**Implementation (Alpha Version) – 35 points**

**Submission**

1. Due date: **Monday,** **Dec. 9 by 11:59pm**
2. You MUST use the final report template provided on Canvas. **-2 points** if you don’t.
3. Submit (a) the final report, (c) the Alpha version of your system, and (c) the team report, to Canvas or the repository. **-2 points** for not submitting the team report.

**Requirement**

1. You must submit runnable source code of your system (the first testable release.) If your system is not running, you will **lose 25 points**.
2. Programming style. You MUST follow the rules below. **You lose 1 point for each violation, up to 1/3 of the total points earned** for this deliverable.
   * Have a comment block on top of each method you implemented.
   * Use descriptive names for all variables, attributes, and methods.
   * No magic numbers! Do not use any constants directly in your code. You must define a name for every constant used.
   * Have proper indentations, so it’s easier to read the code.
3. You must write a final report for your software project. **You must download and use the template provided on Canvas**. You must include the following items in the report.
   * Section 1 – a table that shows the system requirements and the percentage accomplished.
   * Section 2 – the instructions for building and running the software project.
   * Section 3 – bug report that itemizes know issues of your system.
   * Section 4 – screen shots of your system in action. Make sure the screen shots are clear and viewable. In addition, add enough text to explain the screen shots.
   * Section 5 – project metrics. Use “Understand” as a tool and run analysis on your software system. You must include the following items.
     + Project metrics.
     + Dependency graph
     + Class diagram
4. Grading

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| --- | --- | --- | --- |
| **Expectation** | **Meet** | **Does not Meet** | **Missing** |
| * The requirements in SRS have been fully implemented. * Source code is following the required programming style. | 25 | 9 | 0 |
| The final report is well organized and includes all required items. | 10 | 5 | 0 |
| Total | 35 |  |  |