**SOFTWARE SPECIFICATION DOCUMENT**

Main functions of the component:

1. **Allowing transport companies to add new sub location names.**
2. **Mapping sub locations to Existing Locations**
3. **Searching for a location or a sub location according to what the customer has entered**
4. **Add a new sub location**

Costumers out there have a lot of different names that they call locations so this component will allow transport companies to add those locations to the database

1. **Mapping sub locations (names from customers) to existing locations**

Here now the transport companies have the ability to link (Map), (sub locations) the names known by customers to the stored names of locations in the database, this will allow the searching of any location either the one known by customers or the one known by the transport companies.

1. **Search**

The search option of this component is designed to allow user of the system to get a destination location whatever the name input by the user.

1. **URLs to communicate with the component**

Adding a new location: **:**

**41.74.172.132:8080/Aime\_TripHelper/Locations/AddLocation**

Mapping a sub location to a location:

41.74.172.132:8080/Aime\_TripHelper/Locations/LocationsAndSubLoc

Getting all locations with sub locations: 41.74.172.132:8080/Aime\_TripHelper/Locations/LocationsAndSubLoc

Searching a Location using its id:

**41.74.172.132:8080/Aime\_TripHelper/Locations/FindLocation/4**

Searching location using its name : **41.74.172.132:8080/transport\_project/transportService/findPlacement/Kigali**

Searching location using ia sub location name name : **41.74.172.132:8080/transport\_project/transportService/findPlacement/nyabugogo**