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| --- | --- |
| **The Link Your Class** | <https://bbs.csdn.net/forums/MUEE308FZ?category=0> |
| The Link of Requirement of This Assignment | <https://moodle.maynoothuniversity.ie/mod/assign/view.php?id=269332> |
| MU STU ID and FZU STU ID | 19103182\_831901230 |
| Teammate's MU STU ID and FZU STU ID | 19104081\_831901229  19103565\_831901228  19105037\_831901202  19104251\_831901213 |
| GitHub link |  |

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**1.GitHub Repository**

**2.PSP Form**

|  |  |  |
| --- | --- | --- |
| PSP Stages | Estimated Time /minutes | Completed Time/minutes |
| Planning | 10 | 5 |
| Time Estimation | 10 | 10 |
| Development | 100 | 70 |
| Requirement Analysis | 10 | 10 |
| Design Documents | 20 | 20 |
| Design Review | 5 | 5 |
| Code Specification | 5 | 5 |
| Specific Design | 40 | 40 |
| Specific Coding | 30 | 30 |
| Code Review | 5 | 5 |
| Test | 20 | 20 |
| Test Report | 30 | 30 |
| Calculation Workload | 15 | 15 |
| Summary&Improvement | 5 | 5 |
| Total | 305 | 275 |

**3.the division of responsibilities of team members**

Yang Shunqing is responsible for Specific Design .Chen yue is in charge of Code verification .Zhu Zheyi and Fang Zelong are responsible for build the front . Finally ，Zhang Zongyue is responsible for the writing of the report.

**4.the program running environment**

After a heated discussion, we decided to use c++ to accomplish this task.

**5.Function Demonstration**

**6. 3 events that take a long time**

1.Team programming Everyone is good at different programming methods and coding habits  .

2.Time is too short to perfect the software.

3.The first team programming was not tacit, and there was a deviation in thinking.

**7.Team programming experience**

1. It has improved my communication ability and cooperation ability with my teammates, and the division of labor and cooperation between us is more clear. When we encounter difficulties, we can solve them together, not just finish our own work as before.
2. This work also enhanced my ability to write code. I learned how to use wechat developer tools to write small programs, and have some depth understanding about it.
3. In the end, I feel some deficiencies. I want to achieve the effect I want to achieve, but I find the knowledge reserve in all aspects is far from enough. Therefore, I hope I can make more efforts in the future and finally achieve the effect I am satisfied with.