**Project Phase2 Work Load**

**Team Name: 1-4\_T14 Number of members: 3**

**Team Email: ossamamostafa5@gmail.com**

**Members’ Info:**

|  |  |  |
| --- | --- | --- |
| **Member Name** | **ID** | **Email** |
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**Work Load Division:**

|  |  |  |
| --- | --- | --- |
| **List Name** | **DS** | **Justification** |
| Mission Types (for Mountainous and Polar) | Queue | First Come First Serve, Insertion and Deletion in O(1) |
| Emergency Missions | Priority Queue | Priority according to priority equation. |
| Rover List | Priority Queue | Priority according to remaining missions till next check-up & speed of rovers. Insertion and deletion in O(log n) |
| In-Execution (for each mission type) | Priority Queue | Priority based on closest completion time. Insertion and deletion in O(log n) |
| Completed Missions | Queue | Insertion and deletion O(1) |
| Check-up Rovers | Queue | Insertion and deletion O(1) |
| Events List | Queue | First Come First Serve, Insertion and Deletion in O(1) |

* **No list for waiting missions because it will be the same as the mission list for each mission type.**
* **In-Execution missions will be a parameter inside rover as a pointer.**