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INST331

30 June 2024

Part 1 Overview

Introduction

The name of our app is My Wardrobe, a unique planner that helps users plan their outfits for the day instead of their daily tasks. The main purpose of My Wardrobe is to allow users to plan their outfits based on the clothing in their closet and receive suggestions for new clothing purchases based on upcoming events. This helps users focus on their daily routine, reduce decision fatigue and anxiety, and enhance their overall style. The stakeholders are fashion enthusiasts, busy professionals, parents, college students, social media influencers, and retailers and fashion brands. Some special features are the style planner where users can plan their outfits for various events. Users can share planned outfits with friends and family. They can also explore and users can view other users' planned styles to find clothing to buy that matches their style.

Scope

The scope of our app will include users who need to plan multiple outfits in a day due to their busy schedules. Users with extensive wardrobes looking to maximize the use of their existing clothes. Individuals looking to learn more about their personal style. Parents who plan their children's outfits. American students involved in sports and clubs. Professionals, teenagers,

and college students who need to plan their outfits for different events. The scope of our app will exclude users who do not go out often or have non-busy days, users with minimal clothing options. Users who cannot afford to frequently branch out their style with new, trendy clothing will also most likely be excluded, also people who work from home and rarely leave the house.

User Types

User Population	People who lead busy and stressful lives, needing to plan multiple outfits in a day. Parents, college students, and social media influencers.
Persona	Meet Sarah, a 21-year-old college student. On a busy Friday, she has gym sessions, a morning class, an early afternoon work shift, a job/internship interview, and a late-night study session. Planning outfits ahead of time can reduce her stress and ensure she is dressed appropriately for each event.
Irregular Users	Travelers may only use the app to style outfits for trips. People who occasionally attend events could use the app for special events like graduation, weddings, or Halloween.
User Types	Users who plan their outfits for various events using the calendar feature. Users who browse the Explore page for outfit inspiration and new styles. Users who share their planned outfits with friends and family. Users who customize their profiles and boards to reflect their personal style.

Tasks by User Type

Outfit Planners	Explorers
<ul style="list-style-type: none">● Will be able to plan outfits for specific events.<ul style="list-style-type: none">○ Daily planning for individual events.○ Weekly overview for multiple events.○ Customize outfits for different occasions.	<ul style="list-style-type: none">● Will be able to browse the explore page for outfit inspiration.<ul style="list-style-type: none">○ Save favorite styles to boards.○ Discover new trends and styles.○ Find and purchase new clothing items

Part 2: Your App in Context

MarketSpace:

The market for outfit planning apps is competitive, with several apps offering similar functionalities. Here are three competitors:

- **Fits:**

- **What it is doing well:**
 - Excellent GUI design.
 - Allows users to take photos of their clothes and matches them to an online database.
- **What it is not doing well:**
 - Expensive subscription model at \$29.99 per month.

- **My Wardrobe:**

- **What it is doing well:**
 - Good organization and sharing capabilities.
- **What it is not doing well:**
 - Charges a \$1.99 fee for each outfit plan, which can add up quickly.

- **Pureple:**

- **What it is doing well:**
 - Beautiful and modern GUI.
 - Provides a social media platform for sharing outfit ideas.
- **What it is not doing well:**

- Focuses more on creativity rather than practical outfit planning for daily use.

How is our app different from competitors: My Wardrobe stands out by being free to use, supported by developer donations and ads. This makes it accessible to a broader audience. The Explore feature allows users to view and share outfits planned by others, providing a community-driven aspect. Additionally, the app integrates with boutiques and clothing stores, allowing them to market their outfits for free, with optional paid promotions for increased visibility.

Why are we interested in our app: We are interested in developing My Wardrobe because it addresses the need for a free, comprehensive outfit planning tool that combines practicality with social and commercial elements. This app can significantly ease the stress of planning outfits, for busy individuals, and gives a platform for users to explore and share fashion ideas.

GETTING DATA AND INTEGRATING WITH OTHER SYSTEMS

Data Population:

- **User Data:**
 - Users fill out forms in the app to create their outfit plans.
 - Users can upload photos of their clothes, which will be matched to online clothing databases.
- **Staff Data:**
 - App staff will create and manage data for new features, outfits, and collections.

- **Harvesting Data:**

- **Google Vision API:** For image recognition and categorization of uploaded clothing photos.
- **ShopStyle API:** For accessing a vast database of fashion items and integrating with online stores.
- **Instagram Graph API:** For integrating user content and fashion trends.
- **Firebase:** For cloud-based database management.
- **MongoDB or AWS DynamoDB:** For efficient storage and manipulation of user data.

Integration with Other Systems:

- **Instagram, Pinterest:**

- Pull inspiration boards and fashion ideas.
- Share user-generated content and trends.

- **Calendar Apps:**

- Allow users to sync outfit plans with personal calendars.

- **Camera Apps:**

- Enable users to upload photos of their clothes for outfit planning.

SOCIAL IMPLICATIONS

Risks and Benefits: The existence of My Wardrobe can greatly benefit individuals by reducing the stress associated with daily outfit planning, promoting sustainable fashion practices by

encouraging the use of existing clothing, and providing a community for fashion enthusiasts.

However, there are risks related to privacy and data security, as well as the potential for over-commercialization through ads.

Compliance with Laws and Policies: My Wardrobe will adhere to relevant privacy laws like GDPR and CCPA to make sure that user data is handled securely and transparently. GDPR mandates that companies must protect the personal data and privacy of EU citizens, focusing on user consent and data security and CCPA gives California residents the right to know what personal data is collected, to delete it, and to opt-out of its sale. Thus, My Wardrobe will ensure that user data is collected, processed, and stored with the high security and privacy to respect the rights of users and maintain transparency in data handling practices. The app will also comply with copyright laws for original content and follow policies against hate speech and harassment. Users will agree to terms and conditions that follow acceptable use.

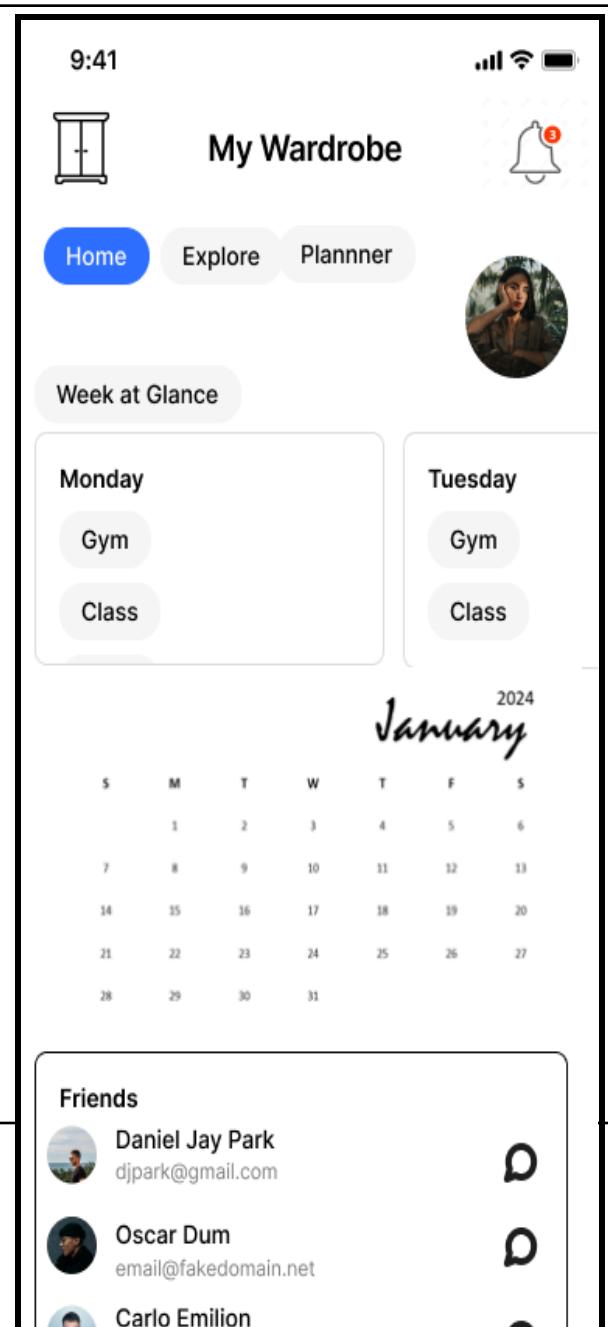
Part 3: Prototype Screen Mockup

PROTOTYPE 1

What is it?: This is the home page of my wardrobe app. Upon opening the app, the user is greeted with a "Week at a Glance," buttons for navigation, a calendar, and friends.

App Metadata Description:

- **Profile:** Displays the user's profile image. The user can tap it to view their profile page status.
- **Bell:** Shows notifications for likes, comments, and messages from other users on my wardrobe. A red indicator signifies the user has three messages.
- **Week at a Glance:** Takes the user to the "Week at a Glance" page, which displays the week's events and the outfits planned for each event.
- **Calendar:** Serves as app decor but helps users in the planning process.
- **Friends:** Allows users to view their friends' profiles and share messages about style or event needs.



Bubbles:

- **Home (blue):** Indicates the user is on the home page, filled in blue to make the user aware they are on the home page.
- **Explore (gray):** Indicates the Explore page is not open. The Explore page displays other users' outfits, sparking user curiosity.
- **Planner:** A planner book for outfits

PROTOTYPE 2

What is it?

This is the homepage of the app, and this is the user profile. Users can access this page by pressing their profile image on the homepage.

App Metadata Description:

- **Box with plus sign:** Users can upload a post from their digital closet of outfits they created in My Wardrobe.
- **Black ribbon:** This page contains all the saved posts the user made on the explore page.
- **Plus circle in profile:** Allows users to edit their profile picture.
- **Paper & pencil:** Users can edit posts, delete posts, or change the name of a post. They can also change their username by pressing the pencil and paper icon.
- **Boxes:** These represent the number of posts, followers, and following. Users can tap on followers and following to view who they are.



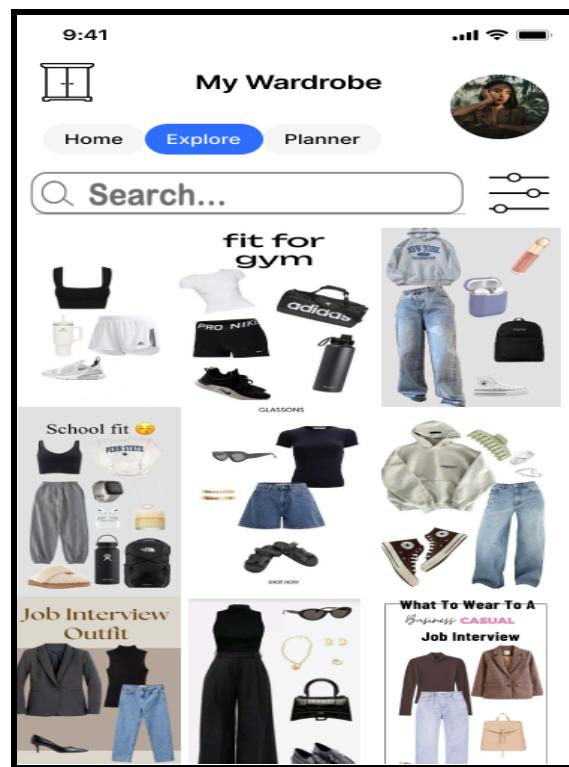
PROTOTYPE 3

What is it? :

This is the explore page of our app, similar to the Instagram explore page but focused on outfits. Users share their outfits here to inspire other users' styles.

App Metadata Description:

- **Search bar:** Search for outfits and apply filters.
- **Lines bubble:** Turns on the app filter for smart outfit searches.
- **Outfits:** These are the outfits the user scrolls through.



PROTOTYPE 4

What is it? Once a user presses the search bar, the filters will pop up as well. Filters can be hidden when the user presses the strings and bubbles.

App Metadata Description:

- **Events and style filter:** There are various types of events users attend and styles users prefer to wear to these events. With a couple of presses, these can be filtered in and out.

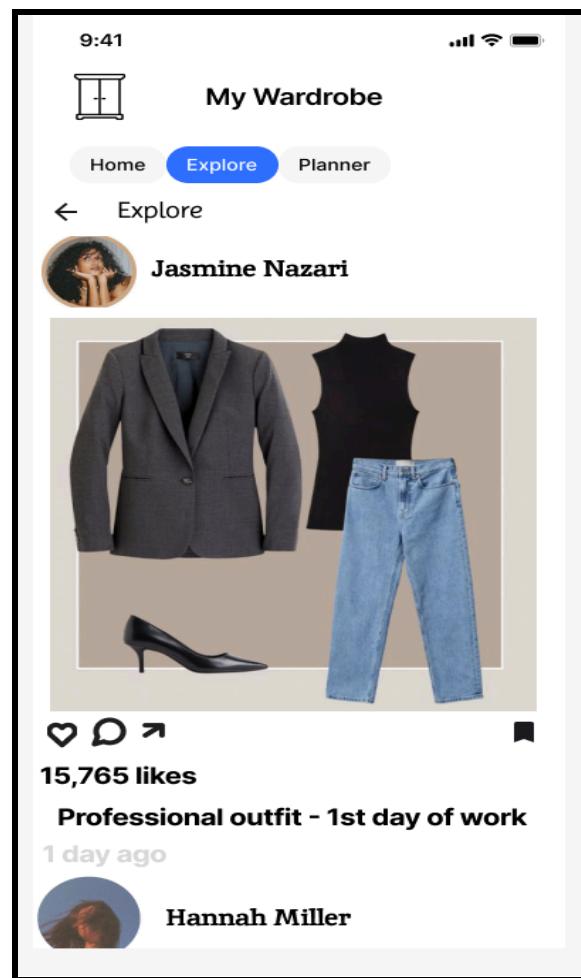


PROTOTYPE 5

What is it? A user activity on the explore page. This activity occurs when a user taps on one of the posts from the explore page.

App Metadata Description:

- **Post:** Displays the outfit.
- **Profile:** Shows who made the outfit.
- **Post information:** Displays the number of likes, age of the post, outfit type, and other details about the outfit.
- **Heart:** Users can like the post.
- **Message bubble:** Comments section where users can read comments or post their own.
- **Arrow pointing:** Users can send the post to friends.
- **Ribbon:** Users can save the post to their saved list.
- **Other profile:** Users can scroll down and see more outfits similar to Jasmine Nazari, but from different authors and posts.



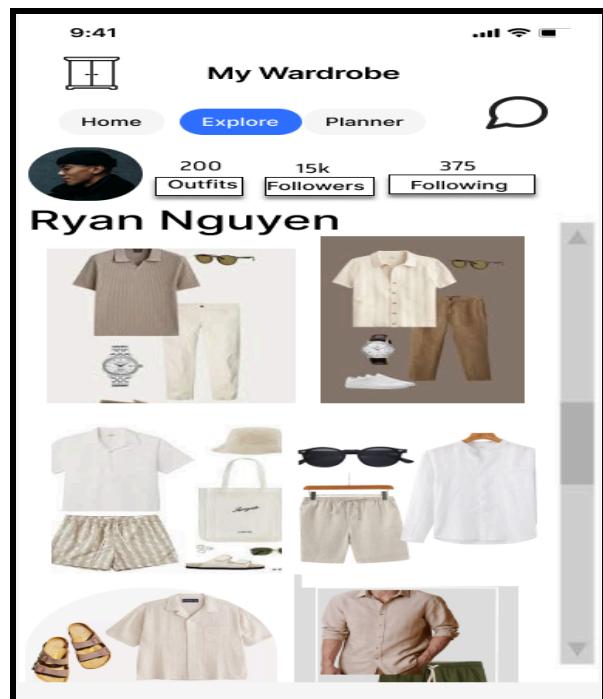
PROTOTYPE 6

What is it?

This is the page where a user views other user profiles. Users can access this page by tapping the profile picture from their friend list on the homepage or by tapping the profile image of a user who made a post on the explore page of the app.

App Metadata Description:

- **Profile little boxes:** These boxes show the number of posts, followers, and following. Users can tap on followers and following to view who they are.



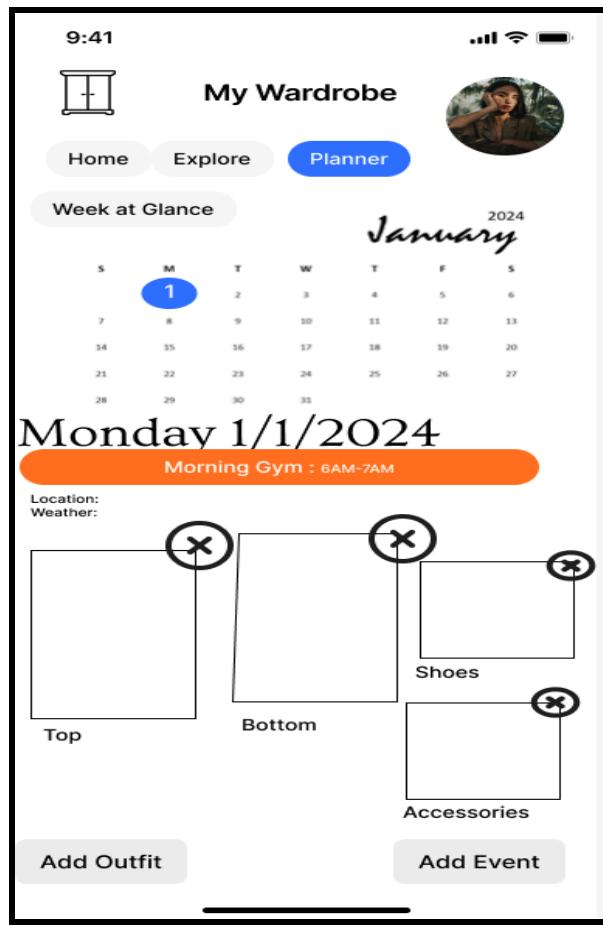
PROTOTYPE 7

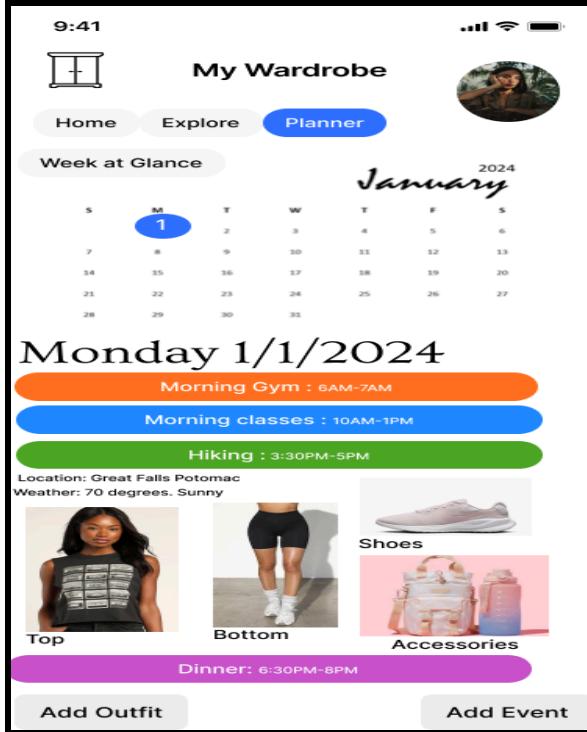
What is it?

This is the planner page of the app. Here, users can plan their outfits based on their style needs.

App Metadata Description:

- **Week at a Glance:** This button directs users to the week-at-a-glance page.
- **Calendar:** Users can tap to see their Monday events and outfit planner.
- **Day blue bubble:** When users press a day in the calendar, the "Add Outfit" and "Add Event" buttons pop up, allowing users to add an outfit or an event.
 - Pressing "Add Event" creates a "morning gym" bubble. Users can choose a color (e.g., orange) and type



<p>"morning gym" to create the event.</p> <p>*also pops up information on time, weather, and location.</p> <ul style="list-style-type: none"> ○ Pressing "Add Outfit" brings up empty boxes to build an outfit. Users can press "X" to remove an item of clothing if it is not needed. For example, if a user is wearing a dress, they do not need a bottom piece. ○ Users can also copy and paste the boxes. For example, if a user needs more top boxes because they have multiple tops to wear, they can copy and paste the boxes. 	
<h3>PROTOTYPE 8</h3> <p><u>What is it?</u></p> <p>This is the planner page that appears when a user has completed creating their outfit and events for the day.</p> <p><u>App Metadata Description:</u></p> <ul style="list-style-type: none"> ● Calendar: Shows the days when users have added events and outfits. ● Event Bubble: These are events that users plan to attend. If a user taps an event and an outfit has already been created, it will appear similar to Prototype 5, where a user pressed "hiking" and the hiking outfit popped up. 	

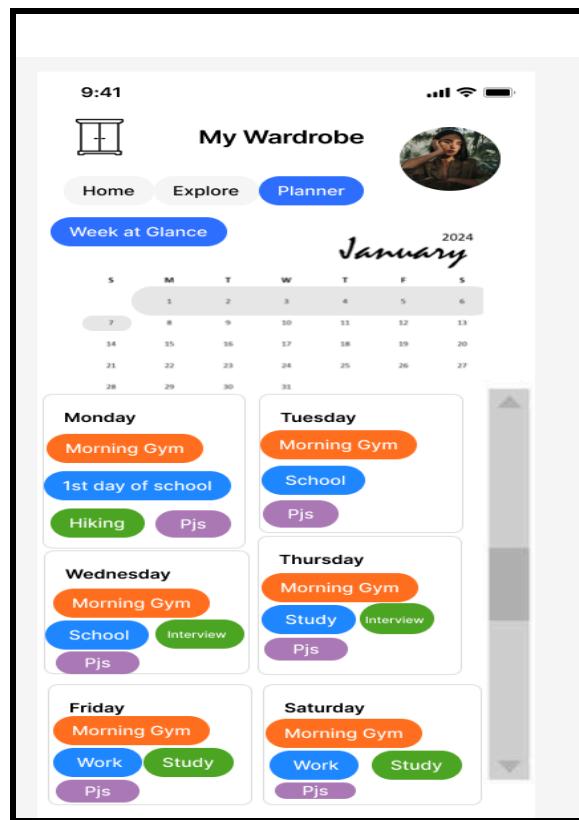
PROTOTYPE 9

What is it?

This is the "Week at a Glance" feature, which is part of the planner page of the app. This feature allows users to view their entire week and the events they plan on attending each day.

App Metadata Description:

- **Day boxes:** Users can tap on each day, which will take them from the "Week at a Glance" page to the homepage of the planner. Here, users can view and edit the outfit they plan to wear to the event.
- **Grey bubble calendar:** It is set to the current week by default, but users can edit it themselves.



Full glance of part 3:

The screenshots show a mobile application interface for 'My Wardrobe' across four different screens:

- Home Screen:** Shows a calendar for January 2024. Under 'Monday' and 'Tuesday', there are 'Gym' and 'Class' buttons. A 'Friends' section lists Daniel Jay Park, Oscar Dum, Carlo Emilion, and Mark Rojas with their email addresses.
- Explore Screen:** Displays various outfit suggestions: 'fit for gym', 'School fit 😊', 'Job Interview Outfit', and 'What To Wear To A Business CASUAL Job Interview'. Each suggestion includes a grid of items like shirts, pants, shoes, and accessories.
- Planner Screen:** An 'Event' section lists categories like 'Adult Entertainment Recreation', 'All Ages Recreation', 'Attending as a Guest', 'Athletic recreation (gym,hiking,biking,etc.)', 'Water Sports', 'Formal Dinning', 'Formal work wear', and 'Style' categories such as 'Comfortable', 'Athleisure', 'Luxury', 'Girly', 'Islamic Modest', 'Formal', 'Street wear', 'Elegant', 'Earthy', 'Bohemian', 'Vintage', 'Minimalist', 'Preppy', 'Gothic', 'Modest', 'Skate Fashion', and 'Orthodox Jew/Pentecostals Christian Modest'.
- Profile Screen:** Shows a weekly calendar for January 2024. It highlights 'Morning Gym : 6AM-7AM', 'Morning classes : 10AM-1PM', 'Hiking : 3:30PM-5PM', and 'Dinner: 6:30PM-8PM'. It also shows outfit suggestions for 'Top', 'Bottom', and 'Accessories'.

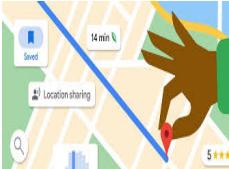
The screenshots show a mobile application interface for 'My Wardrobe' featuring user profiles and outfit suggestions:

- Home Screen:** Shows a calendar for January 2024. It highlights 'Morning Gym : 6AM-7AM' and 'Weather: 70 degrees. Sunny'. Below the calendar, there are sections for 'Top', 'Bottom', and 'Accessories' with 'X' icons indicating they are empty or removed.
- Explore Screen:** Shows a weekly calendar for January 2024 with specific activities listed for each day: 'Morning Gym', '1st day of school', 'Hiking', 'Pjs', 'School', 'Interview', 'Study', 'Pjs', 'Morning Gym', 'School', 'Interview', 'Pjs', 'Morning Gym', 'School', 'Interview', 'Pjs', 'Morning Gym', 'Work', 'Study', 'Pjs'.
- Profile Screen:** Shows Ryan Nguyen's profile with 200 Outfits, 15k Followers, and 375 Following. It displays a grid of outfit suggestions for 'Top', 'Bottom', and 'Accessories'.
- Profile Screen:** Shows Jasmine Nazari's profile with 75 Outfits, 20k Followers, and 457 Following. It displays a grid of outfit suggestions for 'Top', 'Bottom', and 'Accessories'.

Part 4: Metadata Scheme

Component 1: Summary Item Type Tables

Item Events: Event

Name of Property	Description of property	Example Value
Name of event 	Name of event is the name of the event a user is planning on protaking in for the week. This data is a string.	<ul style="list-style-type: none"> - Going to the gym - 1st day of school - Hiking
Time 	The time of the event the person is planning on going too and leaving too. This is a string. This can be helpful in the planning process for users to plan out there outfits for the day.	<ul style="list-style-type: none"> - 6AM-7AM - 3:30PM - 5PM - 9PM-11PM
Date 	This is the date of the event. This is also a String. This can be helpful in the planning process for users to plan out there outfits for the day, so user won't put in the wrong date or various people hate wearing the same outfit everyday which this layout can help prevent that from happening.	<ul style="list-style-type: none"> - August 26 - July 5 - October 8
Location 	The location of the event the person likes to go too. This is a String. This can be helpful in the planning process for users, so users can know where it is and think of aspects of location for attire.	<ul style="list-style-type: none"> - Eppley Recreation Center - College of Information Studies building

		<ul style="list-style-type: none"> - Great Falls Potomac
Weather 	This is the weather of the event. String. THis is very helpful in the planning process for outfit because judging by the temperature there certina clothes which shouldn't be worn in certain temperature	<ul style="list-style-type: none"> - sunny : 80 - Raining: 80 - sunny : 90

Item Outfit:

Name of Property	Description of property	Example Value
Name of outfit	This is the name of an outfit, examples are gym outfit, casual outfit, formal outfit, and etc. This is a string.	<ul style="list-style-type: none"> - Gym outfit - Casual - Hiking gear
Event	The event the user is going to wear the outfit in. A string.	<ul style="list-style-type: none"> - Going to the gym - 1st day of school - Hiking
Top	The top of the outfit. A file or a photo file.	<ul style="list-style-type: none"> -  -  - 
Bottom	The bottom of the outfit. A file or a photo file.	<ul style="list-style-type: none"> -  - 

		
Shoes	The shoes of the outfit. A file or a photo file.	  
Accessories	The shoes of the outfit. A file or a photo file.	  

Component 2: Detailed Property Information Tables

Property Name		Event
Item Type		Outfit
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>String</i>
	Controlled Vocabulary	<ul style="list-style-type: none"> - Going to the gym - 1st day of school - Hiking
	Embedded Object	<i>Name item type of embedded object here</i>
Mandatory property? (yes/no)		Yes

Sorting property? (yes/no)	No
Filtering property? (yes/no)	No

Property Name		Event
Item Type		Time
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>String</i>
	Controlled Vocabulary	<ul style="list-style-type: none"> - 6AM-7AM - 3:30PM - 5PM - 9PM-11PM
	Embedded Object	<i>Name item type of embedded object here</i>
Mandatory property? (yes/no)		Yes
Sorting property? (yes/no)		Yes
Filtering property? (yes/no)		No

Property Name		Event
Item Type		Date
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>String</i>
	Controlled Vocabulary	<ul style="list-style-type: none"> - August 26 - July 5 - October 8
	Embedded Object	<i>Name item type of embedded object here</i>
Mandatory property? (yes/no)		Yes
Sorting property? (yes/no)		Yes

Filtering property? (yes/no)	No
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Property Name	Event	
Item Type	Location	
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>String</i>
	Controlled Vocabulary	<ul style="list-style-type: none"> - August 26 - July 5 - October 8
	Embedded Object	<i>Name item type of embedded object here</i>
Mandatory property? (yes/no)	No	
Sorting property? (yes/no)	No	
Filtering property? (yes/no)	No	

Property Name	Event	
Item Type	Weather	
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>String</i>
	Controlled Vocabulary	<ul style="list-style-type: none"> - August 26 - July 5 - October 8
	Embedded Object	<i>Name item type of embedded object here</i>
Mandatory property? (yes/no)	No	
Sorting property? (yes/no)	No	

Filtering property? (yes/no)	No
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Property Name		Outfit
Item Type		Name of outfit
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>String</i>
	Controlled Vocabulary	<ul style="list-style-type: none"> - Gym outfit - Casual - Hiking gear
	Embedded Object	<i>Name item type of embedded object here</i>
Mandatory property? (yes/no)		Yes
Sorting property? (yes/no)		No
Filtering property? (yes/no)		No

Property Name		Outfit
Item Type		Event
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>String</i>
	Controlled Vocabulary	<ul style="list-style-type: none"> - Going to the gym - 1st day of school - Hiking
	Embedded Object	
Mandatory property? (yes/no)		Yes
Sorting property? (yes/no)		No

Filtering property? (yes/no)	No
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Property Name	Outfit	
Item Type	Top	
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>File or photo file</i>
	Controlled Vocabulary	
	Embedded Object	  
Mandatory property? (yes/no)	No	
Sorting property? (yes/no)	No	
Filtering property? (yes/no)	No	

Property Name	Outfit	
Item Type	Bottom	
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>File or photo file</i>
	Controlled Vocabulary	
	Embedded Object	 

		
Mandatory property? (yes/no)	No	
Sorting property? (yes/no)	No	
Filtering property? (yes/no)	No	

Property Name	Outfit	
Item Type	Shoes	
How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>File or photo file</i>
	Controlled Vocabulary	
	Embedded Object	  
Mandatory property? (yes/no)	No	
Sorting property? (yes/no)	No	
Filtering property? (yes/no)	No	

Property Name	Outfit
Item Type	Accessories

How will this property be encoded? Select ONE of these three rows to fill out:	Data Type	<i>File or photo file</i>
	Controlled Vocabulary	
	Embedded Object	  
Mandatory property? (yes/no)		No
Sorting property? (yes/no)		No
Filtering property? (yes/no)		No

Part 5: Metadata Records

User Events: Events which users need to attend and are in desire to plan ahead an outfit before attending an event with the app.

Name of Event <small>(Just the string message, photo is for decor)</small>	Time	Date:	Location	Weather
Going to the Gym 	6AM-7AM	August 26	Eppley Recreation Center	50 degree and sunny
Class 	10AM - 1PM	August 26	College of Information Studies	69 degree and sunny
Going for a hike 	3:30PM - 5PM	August 26	Great Falls Potomac	70 degrees and sunny
Out for Dinner 	6:30PM-8PM	August 26	Old Angler's Inn	70 degrees and sunny
Getting ready for bed	9PM-11PM	August 26	My house	40 degree and full moon



User Outfits: Outfits created for user events

Name of Outfit	Event	Top	Bottom	Shoes	Accessories
Gym outfit	Going to the gym *All other information from the user event metadata table.	A black sports bra with thin straps and a small logo on the chest.	Grey athletic shorts with pink piping along the waistband and side panels.	Pink and white running shoes with a textured upper and a thick sole.	A blue duffel bag with a repeating pattern of small red shapes.
Casual outfit	First day of school *All other information from the user event metadata table.	A black ribbed tank top with a subtle texture.	Light blue jeans with two small rips on the right knee.	White high-top sneakers with black stripes on the sides.	A black backpack with a front pocket and a small logo on the side.

Hiking gear	Going for hike *All other information from the user event metadata table.				
Formal outfit	Out for Dinner *All other information from the user event metadata table.		Nothing or null		
PJs	Getting ready for bed *All other information from the user event metadata table.				