



FLORIDA TECH

Course Planner

Milestone 1

Progress Evaluation

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Sponsored by

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Progress of Milestone 1

Task	Completion %	Ahsi	Xu	Brandon	Tom	To do
Investigate tools	100%	30%	50%	10%	10%	none
Hello World Demos	100%	50%	50%	0%	0%	none
Resolve Technical Challenges	75%	25%	25%	25%	0%	Learn AngularJS, Learn how to crawl several websites for information
Requirement Document	100%	15%	25%	10%	50%	none
Design Document	100%	25%	25%	25%	25%	none
Test Plan	100%	0%	0%	100%	0%	none

Discussion of Accomplished Tasks

Discussion of each accomplished task (and obstacles) for the current Milestone

- Task 1: Investigation of tools consisted of finding web development tools to create web app. Google Appmaker was initially considered as it allowed collaboration in real-time, was able to run scripts and was free to use. However, problems arose from slow run time, difficult usage due to limited documentation, and lack of freedom for using data sources. Webforms was considered but since it could only be used through Windows computers and not everyone in the team had one, that option was discarded. Lastly, AngularJS is the most recent tool to be looked at and seems to be more promising for coding and speed of testing, but not many members know how to use it.
- Task 2: “Hello world demos”: We have shown that we can implement the bubble sort algorithm in both Google Appmaker and in AngularJS. We have also successfully demonstrated the ability to read a JSON file using AngularJS. Reading a JSON file is key to assisting Florida Tech students in creating their schedule, so learning how to do this is more than just a “hello world.” Finally, we also demonstrated the ability to accept and read a file through a webapp using AngularJS. This is another key piece of functionality as it will allow us to save and restore a user’s state without the need for retaining the user’s academic information.
- Task 3: Resolve technical challenges: Web development was researched by the team and it was found that the best language to use was JavaScript. In regards to not crossing legal boundaries, it was decided to use a file download system on the web application to avoid storing student data. Lastly, sources of information were researched including faculty contact information, course catalog, and surveys were given to students to understand the current registration process at Florida Tech.

- Task 4: Compare and select collaboration tools: Very early in the project we decided to use Slack as our primary communication tool. Slack is a free application that allows its users to create chat rooms and groups. It also allows for private messaging. This tool is already helping us to communicate effectively. We are also using the Google suite of office tools in order to collaborate on documents and presentations. Finally, for source control management we have selected github, primarily because all members of the group have used it before.
- Task 5: Requirements Document: In order to better understand our requirements, we created a series of fully dressed use cases detailing the core functionality of the application we are describing. We presented this document to our client whose feedback was that it was excellent. We then proceeded to create our requirements document.
- Task 6: Design Document: The team worked together to create our design document. Xu worked on the ui mock-ups, Brandon and Thomas worked on the UML diagram, and Ahsi worked on descriptions of our methods.
- Task 7: Test Plan: Brandon did the bulk of the work on the test plan. He took each requirement listed in our Requirements Document and verified that it is testable. He then created a test procedure for each one to ensure that we meet each of our requirements.

Discussion of contribution of each team member to the current Milestone:

- Xu Zhen: Contributed in testing hello world demo in Google Appmaker; aided in the forming of the Requirements, Design, and Test documents, Principal researcher in AngularJS. Also, helped in creating UI mockup.
- Ahsi Lo: Researched web development tools such as Google App Maker and Webforms, Contributed to survey and user stories, Contributed in the requirements and design document. Also, gathered information regarding registration and faculty contact to establish information hub.
- Brandon Sawyer: Helped test the deployment of Google Appmaker script, created the presentation, helped in requirements, design, and test documents.
- Thomas Winderweedle: Principal creator of requirements document, established use cases for the course registration assistant, helped test the deployment of Google Appmaker script, created the user surveys and helped distribute them to classes. Contributed to design document.

Plan for the next Milestone

Task	Ahsi	Xu	Brandon	Tom
Resolve Technical Challenges	Resolve Technical Challenges	Resolve Technical Challenges	Resolve Technical Challenges	Resolve Technical Challenges

Implement, test & demo <i>Auto-generated class schedule given list of classes</i>	Implement, test & demo <i>Auto-generated class schedule given list of classes</i>	Implement, test & demo <i>Auto-generated class schedule given list of classes</i>	Implement, test & demo <i>Auto-generated class schedule given list of classes</i>	Implement, test & demo <i>Auto-generated class schedule given list of classes</i>
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Discussion (at least a few sentences, ie a paragraph) of each planned task for the next Milestone

- Task 1: Resolve technical challenges: The technical challenges that we have left to resolve are to learn AngularJS and to learn how to crawl websites for data. AngularJS is the more pressing need because it is required for task 2. Crawling websites for data is required for a feature that we will be implementing in a future sprint.
- Task 2: Implement, test & demo auto-generated class schedule given list of classes: This is one of the core functionalities of our project. We have selected this task first because it is the “low hanging fruit.” It should be fairly straightforward to implement and it will bring a significant amount of value to our user-base. Students will be able to navigate a user-friendly menu in order to select which classes they are interested in taking. They will also be able to select a range of how many credit hours they wish to take. Once they have made these selections the system will automatically generate and display several schedules that fit the criteria.

Date(s) of meeting(s) with Client during the current milestone:

9/3/19, 9/17/19, 9/24/19

Client feedback on the current milestone

- see Faculty Sponsor Feedback below

Date(s) of meeting(s) with Faculty Sponsor during the current milestone: 9/3/19, 9/17/19, 9/24/19

Faculty Sponsor feedback on each task for the current Milestone

- Task 1: Can use Andrew server to host website if google appmaker doesn't work out.
- Task 2: None
- Task 3: None
- Task 4: None
- Task 5: "Best requirements document I've ever seen", correlate user stories to survey results
- Task 6: None
- Task 7: None

Faculty Sponsor Signature: _____

Date: _____

Faculty Sponsor Evaluation

- Faculty Sponsor: detach and return this page to Dr. Chan (HC 322)
- Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

Xu Zhen	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Ahsi Lo	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Brandon Sawyer	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Thomas Winderweedle	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

- Faculty Sponsor Signature: _____
Date: _____