PlantTracker

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# **Vision Statement**

For green thumbs young and old and any experience-level who want to easily track important details of their plants, the PlantTracker app is a mobile application designed to help users keep an eye on watering frequencies, soil conditions, specific requirements for plants, etc. PlantTracker gives the user piece-of-mind knowing that the routines for their plants remain consistent. PlantTracker will remind the user of upcoming waterings or any other specific needs that the user must remember. PlantTracker will also help the user determine how often to water their plants and what sort of climate the plants grow best in.

**Requirements**

|  |  |
| --- | --- |
| **Actor** | **Goal** |
| Gardener | Have a list of plants they are taking care of |
|  | Keep track of the needs of their plants |
|  | Make a schedule of needs for their specific plant |
|  | Coordinate schedule of plants so they can align on similar days |
|  | Set reminders for the needs they must keep track of(such as watering, repotting, etc.) |
|  | Identify specific traits of the plants(such as shrub, flower, succulent, etc.) |
|  | Upload progress photos of their plants |
| System | Based on plant traits(such as shrub, flower, succulent, etc.) search json information for watering tips, potting tips, etc. |

**Product Backlog**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Story ID** | **Story** | **Story Points** | **Priority** | **Status** |
| S1 | Allow user to create plant list and upload photos/plant information | 10 | 1 | Partially completed 9/23/2016 |
| S2 | As a user I would like to upload my photos and track my plant progress. I would also like to save my plant information that has been uploaded to the app. | 10 | 2 |  |
| S3 | As a user I would like my plant’s progress to be displayed in a user-friendly manner so I can see how I have done with my plant. | 8 | 3 |  |
| S4 | Allow user to sync their plant schedules to Google calendars | 10 | 4 |  |
| S5 | As a user I would like to get information on the type of plant and how I should go about caring for it. | 15 | 5 |  |
| S6 | As a user I would like to be able to input information about my house layout(window locations) and get information about plant placement(put in front window, put in side window, etc.) | 15 | 7 |  |
| S7 | As a user I would like to input my location and have the app tell me good plants for my location. | 17 | 6 |  |

**Sprint #1 Plan**

|  |  |  |  |
| --- | --- | --- | --- |
| **Story ID** | **Story / Task** | **Estimated**  **Hours** | **Actual**  **Hours** |
| S1 | Design plant table UI | 3 | 4 |
|  | Implement add button to add plant information | 1 | 1 |
|  | Code add button event handler | 2 | 1.5 |
|  | Implement add button to add photo | 1 | - |
|  | Code event handler for photo | 2 | - |
|  | Add uploaded information to database | 1 | - |

**Retrospective**

For this iteration, I planned to complete my first story-point. I am proud of the work I was able to accomplish, but was unable to finish all of the tasks that I set out to complete. Taking the time to understand Android Studio’s interface took a little bit longer than I previously thought. Also, I was unable to make time to figure out how to allow users to gain access to their Android camera and upload photos. I will push that task to the next iteration. I may scrap uploading information to a database unless I can find a solution that I can implement in the given period of time. I think for future stories, I may need to break them up into smaller stories because I lumped a lot of tasks into single stories.

**Project Velocity: 10**

**Sprint #2 Plan**

|  |  |  |  |
| --- | --- | --- | --- |
| **Story ID** | **Story / Task** | **Estimated**  **Hours** | **Actual**  **Hours** |
| S1 (finish it) | Implement add button to add photo | 1 | 1 |
|  | Code event handler for photo | 1 | 1.25 |
| S2 | Save information user has uploaded | 2 | 1.5 |
|  | Pass the saved information back to the previous Activity | 2 | 2 |
|  | Display the passed information in a user-friendly interface | 2 | .25 |
|  | Create General UI for plant-progress tracker | 2 |  |
|  | When plant is clicked in main Activity, open up progress tracker | 1.5 |  |
|  | Save all this to persistent internal storage | 1 |  |

**Retrospective**

**Sprint Velocity**

**Sprint #3 Plan**

|  |  |  |  |
| --- | --- | --- | --- |
| **Story ID** | **Story / Task** | **Estimated**  **Hours** | **Actual**  **Hours** |
| S3 | Display plant progress in a User-friendly manner | 1.5 |  |
|  | Display user’s plants(from main activity) in a user-friendly manner | 1 |  |
|  | Add notes to the plant-progress to allow user to mark things they have succeeded at and things they need to work on | 1.5 |  |
|  | Give user ability to add progress photos and a brief description to the progress-tracker UI | 2 |  |
|  | Create UI for allowing user to mark when last-watered, last-pruned, etc. | 2 |  |