**Sprint 1 Report**

**R&M Software Solutions**

[student names redacted]

**What functionality does the system have at the end of this sprint? List user stories that you successfully implemented during this sprint (1 pt)**

Our system is made up of four components. We have our web scraper that we built with python. It uses the beautiful soup 4 html parsing library to pick out the proper event data from a facebook page. That scraper then sends the event data to a google sheet which is standing in as our database until we have our server up and running. We then have some javascript code which pulls the data from google sheets and formats it so it is easier to work with. That formatted data is then put into our test HTML page which is a mock up of the actual Glorious Recovery website. With these components, the overall functionality is being able to enter a link into the scraper script and seeing it populate as an event on the test webpage. Users can then add the event to their own calendar. The user stories that we've completed are:

*As a scraper, I want to pull events from facebook so that I can have event data to push in the future.*

*As a scraper, I want to push events to a google calendar and a database so that the data is able to be used.*

*As a user, I want to be able to add events to my personal calendar so I don't have to do it manually.*

*As a user, I want to see events on a calendar so it is easier for me to see what is coming up.*

*As a user, I want to see event data on an event page so I can see what events are coming up.*

**Did you end up making any changes to any of these user stories? Did you break down any further user stories? Did you identify any new user stories during this sprint and, if so, did you add them to the product backlog or decide to implement them right away? Explain (1 pt)**

- We split one of our stories into 2 parts; pull events (5 points) and display events (5 points). It was originally: As a scraper, I want to pull events from facebook and

display them on the master calendar and event page in order to see what events are coming up.

- New story created: Automate google authentication. We decided to add this to the product backlog because it was a new issue that arose whenever the script was run. Each time it asks to manually authenticate access to a google calendar. This is going to need to be automatic when it is running on the server for ease of access.
- New story created: purchase tickets to the event. [Project partner] was very enthusiastic about this feature being implemented, but at the moment, we are not sure how we want this to look. Will most likely be implementing this feature in sprint 4.
- New story created: have scraper run on a server. The scraper must be run on a server so that it is not dependent on a local machine. This will allow it to be accessed in the cloud.
- New story created: push event data to database. We want to store the data somewhere where it can be pulled from. Pre conditions: create a database (story ID 10)
- New story created: authenticate google calendar automatically. We've noticed that we need to re-authenticate to the calendar whenever we push new event data, so we want to make the process smoother for [project partner].
- Focused on getting description data to display, so we did not implement the see more details feature yet. Will be pushing it to Sprint 2. We focused more on the flow of the data during this Sprint instead of worrying about making it pretty.

**What are the "lessons learned" at the end of this sprint? What would you do differently next time? Explain (1 pt)**

- Need to do more research on the technology we want to use so we aren't spending a lot of time figuring out how it works.
    - Distribute research tasks among the four of us; each of us specializing in a specific topic so we are proficient in our given topics.
- Utilize your additional resources - Prof. King
    - Reach out to Prof. King if we have any networking-related questions instead of just guessing how we could implement a feature.
- Time is limited to meet/work during exams
    - We were pressed for time during midterms and we know the same thing will happen during finals. We decided that we need to do the bulk of the work during sprint 2 & 3 so we aren't stressing during sprint 4.

**Provide an updated numbered list of all user stories yet to be implemented; indicate pre- and post-conditions (1 pt)**

*This is the list of stories remaining in the backlog minus the ones implemented in Sprint 1. The ones highlighted in pink are the ones that we are implementing in Sprint 2.*

| ID | As a/an | I want to… | so that… | Notes | Priority | Size |
|---|---|---|---|---|---|---|
| 1 | User | see a "browse upcoming events" page | it's easier to find them | view by most recent - least recent | High | 5 |
| 2 | User | have a search function for events | I'm able to find specific events | | Medium | 2 |
| 3 | User | click on each event and see more details | I can see if it would be something I would enjoy going to | Maybe a popup feature or hidden until clicked | High | 1 |
| 4 | User | filter the events page based on interests, time, organization, and location | I spend less time looking at the wrong events | *Precondition: Story 2* | Medium | 5 |
| 5 | User | see if I can purchase tickets to the event | I can buy them if they're required | To be shown on the "see more details" and event calendar *client requested* | medium | 13 |
| 6 | Admin | Add and delete URLs from the scraper list | So I don't have to re-upload the list | *Precondition: Story 9 & 10* | High | 3 |
| 7 | Admin | view analytics related to the calendar and | I can have the data | | Low | 3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | events | | | | |
| 8 | Admin | have the ability to delete events | I can remove potentially inappropriate events | | High | 2 |
| 9 | Scraper | run on a server | So I can be accessed/run anywhere | | Very High | 3 |
| 10 | Scraper | have a database | I can store event information | | High | 1 |
| 11 | Scraper | push event data to the database | So the data can be accessible | *Precondition: Story 10* | Very High | 3 |
| 12 | Scraper | automatically authenticate with google calendar | the admin does not have to manually re-enter it | | Medium | 1 |
| 13 | Scraper | be automated | update the webpage without admin interaction | *Precondition: Stories 9-12* | High | 5 |
| **SUM** | | | | | | 64 |