Cover page:

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| --- | --- | --- |
| Tyler Allen | 249931 | 50% |
| Kamran Haque | 247639 | 50% |

Development log:

01/11/2022 – Read over project – 1 hour | 249931 247639 |

02/11/2022 – Began to plan the project – 1 hour | 249931 247639 |

03/11/2022 – Rough plan finished – 1 hour | 249931 247639 |

05/11/2022 – Created the classes we used – 1 hour | 249931 – Observer 247639 - Driver |

06/11/2022 – Worked on contents of the classes – 3 hours | 249931 – Observer 247639 - Driver |

08/11/2022 – Continued to work on contents of the classes – 2 hours | 249931 – Observer 247639 - Driver |

10/11/2022 – Finished first draft of the contents of the classes – 2 hours | 249931 247639 |

11/11/2022 – Researched threading – 2 hours | 249931 - Driver 247639 - Observer |

12/11/2022 – Initiated threading into the project – 3 hours | 249931 – Observer 247639 - Driver |

13/11/2022 – Finished making the program thread-safe – 3 hours | 249931 – Observer 247639 - Driver |

14/11/2022 – Finished off second draft of the contents of the classes – 2 hours | 249931 247639 |

15/11/2022 – Went back and improved on code – 1 hour | 249931 247639 |

16/11/2022 – Continued to work on improving the code through efficiency and design – 2 hours | 249931 247639 |

17/11/2022 – Researched Junit testing – 3 hours | 249931 - Driver 247639 |

18/11/2022 – Started Junit testing – 4 hours | 249931 – Driver/Observer 247639 – Driver/Observer |

19/11/2022 – Finished Junit testing – 3 hours | 249931 – Driver/Observer 247639 – Driver/Observer |

20/11/2022 – Went over code layout again and improved where necessary – 2 hours | 249931 247639 |

21/11/2022 – Commented on all the code to make it clear what we did – 1 hour | 249931 - Observer 247639 - Driver |

22/11/2022 – Went over project again to check everything – 1 hour | 249931 247639 |

23/11/2022 – Final checks and finishing comments – 2 hours | 249931 247639 |

Report on production code and performance issues:

Initially, when we started the project we went for a first draft of the project where we