Nathan Cooley, Brad Ewing, Chris Hebert, Kaleigh Key, Shelby Pace, and Michael Towns

Dr. Kevin Cherry

CSC 490 info and retro.pdf

23 April 2018

**Team Name:** Academic Services Group

**GitHub URL:** <https://github.com/hallo-starman/Flora>

**Branch (most up-to-date):** master

**Trello URL:** <https://trello.com/b/cKR61tRf/scrum-board>

**Dependencies:** Android Studio and Android device or emulator

**Special instructions:**

1. Download Android Studio (<https://developer.android.com/studio/index.html>).
2. Check out our project from Version Control using the GitHub link.
3. Set up an emulator (we used the Pixel 2 with API 27) if you do not have an Android device.
4. Minimum Lollipop, API level 21, ABI system image x86\_64, Android 5.0 (Google Inc.)

**Academic Services Group**

Our story point estimation was improved slightly by playing “Planning Poker.” The team was able to compromise on a number for all stories. There were not any stories where the team was initially very different in our estimates. With this having been the last sprint, we were in sync with our understanding of the effort required for each story. Our increased understanding of Android and the APIs (gained over the course of this project) made this possible.

To communicate for our daily scrums, we met in person or used Google Hangouts to video call. When we met in person, it was typically after class around 3:00 P.M. or 4:00 P.M. On other days of the week, we met later in the day, closer to 6:00 P.M. or 7:00 P.M. Our video calls typically took place around 5:00 P.M. On average, the length of our daily scrums was 10 to 20 minutes. When our schedules allowed, we worked for an extended period of time after our daily scrum was complete.

This sprint’s estimated velocity was 107. The actual velocity of the sprint was 107. All members of our team completed everything they set out to accomplish for this sprint. As a team, we decided to assign the story for creating tests whenever it was clear who would have the necessary time for it. Brad Ewing completed his stories earliest of each of the members in the group; therefore, he took on the creation of the tests for this sprint. That is why his actually accomplished story points are greater than the points he set out to accomplish. No team members had any uncompleted stories before the sprint was done. At this point, our product is potentially shippable, as it has a great majority of the core functionality which we originally intended for the application. Aside from a few major bugs, our application is working properly and provides the user with valuable species information and recording tools.

**Story points:**

**Nathan Cooley** Set out to accomplish: 8 Actually accomplished: 8

**Brad Ewing** Set out to accomplish: 20 Actually accomplished: 25

**Chris Hebert** Set out to accomplish: 21 Actually accomplished: 21

**Kaleigh Key** Set out to accomplish: 21 Actually accomplished: 21

**Shelby Pace** Set out to accomplish: 21 Actually accomplished: 21

**Michael Towns** Set out to accomplish: 11 Actually accomplished: 11

**Commits:**

**Nathan Cooley** Total meaningful commits: 1

**Brad Ewing** Total meaningful commits: 23

**Chris Hebert** Total meaningful commits: 24

**Kaleigh Key** Total meaningful commits: 18

**Shelby Pace** Total meaningful commits: 15

**Michael Towns** Total meaningful commits: 12

We exclusively used behavioral testing to assess the functionality for this sprint. This testing was manual. We made sure that each test passed before this sprint officially ended. Brad Ewing wrote 14 tests for this sprint, bringing us to a total of 59 tests. He also manually executed the tests. Michael Towns also assisted in running the tests for this sprint as he had extensively tested the personal-recordings page.

If we were able to do another sprint, we would decrease the amount of story points. All of our intended functionality has been implemented to a certain degree, so the remaining sprint would be used to polish the functionality, improve the design, and resolve bugs in our application.The stories we would create for this sprint would be more focused and detail oriented. At this point, our application is in need of refining and error handling. In the previous sprint, we were somewhat overwhelmed by the amount of functionality we added to the application. Even though we did complete our stories, we were not quite able to code to our highest ability because of the rush to add functionality.

**Burndown Chart and Tables:**

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| --- | --- | --- |
| **Date** | **Remaining Points** | **Chart** |
| 4/9/2018 | 107 |
| 4/10/2018 | 96 |
| 4/11/2018 | 96 |
| 4/12/2018 | 96 |
| 4/13/2018 | 96 |
| 4/14/2018 | 91 |
| 4/15/2018 | 91 |
| 4/16/2018 | 86 |
| 4/17/2018 | 73 |
| 4/18/2018 | 68 |
| 4/19/2018 | 66 |
| 4/20/2018 | 53 |
| 4/21/2018 | 39 |
| 4/22/2018 | 0 |
| **Velocity** | 107 |

|  |  |
| --- | --- |
| **Date** | **Stories Moved to Done** |
| 4/10/2018 | (1) As a developer, I want to set a default theme when the app is launched for the first time so it doesn't crash |
| (5) As a developer, I want to fix the bug where images don't display on the species info page so the user can see them. |
| (5) As a developer, I want to fix the bug with descriptions causing them to display HTML so that the description is readable. |
| 4/14/2018 | (5) As a developer, I want an additional search bar for state when the user searches by county in the search page and map page to improve the user experience. |
| 4/16/2018 | (5) Allow the user to view sightings near their GPS location on the map page. |
| 4/17/2018 | (13) As a developer, I want the user to be able to upload pictures on the personal recordings page. |
| 4/18/2018 | (5) As a developer, I want to add about 10 additional tests so that the application's features can be tested. |
| 4/19/2018 | (2) Cleaned up number of results and improve load more functionality. |
| 4/20/2018 | (13) As a developer, I want to be able to group pictures into directories based on animals/sightings. |
| 4/21/2018 | (5) Include better error handling in map page. |
| (1) Add additional error handling in search page. |
| (8) As a developer, I want to display the user's uploaded pictures along with a name and description. |
| 4/22/2018 | (2) Update help page to reflect all of the final features. |
| (8) As a developer, I want to allow a user to be able to create a directory on the personal recordings page. |
| (8) As a developer, I want to redesign the layout of the species info page so that it conforms to the style document. |
| (8) As a developer, I want to clean up and reorganize the code and create methods to simplify the readability of the code. |
| (13) As a developer, I want to filter by kingdom so that the user can narrow their search. |