\section{Project Management}

For project management, we use the scrum method where we divide the time that we have to develop this product into 11 cycles and each cycle takes 1 week. To make it more efficient, we have two minimum meetings in each cycle. In the first meeting, we will discuss and brainstorm together the big task that we need to complete in the cycle. As the result, the sub-tasks are created and distributed fairly among the team members. The second meeting is to verify the current progress and make improvements. Since we use the scrum method, we still help each other in completing each sub-task to ensure the product of each cycle is at its highest and finest quality. Table below shows our task distribution. Figure \ref{github} depict the contribution on our GitHub reprository

|  |  |  |  |
| --- | --- | --- | --- |
| Cycle | Main tasks | Sub Task | Person in charge |
| 1 | Comprehend Verification and Validation Enviroment |  | Every member |
| 2 | Comprehend Deep Learning Environment with fast ai | Understand and run example model | Every member |
| 3 | Use Case specification  Include:   * Use case diagram * Activity diagram * Architecture | Weed detection | Sheikh |
| Diseases detection | Zafirul |
| Navigation sub-system | Amirul |
| Storage sub-system | Ammar |
| Overall System | Abis |
| 4 - 5 | Model and verify the Use Cases | Detection Drone | Sheikh |
| Zafirul |
| Navigation sub-system | Amirul |
| Storage sub-system | Ammar |
| Problem Handler | Abis |
| 6 - 7 | Learn models to be able to identify by using appropriate dl-algorithms  Include:   * Model creation * Training * Evaluation | Resnet 152, 54 | Sheikh |
| Resnet 18, Vgg19 | Zafirul |
| Resnet 54 | Amirul |
| Vgg16 | Ammar |
| Resnet | Abis |
| 8 - 11 | Integrated overall solution including coordinated autonomous vehicles (ready for competition) | Drone | Sheikh |
| Drone optimization | Zafirul |
| Field and image input/output management | Kimi  Ammar |
| Result management for evaluation | Abis |