| **Team Name:** | Pod 4 |
| --- | --- |
| **Team Members:** | Mary Klym, Michael Placzek, Fayome Minett, Greg Scheidler |
| **Revision Number** | 1 |
| **Charter Date:** | 11/4/2021 |
| **Project Name:** | Algorithmic Analysis |

**Communications**

| **Regular Meetings** | |
| --- | --- |
| Location: | Discord |
| Dates/Times: | 11/4/2021 @2:30pm  Monday @5pm  Wednesday @5pm |
| **Informal Check-ins** | |
| Medium: | Discord |
| Expected Response Time: | 1-1½ hour(s) |

**Deadlines**

| **Deliverable** | **Date** | **Who will submit** |
| --- | --- | --- |
| Charter | 4/22 | (11/05 @ 11PM) | Mary Klym |
| High-Level Design | 5/2 |  |
| Test Plan | 5/9 | (11/10-  11/15 before 11PM) | Fayome Minett |
| Final Deliverables | 5/21 |  |
| Post Mortem | 5/21 | (individually) |

**Purpose and Scope**

*State the project’s purpose and scope in your own words. You only need one summary paragraph here.*

The purpose of this Algorithm analysis project is to basically capture the time it takes each algorithm to sort data across three data profiles, we will be experimenting with the Bubble sort, Selection sort, Insertion sort, Shell sort, Merge sort, Heap sort and Quick sort, We will be observing the data through randomly distributed data, data that’s already sorted and inversely sorted data. We’re running these sorts so we can see how quickly and efficiently they are being sorted.

**SWOT Analysis**

| **Strengths:** | *What strengths do the members of your team bring to the project?*  Setting up times to meet and get our project completed. Also our great problem solving skills. |
| --- | --- |
| **Weaknesses:** | *What weaknesses may your team need to fill to complete the project?*  Time management, and everyone may not have discord on their phones so they will not get notifications from the group 24/7, and might miss out on some important information. |
| **Opportunities:** | *What opportunities exist for your team to complete this project?*  Learning experiences, more group time/ class time. |
| **Threats:** | *What threats may reduce the likelihood of your success?*  We all have different classes and time schedules, also some of us are async and some are in person. |

**Team Conduct and Participation Expectations**

*Define any expectations for how the team will conduct business and consequences for not meeting expectations.*

* Team members will attend each regular meeting or give 24 hours notice to reschedule and then show up on time as scheduled.
* Everyone must put some type of input/work into this project, and if not they will not get credit for it.
* If the majority of the group agrees to exclude a member of the group because of lack of work, they will get removed.
* Team members will solicit and respect the feedback from other team members. Listening to others is not merely hearing ideas but considering their worth independent of your opinions.
* Any date you choose to turn something in, you must do it. If not you get a 2 hour grace period until another team member does it and you do not get credit for that assignment.

***Agreement and Signatures***

You must personally attach your name to this document as an agreement to its contents and represents your willingness to live by the included rules. This is a living document that the team can agree to modify at any time, but not living up to or changing in this document may mean I do not get credit for the project work and any associated implications towards my final grade.

*Include each team member’s name and the date of agreement here.*

Mary Klym (11/4/2021)

Greg Scheidler (11/4/2021)

Fayome Minett (11/4/2021)

Michael Płaczek (11/4/2021)