**Project Part 2**

**Team:**   Andrew Gordon, Tommy Hoffmann, Connor McGuinness, Daniel Zurawski

**Title:**   What To Wear Weather

**Project Summary:**   Android application which tells users what kind of clothes they should be wearing based on the weather in their local area.

**Requirements:**

| User Requirements | | |
|---|---|---|
| **ID** | **Requirement** | **Priority** |
| US-001 | As a user, I want to see daily clothes recommendations when opening the app | Critical |
| US-002 | As a user, I want to select a recommended clothing item and be given shopping recommendations | Medium |
| US-003 | As a user, I want to be able to swipe the screen left or right and change the forecast day | High |

| Functional Requirements | | |
|---|---|---|
| **ID** | **Requirement** | **Priority** |
| FN-001 | On app startup, current GPS coordinates will be retrieved | High |
| FN-002 | App will move between portrait and landscape mode | Medium |
| FN-003 | App will use weather API to get weather at current GPS | High |
| FN-004 | Use a relational database to hold user data (age, gender) | High |
| FN-005 | Use a relational database to have sponsored brands | Medium |

| Non-Functional Requirements | | |
|---|---|---|
| **ID** | **Requirement** | **Priority** |
| NF-001 | Coordinates will use the Android system's fastest "best guess" | Low |
| NF-002 | Storage of user's settings/locations/outfits will be persistent | Medium |
| NF-003 | App will respond quickly and precisely to user touch/interaction | Medium |

**Users and Tasks:**

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| **Use Case ID:** | UC-01 |
| **Use Case Name:** | Setting Personal Preferences |
| **Description:** | User imputs personal preferences in settings when application is ran for the first time. |

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| **Actors:** | Application User | | |
| **Pre-Conditions:** | User personal preferences have not been set | | |
| **Post-Conditions:** | User preferences set | | |
| **Frequency of Use:** | One time | | |
| | | **Actor Action** | **System Action** |
| **Flow of events:** | 1 | User Opens application | System sees empty profile preferences and takes user to profile screen |
| | 2 | User enters personal profile preferences | System saves preferences in database |
| | 3 | | System takes user to home "clothes forecast" screen |

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| **Use Case ID** | UC-02 |
| **Use Case Name** | View clothes recommendations |
| **Use Case Description** | User inputs personal preferences in settings when application is ran for the first time. |

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| **Actors** | Application User | | |
| **Pre-Conditions** | User settings have been set | | |
| **Post-Conditions** | User viewing clothing recommendations | | |
| **Frequency of Use** | Every time application is opened | | |
| | | **Actor Action** | **System Action** |
| **Flow of events** | 1 | User Opens application | System sees completed user preferences and loads clothes recommendations |
| | 2 | User views clothes recommendations | |
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| Use Case ID | UC-03 |
|---|---|
| Use Case Name | View and save fashionable retailer suggestions |
| Use Case Description | User saves a fashionable retailer suggestion for purchase later |

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| Actors | Application User | | | |
| Pre-Conditions | User viewing clothes recommendations | | | |
| Post-Conditions | User saved new fashionable recommendations | | | |
| Frequency of Use | As frequent as user chooses | | | |
| | | | **Actor Action** | **System Action** |
| **Flow of events** | | 1 | User views clothes recommendations | |
| | | 2 | User Selects clothing item to view recommendations for | System displays retailer page for fashionable clothing item |
| | | 3 | User decides to save item for purchase later by clicking "save for later" | System saves retailer page in database |

**Activity Diagram:**

**Data Storage:** The application will use the Android internal storage in XML format. The storage requirements are not very large, in paticular user preferences and saved clothing recommendations will needed to be storaged, which we anticipate will be a few dozen items. The User Preferences class and User Recommendation class will be retrieving and modifying data from data storage.

**UI Mockups:**

**User Interactions:**

**Class Diagram**