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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 | Major | * Design and development of the XML Layouts for the interface. * Design of the branding of MailBot (i.e. logo for the video, MailBot’s face, colours & fonts…). * High-level decision maker for the human interaction (style and level of involvement). * *Files:*    + *collection\_activity\_details.xml*   + *collection\_activity\_end.xml*   + *collection\_activity\_end\_dialog.xml*   + *collection\_activity\_locker.xml*   + *collection\_activity\_main.xml*   + *delivery\_activity\_enroute.xml*   + *delivery\_activity\_openlocker.xml*   + *delivery\_activity\_password.xml*   + *delivery\_activity\_unsuccessful.xml* |
| 2 | Interface – Functionality | Significant | * Development of the Java files describing the behavior of each step of the robot’s mission. * Major involvement in e-mail related code (files eMailService and JSSEProvider, and e-mail implementation in many other activities). * Significant involvement in all collection\_mode, delivery\_mode and database activities, and in LockerManager. * Minor work in Bluetooth implementation. |
| 3 | Algorithm Design | Major (with Ife) | **Major involvement:**   * Main functionality: Ideation and implementation of the different modes (collection/delivery) and the sub-processes within them. * Security: Password (PIN) security system. * Customer communications: E-mail.   **Minor involvement:**   * Locker allocation algorithm. |
| 4 | Interface-to-ROS connectivity | Significant | * Unsuccessfully attempted to implement serial communications between the tablet and the computer for around a week using usb-serial-for-android library. * This was later discarded in favour of Bluetooth communications, due to difficulty and because having a cable connecting the tablet and the laptop was not practical. |
| 5 | Data Handling | Minor | * Helped Ife with the data packages with the creation of mail item details (sender and recipient name/address, delivery location…) and with their implementation. |
| 6 | Demonstration Video | Major | * **Minor:** Footage acquisition – I recorded some MailBot videos but many of the footage was sent to me by Adel, Jack, Ife and Callum. * **Major:** Ideation, screenwriting, dubbing, production and video editing. Video upload to YouTube and subtitling. |
| 7 | Design Report | Significant | Proof read.  Sections: Abstract (minor involvement), contributed to section 1, 4, 4.3, 7.3.  Figure Creation: (Fig 1, 4, 5, 6, 7)  Initial concept design of the fully integrated prototype, and sketching of the system diagram. |
| 8 | Final Report | Significant | Proof read.  Sections: Abstract, rewrote section 1, contributed to 4.3, 5 and wrote section 8.  Figure Creation (Fig 2, 3)  Github: Initial description in the readme file and link to demo video. |