**Project Plan**

Group 2:

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CMSC 495 63802

**Author Note:**

Revision 2.0

Date: 09/02/2018

**Revision History**

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| --- | --- | --- | --- |
| Revision Number | Date | Editor | Description |
| 1.0 | 08/31/2018 | William Rios Crespo | Creation of original document |
| 2.0 | 08/31/2018 | John Abueg,  Josh Kerley | Review |
| 3.0 | 09/02/2018 | John, William, Michael, Josh | Revise document for submission |
| 4.0 | 9/08/2018 | Michael | Update Project Schedule |

# PROJECT PLAN

1. **Requirement Specifications**
2. Using NetBeans or Eclipse, group #2 will develop a Java application that generates a grade calculator that calculates a total score for a class based on grades and weighted averages supplied by the user. The app should have the following project functional requirements:

* Accept assignment names, weight, and grade.
* Save accepted inputs.
* Load saved data.
* Calculate grade based on provided data.
* Do NOT accept letter grades and invalid inputs such as special characters.
* Display maximum, minimum, mean, median, and standard deviation scores.
* Offer ‘what if’ scenarios to calculate hypothetical grades.

1. Java source code will be develop adopting the conventional Google Java style guide.
2. Create a test plan that examine the functionality of the application.
3. **Requirement Specifications**
4. Development platform with minimum hardware and software configurations:

* 800MHz Intel Pentium III or equivalent; 512 MB memory; 750 MB of free disk space; Windows 7 or Windows 10; NetBeans; JDK 7 or JDK 8; Java SE 7 or Java SE 8.
* 1.8GHz dual-core Intel Core i5; 8GB memory; 128GBof free disk space; Mac OS X; Eclipse; Java 8 JRE/JDK.

1. Operating platform:

* 800MHz Intel Pentium III or equivalent; 512 MB memory; 750 MB of free disk space; Windows 7 or Windows 10; JDK 7 or JDK 8; Java SE 7 or Java SE 8.
* 1.8GHz dual-core Intel Core i5; 8GB memory; 128GBof free disk space; Mac OS X; Java 8 JRE/JDK.

1. **Software Management**

Group #2 will utilize GitHub as a version-controlled software to provide availability to group members by providing copies of the application in parallel while retaining the baseline configuration as the main trunk. Therefore, subsequent copies of the file are designated as branches which allows backward compatibility to old design if needed.

1. **Project Schedule**

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| --- | --- | --- | --- | --- |
| **Task** | **Duration (days)** | **Start Date** | **End Date** | **Personnel** |
| 1. Project Requirements 2. Writing 3. Self Review 4. Revise document for submission | 7 4 2 1 | 08/27 08/27 08/31 09/02 | 09/02 08/30 09/01 09/02 | Michael, William Josh, John Michael, William, Josh, John |
| 1. Project Analysis 2. Analyzing 3. Self Review 4. Peer review project requirements & project plan 5. Revise document for submission | 7 4 1 1 | 09/03 09/03 09/07 09/08  09/09 | 09/09 09/06 09/07 09/08  09/09 | Josh, John Michael, William Michael, William, Josh, John  Michael, William, Josh, John |
| 1. Project Design 2. Project Design 3. Self Review 4. Peer review project analysis 5. Revise document for submission 6. Input 7. GUI 8. Calculator 9. File | 7 4 1 1 1  7  7  7  7 | 09/10 09/10 09/14 09/15 09/16  9/10  9/10  9/10  9/10 | 09/16 09/13 09/14 09/15 09/16  09/16  09/16  09/16  09/16 | Michael, William, Josh, John Josh, John Michael, William, Josh, John Michael, William, Josh, John  Michael  William  Josh  John |
| 1. Project test plan and ICD 2. Project test plan & ICD 3. Self Review 4. Peer review project design 5. Revise document for submission | 7 4 1 1 1 | 09/17 09/17 09/21 09/22 09/23 | 09/23 09/20 09/21 09/22 09/23 | Michael, William, Josh, John Michael, William Michael, William, Josh, John Michael, William, Josh, John |

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| 1. Implementation and Testing 2. Implementation and Testing 3. Self Review 4. Peer review project test plan & ICD 5. Revise document for submission 6. Input 7. GUI 8. Calculator 9. File | 7 4 1 1  1  7  7  7  7 | 09/24 09/24 09/28 09/29 09/30  09/24  09/24  09/24  09/24 | 09/30 09/27 09/28 09/29 09/30  09/30  09/30  09/30  09/30 | Michael, William, Josh, John Josh, John Michael, William, Josh, John  Michael, William, Josh, John  Michael  William  Josh  John |
| 1. Final Deliveries 2. Code 3. Test Data 4. User’s Guide 5. Self Review 6. Final peer review 7. Revise document for submission | 16 9 2 1 1 1 1 | 09/31 09/31 10/9 10/11 10/12 10/13 10/14 | 10/14 10/08 10/10 10/11 10/12 10/13 10/14 | Michael, William, Josh, John Michael, William, Josh, John Michael, William Josh, John Michael, William, Josh, John Michael, William, Josh, John |