerwear.
        2. The option will contain shirts.
        3. The option will contain pants.
        4. The option will contain headwear.
        5. The option will contain sweaters.
        6. The option will contain shoes.
     2. The user will be able to filter clothing by color.
  2. Create Item Button that prompts the user with a form to create a new item of clothing.
     1. There will be a file upload field for the user to submit a photo of the clothing item.
        1. The file must be in a jpg or png format.
     2. The user will be able to choose what type of clothing will be uploaded.
     3. The user will be able to enter a description of the clothing.
     4. There will be a submit button that creates a new record in the database with the relevant information.
        1. The user will be prompted to upload another article of clothing or return to the wardrobe page.
  3. Remove Clothing Button next to clothing item that directs to Delete Photo Page
     1. Deletes record of the relevant article of clothing from the database.
     2. Automatically returns to Wardrobe Page.
  4. Sell Item Button will add the clothing item to the List Item Page.
     1. User will set a price for the listing

#### Settings Page

* 1. The settings page will display a navigation bar to choose from the following options:
     1. User Account Settings
        1. Users can update the password.
        2. There will be a red button that says “NUKE ACCOUNT”.
           1. Users will be prompted if they want to delete their user account.

If the user clicks yes, the account will be deleted.

If the user clicks no, the account will not be deleted and the prompt closes.

* + 1. Display Settings
       1. Two themes to choose from with two radio buttons:
          1. Light Mode that changes the website to Light Mode.
          2. Dark Mode that changes the website to Dark Mode.

#### About Page

* 1. The page will have a left-side view navigation pane for the About Us, Our Mission, and Contact Us pages.
     1. The About Us page will display information about the history of V-Closet.
     2. The Our Mission page will display the goals and mission of V-Closet.
     3. The Contact page will display contact information on how to reach V-Closet.
  2. The page will have a home icon to return to the Home Page.
  3. The page will have a dark/light button to toggle the theme.

#### Market Page

* 1. The market page will have a navigation bar at the top that displays a recommended tab, favorites tab, and my listings; it will also contain sorting filters, and a list item button.
     1. The recommended tab will have a grid of recommended items for sale.
     2. The favorites tab will have a grid of previously favorited clothing items for sale.
     3. The my listings tab will show all the current listings of the user.
        1. There will be a button under each listing that says “REMOVE” which will remove the listing.
     4. The user will have access to the following sorting filters:
        1. Price: High to Low
        2. Price: Low to High
        3. Most Recent
        4. Categories
           1. User will be presented with a drop down list of all the available categories of clothings
  2. The market page will have a grid of clothing items listed for sale by other users.
     1. Users will be told that V-Closet does not take any responsibility for misrepresentation of items or other problems that may occur.
  3. Users will be able to click on a listing to see other information about the item.
     1. Item’s seller, category, price, degree of wear, and seller’s contact information will be listed to the right of the item.
     2. A description could be included by the seller that will appear below the previous information.
     3. A heart button on the left will be available to favorite the item so that the user may look at it either.
  4. The page will have a home icon to return to the Home Page.
  5. The page will have a dark/light button to toggle the theme.

#### Add Item Page

* 1. The page will have a home icon to return to the Home Page.
  2. The page will have a dark/light button to toggle the theme.
  3. User will be presented with a form to give information about the article of clothing
     1. User will set the degree of wear on the clothing
        1. Drop down of (New, Slightly Worn, Well Worn, Worn and Torn)
     2. User can write a description about the item

## Updated Timeline

| **23 Jan - 27 Jan** | **All:** Researching tools and gathering information for the project plan and responsibilities of each team member. |
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| **30 Jan - 3 Feb** | **All:** Setting up tools for development, creating a GitHub repository for the project, and resolving any problems before development. |
| **6 Feb - 10 Feb** | **Scott:** Learning React and sketching/designing website ideas.  **Leo:** Contributing website design ideas.  **Thomas:** Researching Firebase and setting up a server. Testing image uploading to Firebase. |
| **13 Feb - 17 Feb** | **Scott:** Designing and finalizing the Landing page.  **Leo:** Contributing website design ideas.  **Thomas:** Researching the realtime database. |
| **20 Feb - 24 Feb** | **Scott:** Designing the Login Page.  **Leo:** Website ideas and implement login form system.  **Thomas:** Designing the add item page. |
| **27 Feb - 3 Mar** | **Scott:** Designing the Sign Up Page and assisting with password requirements if needed.  **Leo:** Web ideas and implementing login system (again) and password requirements.  **Thomas:** Designing the delete item page. |
| **6 Mar - 10 Mar** | **Scott:** Designing the Home Page and assisting with weather API if needed.  **Leo:** Web ideas and developing a system for an outfit recommendation.  **Thomas:**Testing delete and add item pages and begin implementing weather API. |
| **13 Mar - 17 Mar** | **Scott:** Designing the Wardrobe Page.  **Leo:** Web ideas and finalizing system for the outfit recommendation.  **Thomas:** Designing the List item page. |
| **20 Mar - 24 Mar** | **Scott:** Developing Wardrobe Page.  **Leo:** Develop a sorting system for clothes via color and category system for types of clothing.  **Thomas:** Designing the remove listing function. |
| **27 Mar - 31 Mar** | **Scott:** Finishing up Wardrobe Page.  **Leo:** Finishing up sorting system and category system.  **Thomas:** Design the market page and finish implementing weather API. |
| **3 Apr - 7 Apr** | **Scott:** Designing and finalizing the Settings Page  **Leo:** Web ideas and implementing the delete account feature  **Thomas:** Designing the market page. |
| **10 Apr - 14 Apr** | **Scott:** Developing and finalizing About Page.  **Leo:** Web ideas and work optional features if there is time.  **Thomas:** Finalize market page. |
| **17 Apr - 21 Apr** | **Scott:** Finalizing touches for website pages/ assisting Leo & Thomas if needed.  **Leo:** Testing the features (login system, account system, etc).  **Thomas:** Testing on Firebase emulator. |
| **24 Apr - 28 Apr** | **Scott:** User testing and documenting.  **Leo:** Finalizing touches to features and documenting.  **Thomas:** Send all files to Firestore and host them. |
| **1 May - 4 May** | **All:** Finalize, review, document, and present the project. |

**\* Subject to Change**