

TRANSPORT COMPONENT

Main Functions Of The Component:

- i. Allowing transport companies to add location names.
- ii. Mapping sub locations to Existing Locations
- iii. Find Pattern Matching Similarity Data List
- iv. Searching a place according to what the customer has entered
- v. Get A Location by its id.
- vi. Get A SubLocation by its id.
- vii. Get Location List.
- viii. Get SubLocation List.
- ix. Get One Specific Location with its SubLocation through LocationId.
- x. Get All The Location With SubLocation.
- xi. Get All Data Stored In Database.
- xii. Update A SubLocation.
- xiii. Delete Data from Database.

i. Add A New Location

Customers 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

URL:

POST localhost:8080/TransportApplication/transport/addnewlocation

Example:

<LOCATION>

<LOCATIONNAME>KIGALI</LOCATIONNAME>

</LOCATION>

ii. 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.

URL: localhost:8080/TransportApplication/transport/mapsublocation

Example:

<SUBLOCATION>

<LOCATIONID>1</LOCATIONID>

<SUBLOCATIONNAME>KIGALI</SUBLOCATIONNAME>

</SUBLOCATION>

iii. Pattern Matching Search

The search option of this component is designed to allow user to get the list of data from database by matching the percentage of input place name and already available place name.

GET URL: localhost:8080/TransportApplication/transport/patternsearch/{placename}

Example: O/P

localhost:8080/TransportApplication/transport/patternsearch/nyabuhg

<?xml version="1.0" encoding="UTF-8"?>

<LOCATION>

 <LOCATIONNAME>KIGALI</LOCATIONNAME>

 <SUBLOCATIONNAME>NYABUGOGO</SUBLOCATIONNAME>

 <LOCATIONNAME>KIGALI</LOCATIONNAME>

 <SUBLOCATIONNAME>NYABUGOGO</SUBLOCATIONNAME>

</LOCATION>

iv. Normal Search

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

GET URL: localhost:8080/TransportApplication/transport/search/{placename}

Example:O/P

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<LOCATION>
```

```
    <LOCATIONNAME>KIGALI</LOCATIONNAME>
```

```
    <SUBLOCATIONNAME>REMER</SUBLOCATIONNAME>
```

```
</LOCATION>
```

iv. Get A Location By Id

The Get option of this component is designed to allow user to find the location through the already know locationId.

URL: localhost:8080/TransportApplication/transport/getlocation/{locationId}

Example:O/P

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<LOCATION>
```

```
    <LOCATIONID>3</LOCATIONID>
```

```
    <SUBLOCATIONID>GISEYNI</SUBLOCATIONID>
```

```
</LOCATION>
```

V. Get A SubLocation By Id

The Get Sublocation by id option of this component is designed to allow user to find the SubLocation through the already know subLocationId.

URL: localhost:8080/TransportApplication/transport/getsublocation/{subLocationid}

Example:O/P

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<SUBLOCATION>
```

```
    <SUBLOCATIONID>3</SUBLOCATIONID>
```

```
    <SUBLOCATIONNAME>DD</SUBLOCATIONNAME>
```

```
</SUBLOCATION>
```

vi.Get Location List

The get Location by id option of this component is designed to allow user to find the location list.

URL: localhost:8080/TransportApplication/transport/locationlist

Example: O/P

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<LOCATIONLIST>
```

```
    <LOCATION>KIGALI</LOCATION>
```

```
    <LOCATION>BUTARE</LOCATION>
```

```
    <LOCATION>GISEYNI</LOCATION>
```

</LOCATIONLIST>

vii.Get SubLocationList

The GetSubLocationList option of this component is designed to allow user to find the SubLocation list.

GET URL: localhost:8080/TransportApplication/transport/sublocationlist

Example: O/P

<?xml version="1.0" encoding="UTF-8"?>

<SUBLOCATIONLIST>

<SUBLOCATION>REMER</SUBLOCATION>

<SUBLOCATION>SS</SUBLOCATION>

<SUBLOCATION>DD</SUBLOCATION>

<SUBLOCATION>FF</SUBLOCATION>

<SUBLOCATION>GG</SUBLOCATION>

<SUBLOCATION>HH</SUBLOCATION>

</SUBLOCATIONLIST>

viii. Get One Specific Location with its SubLocation

The option of this component is designed to allow user to find the specific location with all of its sub location.

URL: localhost:8080/TransportApplication/transport/addnewlocation

Example: O/P

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<LOCATION>
```

```
    <LOCATIONNAME>KIGALI</LOCATIONNAME>
```

```
    <SUBLOCATION>
```

```
        <SUBLOCATIONNAME>REMERAR</SUBLOCATIONNAME>
```

```
    </SUBLOCATION>
```

```
    <SUBLOCATION>
```

```
        <SUBLOCATIONNAME>SS</SUBLOCATIONNAME>
```

```
    </SUBLOCATION>
```

```
</LOCATION>
```

ix. Get All The Location & SubLocation.

The search option of this component is designed to allow user to find the all location with all of its sub location.

URL: localhost:8080/TransportApplication/transport/getalllocandsubloc

Example: O/P

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<LOCATION>
```

```
  <LOCATIONNAME>KIGALI</LOCATIONNAME>
```

```
    <SUBLOCATION>
```

```
      <SUBLOCATIONNAME>REMER</SUBLOCATIONNAME>
```

```
    </SUBLOCATION>
```

```
    <SUBLOCATION>
```

```
      <SUBLOCATIONNAME>SS</SUBLOCATIONNAME>
```

```
    </SUBLOCATION>
```

```
<LOCATIONNAME>BUTARE</LOCATIONNAME>
```

```
  <SUBLOCATION>
```

```
    <SUBLOCATIONNAME>DD</SUBLOCATIONNAME>
```



```

    </SUBLOCATION>
  <SUBLOCATION>
    <SUBLOCATIONNAME>FF</SUBLOCATIONNAME>
  </SUBLOCATION>
</LOCATION>

```

x. Get All Data

The search option of this component is designed to allow user to find the all the data stored in database.

URL: <localhost:8080/TransportApplication/transport/getalldata>

Example: O/P

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<locations>
  <LOCATION>
    <locationId>1</locationId>
    <LOCATIONNAME>KIGALI</LOCATIONNAME>
    <subLocation>
      <LOCATIONID>1</LOCATIONID>
      <SUBLOCATIONID>1</SUBLOCATIONID>
      <SUBLOCATIONNAME>REMERAR</SUBLOCATIONNAME>
    </subLocation>
  </LOCATION>

```

```

</subLocation>

<subLocation>
    <LOCATIONID>1</LOCATIONID>
    <SUBLOCATIONID>2</SUBLOCATIONID>
    <SUBLOCATIONNAME>SS</SUBLOCATIONNAME>
</subLocation>

</LOCATION>

<LOCATION>
    <locationId>2</locationId>
    <LOCATIONNAME>BUTARE</LOCATIONNAME>
    <subLocation>
        <LOCATIONID>2</LOCATIONID>
        <SUBLOCATIONID>3</SUBLOCATIONID>
        <SUBLOCATIONNAME>DD</SUBLOCATIONNAME>
    </subLocation>
    <subLocation>
        <LOCATIONID>2</LOCATIONID>
        <SUBLOCATIONID>4</SUBLOCATIONID>
        <SUBLOCATIONNAME>FF</SUBLOCATIONNAME>
    </subLocation>
</LOCATION>

</locations>

```

xi.Update

The search option of this component is designed to allow user to update the sub location name stored in database.

POST URL: localhost:8080/TransportApplication/transport/update

Example: O/P

```
<SUBLOCATION>
    <LOCATIONID>2</LOCATIONID>
    <SUBLOCATIONID>4</SUBLOCATIONID>
    <SUBLOCATIONNAME>FF</SUBLOCATIONNAME>
</SUBLOCATION>
```

xii.Delete

The search option of this component is designed to allow user to delete the data from database.

DELETE URL: localhost:8080/TransportApplication/transport/delete/{locationId}

Example: I/P

DELETE localhost:8080/TransportApplication/transport/delete/{1}

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