**Requirement Document**

Functional requirements:

* Order validation: validate all order data retrieved from server.
* Routing algorithm: provide a valid route for drone to fly to and from the target restaurant, avoiding all no-fly zones and observe the central region policy.
* Output results files in the required forms.
* Retrieve order information from the server.
* Error reporting and always exiting gracefully.
* Malformed server URL handling.
* Maximum runtime no more than 60 seconds.

(only the order validation and the routing algorithm will be tested in this setting)

Measurable quality attributes:

* Routing algorithm efficiency: length of path to the destination and time needed to find a path (runtime).
* Failure rate and dependability. That is, the dependability of the routing algorithm.

Stakeholders:

* Maintenance: data analyst, customers, Drone services (Drone company)
* Restaurants (supplier)
* General Public (residents)
* Regulators: health safety, local authority, CAA
* Environment protection
* Payment system