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## **Sprint Review**

*for UMaine Connect by Maineframe (Group 2)*

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# Sprint 1

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**Product Owner:** Nicole Cortez , Andres Vargas, Ayan Tariq

**Scrum Master:** Sean Radel, Noah Brooks

**Development Team:** Sean Radel

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## Features Implemented

### *Development*

The project's website landing page was created.

### *Documentation*

Our Kanban board was created and populated with Deliverable 1 necessities.

## Issues Fixed

We uploaded necessary documents to the GitHub repository and fixed the issues with our previous user stories.

## Implementation Review (What went well in the implementation, what problems occurred, how problems were solved)

The team started development of the website. Basic CSS and HTML were pulled together to create a functional landing page.

## Changes Made

- All website source code was created in this sprint.
- UI wireframes were created.

## Plans for next sprint (What will be done for the next sprint)

During our next sprint we will be implementing the Google Map API, event creation on the map, and viewing of events. The team plans on creating a logo for the project during the next sprint.

## Scrum Review (What went well in Scrum, what could be improved, and what changes will be made)

We did a good job making decisions related to development of our code. The team was very efficient with editing and making corrections to our errors made in deliverable 0. The team had no trouble adapting to new technologies such as GitHub and ZenHub.

## Sprint 2

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**Product Owner:** Ayan Tariq , Nicole Cortez , Sean Radel

**Scrum Master:** Andres Vargas

**Development Team:** Noah Brooks

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### Features Implemented

#### *Development*

We began the implementation of login authentication and Firebase integration. A functional login page was created.

#### *Documentation*

Our Kanban board was populated with Deliverable 2 necessities. We implemented a color-coding system in our product backlog to help us assess our progress and priorities more easily.

### Issues Fixed

We revised the SRS, user story document, and product backlog based on the feedback provided for Deliverable 1.

- The system features and nonfunctional requirements sections of the SRS were updated. The system features and associated functional requirements, particularly sections 4.1 and 4.6, were revised to more accurately describe the features rather than the potential method of implementation. We also removed the functional requirements that had been included in the nonfunctional requirements section.
- The user story document was updated to reflect the numbering system used in the product backlog. Additionally, redundant user stories were removed, and an additional user story that encapsulated a core feature of the application (#21) was added.
- The product backlog was updated to ensure consistency with the user story document. We reassessed our development progress and priorities and reassigned some stories to different sprints, including sprints 6 and beyond, which were not previously considered.

### Implementation Review (What went well in the implementation, what problems occurred, how problems were solved)

- Couldn't get Google login authentication working
  - Login authentication was able to work otherwise.
- Account Creation doesn't work

### Changes Made

- Login page was created.

### **Plans for next sprint (What will be done for the next sprint)**

- Finish tasks that were started during deliverable 1 and 2, research for 3
  - We have large knowledge gaps that we need to overcome to complete the development for deliverable 3.
- Continue application development as detailed by the product backlog

### **Scrum Review (What went well in Scrum, what could be improved, and what changes will be made)**

We did a good job this week with managing our time and starting on the deliverable much earlier in the week than last time. Delegation of work was done much earlier which allowed everyone to get started on their work prior to the scrum meeting if desired. This has been a very successful change for us, so we will be continuing this for all future sprints, delegating work at the beginning of each sprint so that every team member is aware of and able to start their parts as early as possible. Communication seemed improved this sprint as the group was better acquainted with each other and scheduling was improved.

Every member contributed equally this deliverable. We were able to finish our work far enough behind the deadline to a point that it was not stressful.

## Sprint 3

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**Product Owner:** Ayan Tariq, Noah Brooks

**Scrum Master:** Nicole Cortez

**Development Team:** Nicole Cortez, Sean Radel, Andres Vargas

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### Features Implemented

#### *Development*

- We added a favicon to the UMaine Connect website, with different formats to support multiple browsers and platforms.
- We had a list view of events on the map
  - Users can read the list as well as add to it.

#### *Documentation*

We set up our Kanban board with sprints, created issues for all of our user stories, and assigned them to the corresponding sprints with the amount of story points we enumerated in the product backlog. We ran into a few issues with the limitations of ZenHub's sprint creation tool:

- ZenHub does not allow the creation of sprints that ended prior to the current date or sprints more than 3 sprint cycles into the future, so the board currently only reflects sprints 3 (closed), 4, 5, and 6. Sprints 1 and 2 cannot be reflected in the board, as they concluded before we set up the board with sprints.
- ZenHub also does not allow sprints of different lengths, so sprint 3 is currently shown to have ended on Deliverable 3's original due date of March 21st. Work for Deliverable 3 actually continued until March 24th. This is an exceptional case, as Deliverable 3's due date was extended; the end dates of all other sprints are correct.

We believe this new way of organizing our board will help us assess our progress and upcoming goals more easily.

We created many sequence diagrams that help facilitate further development by giving us a clear view of roughly what needs to be done as far as coding requirements go and how systems will need to interact with each other. We can also show off how current implementations of code are working and with what systems they are working with.

### Issues Fixed

- We added a description to the glossary of the SRS to clarify the scope of the phrase "known software security vulnerabilities" in item 5.3.6. We were not required to resubmit the SRS with Deliverable 3, so we did not include it in our submission.
- We fixed many issues with the Use Case Description and Use Case Models. We made our "Steps" and "System Responses" much more abstract, as well as added missing uses cases to the Use Case Models.

## **Implementation Review (What went well in the implementation, what problems occurred, how problems were solved)**

Three different team members implemented features during this sprint. This was the first sprint that we had more than one member do any coding. This was a great change because more members were able to get familiar with the codebase and how to use the methods provided by the Firebase API.

### **Changes Made**

- Favicon added.
- List view added to the home page.
- Profile page created.

### **Plans for next sprint (What will be done for the next sprint)**

During the next sprint, the team plans to further develop the profile page and event list features. We will work on implementing a way for users to create events so that they will be saved to the database and viewable in the event list. We will also work on allowing users to sort events in the list by the number of committed attendees and to filter events by category.

## **Scrum Review (What went well in Scrum, what could be improved, and what changes will be made)**

The team did well with time management and working together to accomplish our goals. Each task was delegated to at least two people (including application development work, which for the previous two sprints had only been done by one person), and working together allowed us to complete these tasks faster and more thoroughly. We also started work early enough in the sprint that we could get feedback on it and make changes that significantly improved our final products.

## Sprint 4

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**Product Owner:** Sean Radel, Noah Brooks , Andres Vargas

**Scrum Master:** Ayan Tariq

**Development Team:** Nicole Cortez

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### Features Implemented

#### ***Development***

We implemented some examples within the event list to model how details are to be displayed within our list view.

#### ***Documentation***

We started this sprint by assigning all of our tasks on the kanban board. After creating our documents and delegating our tasks, we revised errors from the past sprint, then worked on new documents.

- Configuration Management
  - The configuration management plan describes the configuration management strategies that we will employ in the development of UMaine Connect.
- Domain Model
  - The domain model describes what classes and actions are performed within our system.
  - The domain model describes how classes interact with each other from an abstract view.

### Issues Fixed

We revised our documentation based on feedback we received for Deliverable 3.

- Sequence diagrams: We revised our scenario descriptions to ensure that they were consistent with the processes represented in our diagrams.
- Sprint backlog: We removed an item that was erroneously included for Sprint 3 in the sprint backlog to ensure that it was consistent with the product backlog.

We also reassessed the priority of some items in the product backlog to better reflect our development goals and trajectory.

### **Implementation Review (What went well in the implementation, what problems occurred, how problems were solved)**

This week we focused a lot of our development efforts towards knowledge acquisition, as in the past sprints each developer has focused on their own particular “sections” within the project, so familiarizing each other with the code will allow for further development to be easier.

This issue became evident when we started building off of each others work this sprint. It was challenging to familiarize everyone with the APIs we implemented, but will boost further productivity.

### **Changes Made**

- Events implemented within list view

### **Plans for next sprint (What will be done for the next sprint)**

For the next sprint, we are going to focus on finishing some of the in progress stories from the product backlog, as well as addressing some of the user stories assigned for the fifth sprint. However, we may need to reassign some stories to sprints 6 and above, as our small development team cannot complete all of it in a timely manner.

### **Scrum Review (What went well in Scrum, what could be improved, and what changes will be made)**

The team did a good job working together this week, as tasks were delegated in reasonable work loads. Some source of improvement may be meeting sooner, as we met closer to the deadline, which ultimately gave us less time to be able to complete our work, but it did not inhibit our ability to complete it. Next sprint we will most likely focus on more proactive sessions.