Contribution Scale:

1. **Preliminary/One-off**: worked on early testing or other one-off changes.
2. **Minor**: worked on small changes occasionally for most of the project duration.
3. **Significant**: between Major and Minor contributors. Closer to the Major end?
4. **Major**: main contributor, key contact for changes/assistance.

Code Repository Link: <https://github.com/TrebleStick/MailBot>

Ryan (rsa115):

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| **#** | **Contribution** | **Scale** | **Code/Files/Details** |
| 1 | ROS Package Setup | Preliminary | Assisted Adel in early installation and setup of packages. Including: package specific calibrations and config files.   * **MailBot/movement/catkin\_ws/src/mailbot/config** |
| 2 | ROS Mapping | Significant | Handled map creation and evaluation (with Adel). Established necessary transforms and sensor setup for effective mapping.   * Actual RTAB-MAP map database (.db) not stored in the repository due to its large file size |
| 3 | ROS Navigation | Significant | Handled the creation and refinement (with Adel) of navigation. Subsequently investigated and implemented alternative navigation parameters (such as those suggested in public repositories) to investigate performance.   * **MailBot/movement/catkin\_ws/src/mailbot/launch/ nav.launch & nav2.launch**: And these script dependencies. nav2.launch are the alternative parameters investigated. |
| 4 | Route Planning | Major | Handled researching and implementing a Travelling Salesman problem solver to produce an intelligent route. Some testing and planning for dynamic updating unused in final project due to prioritising time   * **MailBot/movement/catkin\_ws/src/mailbot/Scripts:** tspSolver.Py is the final version. Relies on weights.csv in * **MailBot/movement/EarlyTspTesting:** Some early testing of different solvers * **MailBot/movement/catkin\_ws/src/mailbot/config:** Weights.csv used to provide arbitrary costs for solving the route |
| 5 | Integration | Major | Handled bi-directional communication between Bluetooth node of the interface and the navigation stack to provide correct goals at the right time and give the interface feedback on current state.   * **MailBot/movement/catkin\_ws/src/mailbot/Scripts:** locationQueueMoveBase.Py is the final version. |
| 6 | Design Report | Significant | Proof read.  Contributed to many sections, primarily  Sections: 3,4, 4.1, 4.2, |
| 7 | Final Report | Significant | Sections: 4.2,4.2.3 | 6.3 | 7.2.1, 7.2.2  Figure 5  GitHub Documentation and Tidying |