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>

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| **#** | **Contribution** | **Scale** | **Code/Files/Details** |
| 1 | Interface – UX | Significant | * Aided with the development of the XML Layouts. * Created and integrated Dialog Fragment for user to quickly select another mail item to send to the same recipient.   + *collection\_activity\_end\_dialog.xml*   + *collection\_activity\_end.xml* * Developed interactive elements of the interface, including buttons and dropdown lists, in activities.   + *Specific layout files can be found here* |
| 2 | Interface – Functionality | Major | * Main contributor to Java code for each activity in the collection and delivery modes. Designed each activity to have a distinct purpose such as collecting data from the user or requesting that a locker is opened.   + *Java files for collection mode activities found* [*here*](https://github.com/TrebleStick/MailBot/tree/master/interface/mailbot/app/src/main/java/com/extcord/jg3215/mailbot/collection_mode)   + *Java files for delivery mode activities found* [*here*](https://github.com/TrebleStick/MailBot/tree/master/interface/mailbot/app/src/main/java/com/extcord/jg3215/mailbot/delivery_mode) * Integrated access and use of the Bluetooth connection throughout the application   + *BluetoothConnectionService.java* |
| 3 | Algorithm Design | Major (with Javi) | * Defining the processes and functions for the application to perform. * Created random PIN code generator for each locker. * Coordinated locker to open allocation and determining when all lockers of a single size were full. |
| 4 | Data Handling | Major | * Created objects for manipulating data and providing event cues throughout the application.   + *StopWatch.java*   + *PackageData.java*   + *LockerManager.java* * Used and implemented Room persistence (database) to store data associated with each locker, such as PIN code, for use during delivery mode and sending emails.   + *Database files can be found* [*here*](https://github.com/TrebleStick/MailBot/tree/master/interface/mailbot/app/src/main/java/com/extcord/jg3215/mailbot/database) |
| 5 | Interface-to-ROS connectivity | Major | * Successfully established a Bluetooth connection between the application and the PC with Adel and Javi. * Wrote the initial versions of the Python script that establishes a connection between the interface and PC and then communicates data between the two.   + *btAppTest.py* * Tested commands sent to and received from ROS via Bluetooth with Koral. |
| 6 | Design Report | Significant | * Proof reading and error checking the report. * Notable contributions to the following sections: 2, 5, 6 and the figures referenced in 7.3. |
| 7 | Final Report | Significant | * Extensive proof reading and error checking throughout the report. * Notable contributions to the following sections: Abstract, 4.3, 5, 6.1, 6.4 and 7.3. |