



FitGen Update 11/15

T(eam)-Mobile



Areas of Focus for Sprint 2

- Jason - backend development
- Michael - UI development and sprint planning
- Abdel - Core scenario design and color analysis API research
- Sarsen - Weather+location API research and development

Core 1: Profiles - Status: Design

The user should be able to create multiple profiles and select which profile they would like to use during login in the main menu (potentially requires authentication)

Potential issue:

- Require login (authentication), then passwords would need to be stored in database (salt then hash of course :D)



src: <https://about.netflix.com>

Core 2: upload clothing - Status: Design

User will select “Add to Wardrobe” and be shown text box with some photo taking guidelines. Then they will be taken to their camera. They can photograph 1 or multiple items of clothing, then be prompted to “Continue” or “Cancel”. They will then be shown sequentially each item of clothing and they can fill in attributes and then submit. After they submit all their clothes they will be taken back to the main menu.

Potential issues:

- If user takes a picture of the clothing, the app should be able to generate basic attributes associated with the clothing in picture like color, which could be hard to parse



Core 3: image processing - Status: Design

API's used:

1. PhotoRoom API - to remove background from picture
2. SightEngine API - to extract color information about item
 - a. Primary - main color
 - b. Accent - bright accentuating colors





Core 4: View Wardrobe - Status: Design

User is shown list view of photos of all their added clothes. (In the backend this layout will be generated programmatically.) By default the clothes are shown by “Recently Added”. There is a menu button that will sort clothes “By Type” or the user will have other filtration options.

When the user clicks on a clothes item:

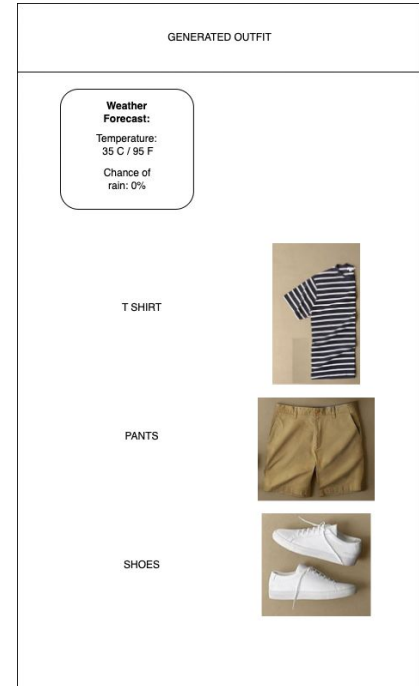
The clothes item will go full screen with attributes and “EDIT” and “DELETE” buttons underneath.

“EDIT” will allow user to change clothes attributes, “DELETE” will delete item and send user back to list view.

Core 5: generate outfits - Status: Design

After uploading their clothes to the app, the app should be able to generate outfits based on the attributes of the clothes, when there are not enough options (missing shoes for example), then the app should generate outfits without those clothes. In addition, the app will use the weather app to help tailor outfits based on the temperature/weather

- How to generate the outfits
- How much memory is it going to take? (hopefully doesn't become google chrome 2.0)
- What if an item becomes unavailable? (see core 7: laundry)





Core 6: View Saved Outfits - Status: Design

User will be shown list view of all of their saved outfits. They will have an option to delete these saved outfits.



Core 7: settings - Status: Design

User should have the ability to adjust how outfits are generated, how many outfits to generate, and account settings like profile name and password (option to add password)



Core 8: Laundry - Status: Design

User can go through wardrobe and designate certain items to go in the “Laundry”. Users can also add individual items to the Laundry in the “Generate Outfit”. Finally, User can click some button to remove all clothes from laundry (when they do the laundry obviously).

Sprints and Future Goals

Sprint 3

- ☐ Decide on and implement preliminary database (Firebase, SQLite?)
- ☐ Add wardrobe functionality to display user clothes
- ☐ Add functionality to add Clothes objects to user database
- ☐ Research color API/algorithm to examine user images
- ☐ Add more categorical information to clothes model (hot/cold, formal/casual, waterproof)

Sprint 2

- ☒ Create data structure for clothing
- ☒ Add functionality to add clothes
- ☒ Display clothing members (attributes)
- ☒ Refine main menu XML
- ☒ Add additional functionality to main menu
- ☒ Research our API (find useful endpoints)
- ☒ Implement preliminary weather API

- No risks yet - just focused on fleshing out core scenarios
- Any non-critical functionality?
 - Adding multiple clothing items simultaneously
 - Using color API to analyze user pictures
 - Detailed user preferences/settings menu
- % Done? 15%
 - Hardest part is starting



Thank you