Timeline for App Development

(November 10th – December 11th)

**Summary of Project Timeline**

Week #1 & Week #2: Planned app features and finished UI designs

Week #3: Started backend and established a way to transfer data from one java class to another

Week #4: Established a system to retrieve data from user and process it in the app

Week #5: Implemented Zomato and Google Maps API, allow it to process in the background thread and produce a UI friendly output in the main thread

**Original Weekly Developmental Goals:**

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| **Week** | **Objective** |
| Week #1  (11/6 – 11/12) | Plan features of the app and logistics of the project |
| Week #2  (11/13 – 11/19) | Complete designing the app UI |
| Week #3  (11/20 – 11/26) | Start backend and implementation of APIs |
| Week #4  (11/27 – 12/3) | Implement backend to process the response body of API calls |
| Week #5  (12/4 – 12/11) | Finish backend and start debugging any possible errors |

**Week #1 (11/6 – 11/12)**

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| **Meeting** | **Objective(s)** | **Accomplished** |
| #1 (11/10) | 1. Decide on a team name and an app name  2. Define development roles for all team members  3. Plan out general app layout & design | 1. Defined roles for team members1  2. Decided on a team name2 and an app name3  3. Finished discussing general layout and |

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| **Accomplishment(s)** | **Details** |
| 1*Defined Roles* | Project Lead – Yan Yan Huang  GUI Designer – Zami Seck  Documentation Manager – Alex Boccard  Interface Designer – Esteban Hernandez  Processing Designer – David Abadi |
| *2Team Name* | Cheapskates Inc. |
| *3App Name* | Cheapskates |

**Week #2 (11/13 – 11/19)**

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| **Meeting** | **Objective(s)** | **Accomplished** |
| #1 (11/13) | 1. Identify all required tasks for completion of app  2. Assign tasks for all team members  4. Start a repository in Github | 1. Assigned design tasks for each team member1  2. Identified what app features are priority2 |
| #2 (11/18) | 1. Debug & Revise final design  2. Assign tasks for next meeting | 1. Fixed a fatal bug that corrupted the entire project3  2. Assigned tasks for each team member4 |

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| **Accomplishment(s)** | **Details** |
| *1Defined Tasks* | Zami - Restaurant Description  Esteban – Food Categories  Avery – Home Page & Splash Page  David – List of Restaurants  Alex – Restaurant Description if no food matches budget |
| *2Priority/Secondary Features* | 1. Decided to use Zomato API for restaurant information and menu  2. Decided to move the implementation of “Your Cart” feature to the end of development after everything else is complete and functional |
| *3Debugging* | The entire Android Studios project crashed when everyone’s parts are merged. In order to fix it, we created a new repository and created a new Android Studios project. |
| *4New Design Tasks* | Everyone will be responsible to finish AND debug their design BEFORE pushing to Github. Everyone will be responsible for the completion and functionality of their previously assigned page. |

**Week #4 (11/27 – 12/3)**

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| **Meeting** | **Objective(s)** | **Accomplished** |
| #1 (11/28) | 1. Finish UI by linking all the designs together  2. Plan out how the backend works | 1. Debugged design problems  2. Add a toolbar for all pages  3. Decided on first steps for backend |
| #2 (12/3) | 1. Continue debugging UI  2. Start programming the backend and prepare for API implementation | 1. Added a loading page for API processing  2. Implemented a function to store budget and retrieve budget  3. Adjusted toolbar to only contain budget & option to change it |

**Week #5 (12/4 – 12/11)**

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| **Meeting** | **Objective(s)** | **Accomplished** |
| #1 (12/4) | 1. Allow buttons to register as a value for budget  2. Implement function to ask for permission for location sharing  3. Implement feature where user can change budget in toolbar  4. Fix error page if no items match input  5. Show original budget value | 1. Buttons at Home Page register as their intended values  2. User can change budget in toolbar  3. Displays the selected budget  4. Shows an error page when a budget of zero is selected |
| #2 (12/8) | 1. Implement API  2. Get Google Maps API working  3. Create function to sort the response data | 1. Established connection to API  2. Simplified UI for the error page  3. Reads user’s location in coordinates |
| #3 (12/9) | 1. Successfully make an Zomato API call  2. Figure out a way to store the information from the API call | 1. Used JSON Parsing to establish a connection to Zomato and obtain the response body  2. Read the response body into a JSON Object  3. Sorted the data inside the JSON object into a ListView |
| #4 (12/10) | 1. Finish sorting the API call’s response body  2. Get restaurant location to display on Google Maps  3. Get selected restaurant information to show when clicked  4. Catch any exceptions | 1. Implemented Google Maps API for display of restaurants  2. Produced a list of restaurants based on user’s budget  3. Produced specific restaurant information when selected  4. Added back buttons |