1. Metadata

Team name: Pocket Devs

Team members :

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Our project is called "Pocket Closet". The purpose of our app is to aid users in making wardrobe choices. Pocket Closet will take into consideration the weather, material and colour coding pallets in order to intelligently select the best outfit to suit your needs. In addition the app will also allow users to get second opinion on outfits for different events, such as a first date, job interviews, or weddings etc.

The idea of the project spawned from how difficult it can be to select and prepare an outfit dealing with the overwhelming selections that can be in one's closet. We agreed that there were far too many times where we headed out without checking the weather and we were either over or under dressed. There was also times were after checking the weather in the morning we spent a good 30 mins still looking for the right outfit for the day.This involved rummaging through closets and trying outfits on and off. In addition, there are moments when we have two different outfits for an event that we are split on. During these times a second opinion can be extremely valuable. The final main feature of the app is the "Pack My Bag" option. This option will generate a wide selection of outfits the user can choose from and customize that are tailored to the weather conditions to a particular travel destination.

The Pocket Closet project capitalizes on the portable nature of mobile devices that make it easy to catalogue your wardrobe with a built in camera and photo storage, this is why it makes sense in the mobile factor. Users can easily take photos of their clothes and full outfits, and allow us to easily provide feedback to them in a convenient manner. On top of all of this the Pocket Closet allows encourages planning ahead and planning smart.

2. Requirements

2.1 Functional Requirements

1. Allow the user to login via email or social media
2. Check the local weather based on user's location
   - 2.1. Check the weather based on user's location of choice
3. Check the date and determine the season
4. Retrieve user's closet
5. Display the closet view upon user's request
6. Auto-Generate an outfit based on weather and occasion upon user's request
7. Add a new item to the closet upon user's request
   - 7.1. Allow user to take a picture of the item and upload it
   - 7.2. Allow user to fill an 'add form'
8. Remove an item from the closet upon user's request
   - 8.1. Provide option to locate closest charity for clothing donation
9. Favourite an item in a closet upon user's request
10. Filter items in closet based on tags provided by the user
11. Sort items in closet based on filters chosen by the user
12. Collect an assortment of outfits into a day wardrobe selected by the user
    - 12.1. Allow user to add premade outfits
    - 12.2. Allow the user to request an auto generated outfit
    - 12.3. Allow user to navigate the closet to form outfits to add
13. Collect an assortment of outfits into a virtual travel bag
    - 13.1. Allow user to fill in 'travel form'
    - 13.2. Allow user to add premade outfits
    - 13.3. Allow the user to request an auto generated outfit
    - 13.4. Allow user to navigate the closet to form outfits to add
    - 13.5. Sync filter settings with new weather data of travel location
14. Save an outfit for later
15. Generate Outfit of the Day
    - 15.1. Allow user to view and customize the outfit
    - 15.2. Allow user to the share the outfit

2.2 Scenario Examples

Scenario #1: Auto generate Outfit
The app will provide the user the option to skip the selection phase by selecting the auto generate button. It will look through one's closet, filter clothes based on the weather outside and choose an outfit for the user to view. If the user does not like the outfit generated, the user may click again to regenerate another outfit. [Functional Requirement 6]

Scenario #2: Pack My Bag
When a user wants to travel, they could use this option to help in choosing what to pack in the bag. All the user has to do, is input the destination, date of arrival and duration of the stay, and the app will dig deep into the closet and auto generate the outfits one should pack based on the weather and the length of the stay. [Functional Requirement 13]

2.3 Non-Functional Requirements

External:
- Ethical: There will be no data collection, or invasion of the user's privacy.
- Regulatory: Users must be 13 and up.
- Legislative:
  - Accounting: Weather information must be accurate.
  - Safety/security: Google app engine/Parse/AWS

Organizational:
- Development: We will be using the SCRUM Agile method

Product:
- Usability: The app should be easy to use, inputting information should not cause confusion to the user. User Would be required to input his clothing when he first uses the app.

- Dependability: The app should be able to work without internet access, when it accesses the internet it will download a week's worth of weather info in case the user loses internet access.
- Security: This app will have the login from google or facebook, the purpose is to save the user's data in case they switch phones.
- Efficiency:
  - Performance: Program should not take greater than a minute to be able load and find the forecast, it should work if the app is unable to connect to the internet and there should not be any peak times where it slows down.
  - Space: The app should not take more than 100MB, any picture will be added to the user's gallery.
  - Capacity: There will be no limit on clothing, outfits or favorited items.

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3. Mock-ups