**Testing Strategy**

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| **Project Name**  TruckDelivery | **Author**  Team Lead |
| **Computing Environment**  Group member’s workstations | **Software Type**  Pathfinding Application |
| **User Demographics**  Truck drivers | **Assumptions**  Users have knowledge of using the application |
| **Purpose of Test**  Verify functionality and search for bugs | **Phases of Testing** |
| **Scope of Testing**  Functionality of data structures.  Shortest route is picked.  Algorithm doesn’t get “stuck”. | **Critical Success Factors**  Source code is functional and tested.  Algorithm is working efficiently.  Input validation working as business logic stated. |
| **Testing Types**  Unit tests  Manual tests  Acceptance tests  Integration tests  White Box tests  Black Box tests  Regression test | **Tester Profiles**  Group members |
| **Development/ Test Tools**  Visual Studio to implement the logics, Git for distribution of all project documents, Jira-Kanban board for team collaboration and MS Teams for team communication. | |
| **Business / Operational Concerns**  Incorrect algorithm implementation creates inefficiencies within business’s distribution network.  Data loss can cause lawsuits.  Risk of client privacy. | |
| **Risks**  **Business**  Data loss or usability concerns cause customer complaints. Risk of privacy loss of client through destination.  Risk of product loss through wrong destination.  **Technical**  Data loss might indicate bigger problems in the project.  **Project**  This needs to be tested before the next phase of development.  Tight scheduling. | |
| **Other**  None. | |