Unit of Study	COMP3888
Team name	COMP3888_T15A_Group1
Project Name	Optimal Path for Drone Delivery
Project start date	Monday, 14/09/2020
Project end date	Sunday, 29/11/2020
Project point person	Nicholas Hui
Report Date	9/11/2020

Quick description	Adding the weather factor into the algorithm, inserting multiple drones in the simulator, cleaning up the team's repository.

Status item	Status up to last week	Planned for next week
Scope	Modification and improvement of the pathfinding algorithm. Testing method for the algorithm.	Preparation for the group and individual reports and client demo and presentation. Testing of the algorithm with weather factor included.
Time	Keeping on track with the project schedule, but a few problems arise after adding the weather factor.	
Quality	More testing of the algorithm will be needed for the weather-related factor.	
Planned Activities	Bitbucket repository clean up. Generate more test cases for the pathfinding algorithm. Obstacle avoidance feature working in the simulator but not able to implement in the project. Implementation of multiple drone control in the simulator. Started using ROS to launch the simulator environment, allowing for drone starting location to be specified. World modelling for a demo of scenarios from the client's scope	Design more test cases related to different weather conditions. Documentation of the obstacle avoidance features. More testing of the MissionScript. Setting up a new world environment for the client demo and presentation in the simulator.

Achievements	Weather conditions have been taken into considerations in the algorithm design.	
Major deliverables	Weather module added to the algorithm library to get an affected working route of the drone.	
Major issues	Part of the algorithm code needed to be rewritten due to the newly added weather module.	
Major risks	The weather module disturbs the result of the algorithm so that it didn't return our expected path.	
External dependencies	NIL	NIL
Estimated effort (h)	15hr/person	16hr/person
Recorded effort (h)	16hr/person (on average)	
Overall Status (RYG)	GREEN	