

CECS 491B - Sec 6 - Sprint Planning Document

Project Name: ArrowNav

Team Longhorn:

Brayan Fuentes

Christian Lucatero

Curtis Nishihira

Miguel Zavala

Spencer Gravel (Team Leader)

February 20, 2021

Formal Review Process (minimum criterion):

1. One teammate required to read and leave at least one comment
2. Fix comments and read through document again to look for errors
3. Another teammate is required to read and either leave comment or give approval
4. Send to/Visit Client for technical review
 - a. (Unapproved) -> make changes based on client remarks then repeat

Sprint 0

Sprint Goals:

12 hours

- Draft Proposal

Story Points	Internal Due Date	External Due Date	Priority
12	9/6	10/5	1

- story points: 12 per person | internal due date: 9/6 | external due date: 10/5 | priority: 1
 - Every Team Member:
 - Research
 - Completion Criteria: Come up with at least two physical examples of projects and pertinent info with said projects
 - Attend Initial In-Person Group Meeting
 - Completion Criteria: Attend meeting for at least 2 hours to go over proposal
 - Idea Pooling
 - Completion Criteria: Come up with at least two ideas for project
 - Select Idea
 - Completion Criteria: Whole team agrees on idea
 - Features
 - Completion Criteria: Come up with at least two features for selected Idea
 - Proposal Review
 - Completion Criteria: Different than formal review because the whole team needs to leave at least one comment before submission

Sprint 1

- Proposal Completion (estimated 3 resubmissions)

Story Points	Internal Due Date	External Due Date	Priority
8	9/20	10/5	1

- Spencer (Primary)
 - Handles communication with Client
 - Completion Criteria: Email communication and office hours for each proposal submission
 - Convert feedback from team members and apply them to the proposal
 - Completion Criteria: Address all comments and feedback from team and edit document accordingly
 - Final approval before each proposal submission
 - Completion Criteria: Check whole document for grammatical or content issues

- Proposal editing

Story Points	Internal Due Date	External Due Date	Priority
3 (per person)	9/20	10/5	2

 - Every Team Member:
 - Proposal Review Process (3 times estimated) because of inexperience
 - Completion Criteria: Everyone leaves at least one comment and everyone gives approval before submitting)
 - Provide feedback on aspects of the proposal that need changing or augmenting
 - Completion Criteria: Everyone leaves at least one suggestion for a change
 - Voice concerns with the primary regarding any issues with the proposal
 - Completion Criteria: If pertinent contact the primary of document

- Start BRD

Story Points	Internal Due Date	External Due Date	Priority
10	9/20	10/5	3

 - Miguel (Primary):
 - Research BRD
 - Completion Criteria: Read at least three websites on example BRDs
 - Select an outline/format
 - Completion Criteria: outline has been sent and approved by client
 - Draft BRD
 - Filling outline with available information
 - Completion Criteria: Fill outline with all pertinent information from proposal

- Review Process (1 & 2)
 - Completion Criteria: Steps 1 & 2 completed

- Edit BRD

Story Points	Internal Due Date	External Due Date	Priority
5	9/20	10/5	7

- Spencer (Secondary):
 - Approve of formatting for BRD
 - Completion Criteria: Determining whether the template and/or format of the chosen BRD by the Primary is suitable to use.
 - Reviewing document(s) after Primary has completed their tasks
 - Completion Criteria: Providing feedback and corrections on the submitted document(s) and relaying what can be done to improve said document(s)
 - Give insight/assistance when asked by Primary
 - Completion Criteria: Help Primary in answering questions or concerns regarding BRD.

- Start Tech Spec

Story Points	Internal Due Date	External Due Date	Priority
14	9/20	10/5	6

- Christian (Primary)
 - Research Tech Spec
 - Completion Criteria: Read at least three websites on example Tech Spec templates and formats
 - Select an outline/format
 - Completion Criteria: outline has been sent and approved by client
 - Draft Tech Spec
 - Filling outline with available information
 - Completion Criteria: complete outline with available information dependent on proposal completion
 - Review Process (1 & 2)
 - Completion Criteria: Steps 1 & 2 completed

- Edit Tech Spec

Story Points	Internal Due Date	External Due Date	Priority
5	9/20	10/5	10

- Curtis (Secondary):
 - Approve of formatting for Tech Spec
 - Completion Criteria: Determining whether the template and/or format of the chosen Tech Spec by the Primary is suitable to use.
 - Reviewing document(s) after Primary has completed their tasks
 - Completion Criteria: Providing feedback and corrections on the submitted document(s) and relaying what can be done to improve said document(s)
 - Give insight/assistance when asked by Primary
 - Completion Criteria: Help Primary in answering questions or concerns regarding the Tech Spec.

- Start Site Map

Story Points	Internal Due Date	External Due Date	Priority
14	9/20	10/5	5

- Brayan(Primary)
 - Research Site Map
 - Completion Criteria: Read at least three websites on example Site Maps
 - Select an outline/format
 - Completion Criteria: outline has been sent and approved by client
 - Draft Site Map
 - Filling outline with available information
 - Completion Criteria: complete outline with available information dependent on proposal completion
 - Review Process (1 & 2)
 - Completion Criteria: Steps 1 & 2 completed

- Edit Site Map

Story Points	Internal Due Date	External Due Date	Priority
5	9/20	10/5	9

- Spencer (Secondary):
 - Approve of formatting for the Site Map
 - Completion Criteria: Determining whether the template and/or format of the chosen Site Map by the Primary is suitable to use.
 - Reviewing document(s) after Primary has completed their tasks
 - Completion Criteria: Providing feedback and corrections on the submitted document(s) and relaying what can be done to improve said document(s)
 - Give insight/assistance when asked by Primary

- Completion Criteria: Help Primary in answering questions or concerns regarding the Site Map.

- Start HL Design

Story Points	Internal Due Date	External Due Date	Priority
14	9/20	10/5	4

- Curtis(Primary)

- Research HL Design
 - Completion Criteria: Read at least three websites on example HL Design
- Select an outline/format
 - Completion Criteria: outline has been sent and approved by client
- Draft HL Design
 - Filling outline with available information
 - Completion Criteria: complete outline with available information dependent on proposal completion
 - Review Process (1 & 2)
 - Completion Criteria: Steps 1 & 2 completed

- Edit HL Design

Story Points	Internal Due Date	External Due Date	Priority
3	9/20	10/5	8

- Brayan (Secondary):

- Approve of formatting for HL Design
 - Completion Criteria: Determining whether the template and/or format of the chosen HL Design by the Primary is suitable to use.
- Reviewing document(s) after Primary has completed their tasks
 - Completion Criteria: Providing feedback and corrections on the submitted document(s) and relaying what can be done to improve said document(s)
- Give insight/assistance when asked by Primary
 - Completion Criteria: Help Primary in answering questions or concerns regarding HL Design.

Sprint 2 (assumption proposal approved deadline at the end of sprint)

- Completion of Proposal (estimated 1 resubmission)

Story Points	Internal Due Date	External Due Date	Priority
5	9/27	10/5	1

- Spencer:
 - Communicate with Client
 - Completion Criteria: Handle all emails to client regarding proposal submissions.
 - Edit document
 - Completion Criteria: Address all comments of team and make necessary edits

- Proposal Editing

Story Points	Internal Due Date	External Due Date	Priority
1	9/27	10/5	2

- Every Team Member:
- Proposal Review Process (1)
 - Completion Criteria: Everyone reads the revised proposal, leaves at least one comment, and everyone gives approval before submitting)

- Complete BRD

Story Points	Internal Due Date	External Due Date	Priority
26	10/4	10/6	3

- Miguel:
 - Update document with approved proposal information
 - Completion Criteria: any information not included from proposal has been added to document
 - Review Process (estimated 2 times)
 - Completion Criteria: all four steps of the official document review process

- Edit BRD

Story Points	Internal Due Date	External Due Date	Priority
7	10/4	10/6	7

- Spencer (Secondary):
 - Approve final BRD
 - Completion Criteria: Determining whether the final BRD by the Primary is suitable to use.
 - Reviewing document(s) after Primary has completed their tasks
 - Completion Criteria: Providing feedback and corrections on the submitted document(s) and relaying what can be done to improve said document(s)
 - Give insight/assistance when asked by Primary
 - Completion Criteria: Help Primary in answering questions or concerns regarding BRD.

- Complete Tech Spec

Story Points	Internal Due Date	External Due Date	Priority
20	10/4	10/6	6

- Christian:
 - Update document with approved proposal information
 - Completion Criteria: any information not included from proposal has been added to document
 - Review Process (estimated 2 times)
 - Completion Criteria: all four steps of the official document review process

- Edit Tech Spec

Story Points	Internal Due Date	External Due Date	Priority
4	10/4	10/6	10

- Curtis (Secondary):
 - Approve final Tech Spec
 - Completion Criteria: Determining whether the final Tech Spec by the Primary is suitable to use.
 - Reviewing document(s) after Primary has completed their tasks
 - Completion Criteria: Providing feedback and corrections on the submitted document(s) and relaying what can be done to improve said document(s)
 - Give insight/assistance when asked by Primary
 - Completion Criteria: Help Primary in answering questions or concerns regarding Tech Spec.

- Complete Site Map

Story Points	Internal Due Date	External Due Date	Priority
20	10/4	10/6	5

- Brayan (Primary):
 - Update document with approved proposal information
 - Completion Criteria: any information not included from proposal has been added to document
 - Review Process (estimated 2 times)
 - Completion Criteria: all four steps of the official document review process

- Edit Site Map

Story Points	Internal Due Date	External Due Date	Priority
7	10/4	10/6	9

- Spencer (Secondary):
 - Approve final Site Map
 - Completion Criteria: Determining whether the final Site Map by the Primary is suitable to use.
 - Reviewing document(s) after Primary has completed their tasks
 - Completion Criteria: Providing feedback and corrections on the submitted document(s) and relaying what can be done to improve said document(s)
 - Give insight/assistance when asked by Primary
 - Completion Criteria: Help Primary in answering questions or concerns regarding Site Map.

- Complete HL Design

Story Points	Internal Due Date	External Due Date	Priority
20	10/4	10/4	4

- Curtis:
 - Update document with approved proposal information
 - Completion Criteria: any information not included from proposal has been added to document
 - Review Process (estimated 2 times)
 - Completion Criteria: all four steps of the official document review process

- Edit HL Design

Story Points	Internal Due Date	External Due Date	Priority
5	10/4	10/6	8

- Brayon (Secondary):
 - Approve of formatting for HL Design
 - Completion Criteria: Determining whether the template and/or format of the chosen HL Design by the Primary is suitable to use.
 - Reviewing document(s) after Primary has completed their tasks
 - Completion Criteria: Providing feedback and corrections on the submitted document(s) and relaying what can be done to improve said document(s)
 - Give insight/assistance when asked by Primary
 - Completion Criteria: Help Primary in answering questions or concerns regarding HL Design.

- Retro Preparation

Story Points	Internal Due Date	External Due Date	Priority
7	10/4	10/6	8

- Spencer:
 - Draft retrospective documents
 - Completion Criteria: Finish the scrum metric charts
 - Approve all milestone 1 documents
 - Completion Criteria Read and make any necessary edits on all documents as final last check

Sprint 3 10/6 -10/14

- Start Project Plan

Story Points	Internal Due Date	External Due Date	Priority
21	10/14	10/26	1

- Brayon (Primary) & Curtis (Secondary):
 - **Gather Research (5 story points)**
 - Completion criteria: Both partners must read and take notes on at least 3 resources or websites
 - **Select a format or outline (5 story points)**
 - Completion Criteria: Both partners have researched possible outlines and have agreed to select one
 - **Begin formatting the project plan. (5 story points)**

- Completion Criteria: Utilize sufficient information on how to correctly create a project plan to create a skeleton document
- **Draft the project plan. (6 story points)**
 - Completion Criteria: Both partners will contribute to a document with the foundational information necessary for the project plan

- Start Test Plan

Story Points	Internal Due Date	External Due Date	Priority
18	10/14	10/26	2

- Miguel (Primary) and Spencer (Secondary)
 - **Gather Research (3 story points)**
 - Completion criteria: Both partners must read and take notes on at least 3 resources or websites
 - **Select a format or outline (5 story points)**
 - Completion Criteria: Both partners have researched possible outlines and have agreed to select one
 - **Begin formatting the test plan. (5 story points)**
 - Completion Criteria: Utilize sufficient information on how to correctly create a test plan to create a skeleton document
 - **Draft the test plan. (5 story points)**
 - Completion Criteria: Both partners will contribute to a document with the foundational information necessary for the test plan

- Start Network Diagram

Story Points	Internal Due Date	External Due Date	Priority
15	10/14	10/26	3

- Christian:
 - **Gather Research (5 story points)**
 - Completion Criteria: Understand what makes a good network diagram and what information is necessary.
 - **Begin formatting the network diagram (5 story points)**
 - Completion Criteria: Gather sufficient information on how to correctly create a network diagram.
 - **Draft the network diagram (5 story points)**
 - Completion Criteria: Have a document with the foundational information necessary for the network diagram.

Sprint 4 10/15 -10/26

- Finish Project Plan

Story Points	Internal Due Date	External Due Date	Priority
21	10/26	10/27	1

- Brayan (Primary) & Curtis (Secondary):
 - **Edit existing Project Plan (7 story points)**
 - Completion criteria: Both partners must read over and edit the existing Project Plan and correct any errors found.
 - **Use client feedback to adapt/change the Project Plan (7 story points)**
 - Completion Criteria: Both partners will alter the Project Plan according to the client's specifications.
 - **Finalize the Project Plan. (7 story points)**
 - Completion Criteria: Both partners are satisfied with the final product of the Project Plan and have it ready to show to the client.

- Finish Test Plan

Story Points	Internal Due Date	External Due Date	Priority
18	10/24	10/27	2

- Miguel (Primary) and Spencer (Secondary)
 - **Test Plan Review (2 Story Points)**
 - Completion criteria: The document draft must be edited and reviewed by both partners before having the client review the document
 - **List Out Features (5 Story Points)**
 - Completion Criteria: List out all features to be tested within the Test Plan
 - **Evaluate type of tests for feature (5 Story Points)**
 - Completion Criteria: Evaluate each feature and decide which type of tests would be needed for the feature whether it be API test, System Test, Unit Test, Integration Test.
 - **Success and Failure Cases: (5 Story Points)**
 - Completion Criteria: Describe the Success and Failure Scenarios of the Tests of each feature
 - **Test Plan Final Edits (1 Story Points)**
 - Completion Criteria: Edit and Finalize the Test Plan in preparation to submit it with the other Milestone documents

- Finish Network Diagram

Story Points	Internal Due Date	External Due Date	Priority
18	10/26	10/27	3

- Christian:

- **Edit the existing Network Diagram (6 Story Points)**
 - Completion Criteria: Read over and edit the existing Network Diagram and correct any errors found.
- **Use feedback from client to edit Network Diagram (6 Story Points)**
 - Completion Criteria: Altering the Network Diagram according to the client's specifications.
- **Finalize the Network Diagram (6 Story Points)**
 - Completion Criteria: Final product of the Network Diagram is ready to show to the client.

Sprint 5 10/27 -11/11

Estimated Team Story Point Capacity

Curtis	Brayan	Christian	Miguel	Spencer	Total
15	16	12	13	15	71

- Revise BRD

Story Points	Internal Due Date	External Due Date	Priority
18	11/09	12/7	1

- Spencer (Primary) & Miguel (Secondary):
 - **Revise Dependencies (6 story points)**
 - Completion Criteria: Dependency of features addresses if the user needs to be logged in to access them
 - **Implement Success and Failure Scenarios (6 story points)**
 - Completion Criteria: Success and Failure Scenarios are added to functional requirements to show how the features must behave
 - **Revise Non Functional and Functional Requirements (6 story points)**
 - Completion Criteria: Revise non functional requirements to ensure they address readability, usability, maintainability, security and scalability of the application and ensure all functional requirements are listed

- Revise High Level Design

Story Points	Internal Due Date	External Due Date	Priority
18	11/09	12/7	2

- Curtis(Primary) & Brayan (Secondary):

- **Address Software back end architecture (6 story points)**

- Completion Criteria: Both partners will review the High Level design together and make the necessary changes to the software back end to be able to address complaints from client on this topic

- **Address Application Specifics (6 story points)**

- Completion criteria: Both partners will review the High Level design together and make the necessary changes to the high level design to be able to address complaints from client on not including application specifics

- **Final High Level Design edits (6 story points)**

- Completion Criteria: Both partners will contribute to a document to address all complaints from client

- Start LLD for Archiving

Story Points	Internal Due Date	External Due Date	Priority
16	11/09	12/7	3

- Curtis

- **Gather Research for Low Level Design(2 story points)**

- Completion criteria: Both partners must read and take notes on at least 3 resources or websites

- **Select a format or outline (4 story points)**

- Completion Criteria: Must have researched possible outlines and have agreed to utilize one.

- **Begin formatting the low level design(4 story points)**

- Completion Criteria: Utilize sufficient information on how to correctly create a skeleton document for low level design

- **Draft the Low Level Design. (6 story points)**

- Completion Criteria: Both partners will contribute to a document with the foundational information necessary for the low level design.

- Start LLD for UM

Story Points	Internal Due Date	External Due Date	Priority
--------------	-------------------	-------------------	----------

16	11/09	12/7	4
----	-------	------	---

- Spencer:
 - **Gather Research for Low Level Design(2 story points)**
 - Completion criteria: Both partners must read and take notes on at least 3 resources or websites
 - **Select a format or outline (4 story points)**
 - Completion Criteria: Must have researched possible outlines and have agreed to utilize one.
 - **Begin formatting the low level design(4 story points)**
 - Completion Criteria: Utilize sufficient information on how to correctly create a skeleton document for low level design
 - **Draft the Low Level Design. (6 story points)**
 - Completion Criteria: Both partners will contribute to a document with the foundational information necessary for the low level design.
- Start LLD for Logging

Story Points	Internal Due Date	External Due Date	Priority
16	11/09	12/7	5

- Brayan:
 - **Gather Research for Low Level Design(2 story points)**
 - Completion criteria: Both partners must read and take notes on at least 3 resources or websites
 - **Select a format or outline (4 story points)**
 - Completion Criteria: Must have researched possible outlines and have agreed to utilize one.
 - **Begin formatting the low level design(4 story points)**
 - Completion Criteria: Utilize sufficient information on how to correctly create a skeleton document for low level design
 - **Draft the Low Level Design. (6 story points)**
 - Completion Criteria: Both partners will contribute to a document with the foundational information necessary for the low level design.
- Start LLD for Authentication

Story Points	Internal Due Date	External Due Date	Priority
--------------	-------------------	-------------------	----------

16	11/09	12/7	6
----	-------	------	---

- Miguel:
 - **Gather Research for Low Level Design(2 story points)**
 - Completion criteria: Both partners must read and take notes on at least 3 resources or websites
 - **Select a format or outline (4 story points)**
 - Completion Criteria: Must have researched possible outlines and have agreed to utilize one.
 - **Begin formatting the low level design(4 story points)**
 - Completion Criteria: Utilize sufficient information on how to correctly create a skeleton document for low level design
 - **Draft the Low Level Design. (6 story points)**
 - Completion Criteria: Both partners will contribute to a document with the foundational information necessary for the low level design.
- Start LLD for Authorization

Story Points	Internal Due Date	External Due Date	Priority
16	11/09	12/7	7

- Christian:
 - **Gather Research for Low Level Design(2 story points)**
 - Completion criteria: Both partners must read and take notes on at least 3 resources or websites
 - **Select a format or outline (4 story points)**
 - Completion Criteria: Must have researched possible outlines and have agreed to utilize one.
 - **Begin formatting the low level design(4 story points)**
 - Completion Criteria: Utilize sufficient information on how to correctly create a skeleton document for low level design
 - **Draft the Low Level Design. (6 story points)**
 - Completion Criteria: Both partners will contribute to a document with the foundational information necessary for the low level design.

Sprint 6 11/12 - 12/14

Estimated Team Story Point Capacity

Curtis	Brayan	Christian	Miguel	Spencer	Total
--------	--------	-----------	--------	---------	-------

22	21	18	20	26	107
----	----	----	----	----	-----

- Automated Test Tech Approval

Story Points	Internal Due Date	External Due Date	Priority
3	12/14	12/15	1

- Miguel:

- **Continue editing and improving the tech approval (2 story points)**
 - Completion criteria: Team members talk with other team members and use feedback and/or input to improve the tech approval.
- **Attend office hours whenever possible to gain insight on tech approval (1 story points)**
 - Completion Criteria: Team members ask questions and record feedback given by the client in order to improve the tech approval.

- Complete and Implement Archiving LLD

Story Points	Internal Due Date	External Due Date	Priority
30	12/14	12/15	2

- Curtis:

- **Complete LLD (10 story points)**
 - Completion criteria: Talk with other team members and use feedback and/or input to improve the LLD.
- **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
- **Write code base (15 story points)**
 - Completion Criteria: Implements everything in the LLD and requirements from BRD.
- **Run test cases (3 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- **Integrate with project code (1 story points)**
 - Completion Criteria: Successfully integrate with the rest of the project code and debug any potential errors that comes with the integration.

- Complete and Implement UM LLD

Story Points	Internal Due Date	External Due Date	Priority
30	12/14	12/15	3

- Spencer:
 - **Complete LLD (10 story points)**
 - Completion criteria: Talk with other team members and use feedback and/or input to improve the LLD.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Write code base (15 story points)**
 - Completion Criteria: Implements everything in the LLD and requirements from BRD.
 - **Run test cases (3 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
 - **Integrate with project code (1 story points)**
 - Completion Criteria: Successfully integrate with the rest of the project code and debug any potential errors that comes with the integration.
- Complete and Implement Logging LLD

Story Points	Internal Due Date	External Due Date	Priority
30	12/14	12/15	4

- Brayan:
 - **Complete LLD (10 story points)**
 - Completion criteria: Talk with other team members and use feedback and/or input to improve the LLD.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Write code base (15 story points)**
 - Completion Criteria: Implements everything in the LLD and requirements from BRD.
 - **Run test cases (3 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
 - **Integrate with project code (1 story points)**

- Completion Criteria: Successfully integrate with the rest of the project code and debug any potential errors that comes with the integration.

- Complete and Implement Authentication LLD

Story Points	Internal Due Date	External Due Date	Priority
30	12/14	12/15	5

- Miguel:
 - **Complete LLD (10 story points)**
 - Completion criteria: Talk with other team members and use feedback and/or input to improve the LLD.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Write code base (15 story points)**
 - Completion Criteria: Implements everything in the LLD and requirements from BRD.
 - **Run test cases (3 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
 - **Integrate with project code (1 story points)**
 - Completion Criteria: Successfully integrate with the rest of the project code and debug any potential errors that comes with the integration.

- Complete and Implement Authorization LLD

Story Points	Internal Due Date	External Due Date	Priority
30	12/14	12/15	6

- Christian:
 - **Complete LLD (10 story points)**
 - Completion criteria: Talk with other team members and use feedback and/or input to improve the LLD.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Write code base (15 story points)**
 - Completion Criteria: Implements everything in the LLD and requirements from BRD.

- **Run test cases (3 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.2
- **Integrate with project code (1 story points)**
 - Completion Criteria: Successfully integrate with the rest of the project code and debug any potential errors that comes with the integration.

Sprint 7 01/20 - 02/03

Estimated Team Story Point Capacity

Curtis	Brayan	Christian	Miguel	Spencer	Total
15	15	15	15	15	75

- Begin UI Login Implementation

Story Points	Internal Due Date	External Due Date	Priority
12	02/02	02/03	1

- Miguel:
 - **Gather Research for UI implementation (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites
 - **Begin coding UI implementation (7 story points)**
 - Completion Criteria: Code is written that relates to creating the UI for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Begin UI Main Page Implementation

Story Points	Internal Due Date	External Due Date	Priority
12	02/02	02/03	2

- Spencer:
 - **Gather Research for UI implementation (2 story points)**

- Completion criteria: Read and take notes on at least 3 resources or websites
 - **Begin coding UI implementation (7 story points)**
 - Completion Criteria: Code is written that relates to creating the UI for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **(2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Begin UI Admin Implementation

Story Points	Internal Due Date	External Due Date	Priority
12	02/02	02/03	3

- Brayan:
 - **Gather Research for UI implementation (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites
 - **Begin coding UI implementation (7 story points)**
 - Completion Criteria: Code is written that relates to creating the UI for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Begin UI Schedule Implementation

Story Points	Internal Due Date	External Due Date	Priority
12	02/02	02/03	4

- Christian:
 - **Gather Research for UI implementation (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites
 - **Begin coding UI implementation (7 story points)**

- Completion Criteria: Code is written that relates to creating the UI for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Begin UI Rewards Implementation

Story Points	Internal Due Date	External Due Date	Priority
12	02/02	02/03	5

- Curtis:
 - **Gather Research for UI implementation (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites
 - **Begin coding UI implementation (7 story points)**
 - Completion Criteria: Code is written that relates to creating the UI for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

Sprint 8 02/04 - 02/16

Estimated Team Story Point Capacity

Curtis	Brayan	Christian	Miguel	Spencer	Total
15	15	15	15	15	75

- Node DAR

Story Points	Internal Due Date	External Due Date	Priority
16	02/15	02/16	1

- Spencer:

- **Gather Research for DAR(2 story points)**
 - Completion criteria: must read and take notes on at least 3 resources or websites
 - **Select a format or outline (4 story points)**
 - Completion Criteria: Must have researched possible outlines and have selected one.
 - **Begin formatting the DAR(4 story points)**
 - Completion Criteria: Utilize sufficient information on how to correctly create a skeleton document for DAR
 - **Submit for approval. (6 story points)**
 - Completion Criteria: document is completed to full extent of first draft and is submitted to professor for approval
- Selenium DAR

Story Points	Internal Due Date	External Due Date	Priority
5	02/15	02/16	2

- Miguel:
 - **Edit DAR(4 story points)**
 - Completion Criteria: Utilize feedback from previous submittal to edit and complete DAR for approval
 - **Submit for approval. (1 story points)**
 - Completion Criteria: document is completed to full extent of first draft and is submitted to professor for approval
- Azure DAR

Story Points	Internal Due Date	External Due Date	Priority
5	02/15	02/16	3

- Chris:
 - **Edit DAR(4 story points)**
 - Completion Criteria: Utilize feedback from previous submittal to edit and complete DAR for approval
 - **Submit for approval. (1 story points)**
 - Completion Criteria: document is completed to full extent of first draft and is submitted to professor for approval
- Begin Authentication Implementation

Story Points	Internal Due Date	External Due Date	Priority
11	02/15	02/16	3

- Curtis:

- **Gather Research for Authentication implementation (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites. Familiarize yourself with code from milestone 3.
- **Begin coding Authorization implementation (7 story points)**
 - Completion Criteria: Code is written that relates to creating the UI for the application.
- **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
- **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

- Begin Authorization Implementation

Story Points	Internal Due Date	External Due Date	Priority
11	02/15	02/26	4

- Brayan:

- **Gather Research for authorization UI implementation (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites. Familiarize yourself with code from milestone 3.
- **Begin coding authorization UI implementation (7 story points)**
 - Completion Criteria: Code is written that relates to creating the UI for the application.
- **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
- **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

- Begin UI Homepage Implementation

Story Points	Internal Due Date	External Due Date	Priority
--------------	-------------------	-------------------	----------

12	02/15	02/16	5
----	-------	-------	---

- Curtis:
 - **Gather Research for UI Homepage (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites
 - **Begin coding UI Homepage (7 story points)**
 - Completion Criteria: Code is written that relates to creating the UI for the application.
- Mapbox Demo

Story Points	Internal Due Date	External Due Date	Priority
12	02/15	02/16	5

- Curtis:
 - **Gather Research for Mapbox (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites
 - **Begin coding Mapbox Demo (7 story points)**
 - Completion Criteria: Code is written that relates to creating the UI for the application.

Sprint 9 02/17 - 03/02

Estimated Team Story Point Capacity

Curtis	Brayan	Christian	Miguel	Spencer	Total
20	15	15	15	15	75

- Begin Rewards System

Story Points	Internal Due Date	External Due Date	Priority
12	03/01	03/02	3

- Spencer:
 - **Gather Research for Rewards Systems (2 story points)**

- Completion criteria: Read and take notes on at least 3 resources or websites. Familiarize yourself with code from milestone 3.
 - **Begin coding Rewards System implementation (8 story points)**
 - Completion Criteria: Code is written that relates to creating the backend code for the Rewards System of the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Begin Search Function

Story Points	Internal Due Date	External Due Date	Priority
12	03/01	03/02	4

- Brayan:
 - **Gather Research for Search Function implementation (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites. Familiarize yourself with code from milestone 3.
 - **Begin coding Search Function implementation (8 story points)**
 - Completion Criteria: Code is written that relates to creating the backend of the Search Function for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Begin Building Capacity Function

Story Points	Internal Due Date	External Due Date	Priority
18	03/01	03/02	5

- Curtis:
 - **Gather Research for UI Homepage (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites

- **Begin coding Building Capacity Function (12 story points)**
 - Completion Criteria: Code is written that relates to creating the Building Capacity function for the application.
 - **Write test cases (2 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Begin Student Wellness Hub implementation

Story Points	Internal Due Date	External Due Date	Priority
11	03/01	03/02	5

- Christian:
 - **Gather Research for Student Wellness Hub (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites
 - **Begin coding Student Wellness Hub (7 story points)**
 - Completion Criteria: Code is written that relates to creating the Student Wellness Hub for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Begin Class Schedule integration

Story Points	Internal Due Date	External Due Date	Priority
12	03/01	03/02	5

- Miguel:
 - **Gather Research for Schedule Integration (2 story points)**
 - Completion criteria: Read and take notes on at least 3 resources or websites
 - **Coding Schedule integration (8 story points)**
 - Completion Criteria: Code is written that relates to creating the schedule integration for the application.
 - **Write test cases (1 story points)**

- Completion Criteria: Test cases are written that account for success and failure cases.
- **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

Sprint 10 03/03 - 03/17

Estimated Team Story Point Capacity

Curtis	Brayan	Christian	Miguel	Spencer	Total
15	12	12	12	12	63

- Continue Developing Rewards System

Story Points	Internal Due Date	External Due Date	Priority
10	03/16	03/17	4

- Spencer:
 - **Continue coding Rewards System implementation (8 story points)**
 - Completion Criteria: Code is written that relates to creating the backend code for the Rewards System of the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Continue Developing Search Function for Application

Story Points	Internal Due Date	External Due Date	Priority
10	03/16	03/17	3

- Brayan:
 - **Continue coding Search Function implementation (8 story points)**
 - Completion Criteria: Code is written that relates to creating the backend of the Search Function for the application.
 - **Write test cases (1 story points)**

- Completion Criteria: Test cases are written that account for success and failure cases.
- **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Continue Developing Building Capacity Function

Story Points	Internal Due Date	External Due Date	Priority
16	03/16	03/17	5

- Curtis:
 - **Continue coding Building Capacity Function (12 story points)**
 - Completion Criteria: Code is written that relates to creating the Building Capacity function for the application.
 - **Write test cases (2 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Continue Developing Student Wellness Hub Implementation

Story Points	Internal Due Date	External Due Date	Priority
9	03/16	03/17	2

- Christian:
 - **Continue coding Student Wellness Hub (7 story points)**
 - Completion Criteria: Code is written that relates to creating the Student Wellness Hub for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Continue Developing Schedule Integration for Account

Story Points	Internal Due Date	External Due Date	Priority
10	03/16	03/17	1

- Miguel:
 - **Coding Schedule integration (8 story points)**
 - Completion Criteria: Code is written that relates to creating the schedule integration for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

Sprint 11 03/17 - 03/25

Estimated Team Story Point Capacity

Curtis	Brayan	Christian	Miguel	Spencer	Total
15	12	12	12	12	63

- Continue Developing Rewards System

Story Points	Internal Due Date	External Due Date	Priority
10	03/24	03/25	4

- Spencer:
 - **Continue coding Rewards System implementation (8 story points)**
 - Completion Criteria: Code is written that relates to creating the backend code for the Rewards System of the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Continue Developing Search Function for Application

Story Points	Internal Due Date	External Due Date	Priority
10	03/24	03/25	3

- Brayan:
 - **Continue coding Search Function implementation (8 story points)**
 - Completion Criteria: Code is written that relates to creating the backend of the Search Function for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

- Continue Developing Building Capacity Function

Story Points	Internal Due Date	External Due Date	Priority
16	03/24	03/25	5

- Curtis:
 - **Continue coding Building Capacity Function (12 story points)**
 - Completion Criteria: Code is written that relates to creating the Building Capacity function for the application.
 - **Write test cases (2 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

- Continue Developing Student Wellness Hub Implementation

Story Points	Internal Due Date	External Due Date	Priority
9	03/24	03/25	2

- Christian:
 - **Continue coding Student Wellness Hub (7 story points)**

- Completion Criteria: Code is written that relates to creating the Student Wellness Hub for the application.
- **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
- **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Continue Developing Schedule Integration for Account

Story Points	Internal Due Date	External Due Date	Priority
10	03/24	03/25	1

- Miguel:
 - **Coding Schedule integration (8 story points)**
 - Completion Criteria: Code is written that relates to creating the schedule integration for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

Sprint 12 04/04 - 04/13

Estimated Team Story Point Capacity

Curtis	Brayan	Christian	Miguel	Spencer	Total
15	12	12	12	12	63

- Continue Developing Rewards System

Story Points	Internal Due Date	External Due Date	Priority
10	04/12	04/13	4

- Spencer:
 - **Continue coding Rewards System implementation (8 story points)**

- Completion Criteria: Code is written that relates to creating the backend code for the Rewards System of the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Continue Developing Search Function for Application

Story Points	Internal Due Date	External Due Date	Priority
10	04/12	04/13	3

- Brayan:
 - **Continue coding Search Function implementation (8 story points)**
 - Completion Criteria: Code is written that relates to creating the backend of the Search Function for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.
- Continue Developing Building Capacity Function

Story Points	Internal Due Date	External Due Date	Priority
16	04/12	04/13	5

- Curtis:
 - **Continue coding Building Capacity Function (12 story points)**
 - Completion Criteria: Code is written that relates to creating the Building Capacity function for the application.
 - **Write test cases (2 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (2 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

- Continue Developing Student Wellness Hub Implementation

Story Points	Internal Due Date	External Due Date	Priority
9	04/12	04/13	2

- Christian:
 - **Continue coding Student Wellness Hub (7 story points)**
 - Completion Criteria: Code is written that relates to creating the Student Wellness Hub for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

- Continue Developing Schedule Integration for Account

Story Points	Internal Due Date	External Due Date	Priority
10	04/12	04/13	1

- Miguel:
 - **Coding Schedule integration (8 story points)**
 - Completion Criteria: Code is written that relates to creating the schedule integration for the application.
 - **Write test cases (1 story points)**
 - Completion Criteria: Test cases are written that account for success and failure cases.
 - **Run test cases (1 story points)**
 - Completion Criteria: Run test cases and debug any errors found in the code.

Product Backlog

The stories in the backlog will have rough estimations for the story points they were assigned and will be better discussed when the time comes to move them into the sprint backlog in the kanban board(Zenhub).

Stories	Story Points	Internal Due Date	External Due Date	Priority
Start Project Plan	21	10/14/21	10/16/21	4

Start Test Plan	18	10/14/21	10/16/21	2
Start Network Diagram	15	10/14/21	10/16/21	3
Finish Project Plan	21	10/26/21	10/27/21	1
Finish Test Plan	18	10/24/21	10/27/21	2
Finish Network Diagram	18	10/26/21	10/27/21	3
Start Low Level Design	16	11/09/21	12/7/21	2
Start Logging	18	11/09/21	12/7/21	4
Revise HL Design	18	11/09/21	12/7/21	1
Start UM	15	11/09/21	12/7/21	3
Submit Tech Approval	12	12/07/21	12/08/21	1
Implement Core Components	14	12/07/21	12/08/21	2
Edit Low Level Design	10	12/07/21	12/08/21	1
Edit UM	10	12/07/21	12/08/21	1
Edit Logging	10	12/07/21	12/08/21	3
Finish Low Level Design	19	12/07/21	12/08/21	3
Finish UM	15	12/07/21	12/08/21	4
Revise Tech Spec	15	12/07/21	12/08/21	6
Finish Logging	17	12/07/21	12/08/21	7
Security	15	12/07	12/08	1
Authorization	15	12/07	12/08	2
Authentication	15	12/07	12/08	3
React-Dar	15	2/13/22	5/1/22	1
MapBox-Dar	15	2/13/22	5/1/22	2
Azure-Dar	15	2/13/22	5/1/22	1
Node-Dar	15	2/13/22	5/1/22	2

Selenium-Dev	15	2/13/22	5/1/22	3
UI	30	02/16/22	5/1/22	4
User Account System (App-Specific)	30	02/27/22	5/1/22	4
Route Generation	30	03/6/22	5/1/22	3
User Surveys	30	03/16/22	5/1/22	4
Quick Find Feature	30	03/25/22	5/1/22	4
Glass-Schedule Integration	30	03/27/22	5/1/22	2
Search Feature	30	03/27/22	5/1/22	3
Privacy	30	04/10/22	5/1/22	4
Rewards System	30	04/17/22	5/1/22	1
Capacity Feature	30	04/17/22	5/1/22	2
Student Wellness Hub	30	04/17/22	5/1/22	3
Usage Analysis Dashboard	15	04/24/22	5/1/22	4
Deployment	30	5/1/22	5/1/22	5