# Use Case

**Use Case 1: collect common route**

**Precondition:** locate the place and show all the roads in the list

**Description:** User chooses his/her most common route and click the list item and it will be saved.

**Postcondition:** common route will show in the user favourite and app will push the route newest traffic information to the user.

**Exception:** the user click a exist road and it will show a dialog box said this road has been collected

**Use Case 2: upload road condition to the server**

**Precondition:** the user has logined in and locate the place

**Description:** The place textview shows the place the user in, user enters the road traffic information and click the submit button. The layout will show a dialog box said “commit successful”.

**Postcondition:** The road condition will be sent to the server, and the road condition will refresh.

**Exception:** the road traffic information is empty it will show a dialog said “please enter the road traffic information”.

**Use Case 3: register and login**

**Precondition:** connect to the internet

**Description:** User enter the username and password, click the register/login button.

**Postcondition:** according to the locate user login in, app will show user the road traffic information in the list near the user.

**Exception:** username has been registered/the password is wrong, it will show a dialog said “duplicate username”/”wrong password”.

**Use Case 4: list all road conditions around**

**Precondition:** User’s location has been found.

**Description:** All road condition are shown in listView based on user’s location

**Postcondition:** All road condition can be shown in order of level of traffic jam.

**Use Case 5: Create a new search**

**Precondition:** none

**Description:** The user enter a search key-word and presses the search button. System will query the traffic condition around the place. The result will be shown in a new fragment.

**Postcondition:** The search key-word can be saved and collected to be convenient to users.

**Exception:** The user fails to enter a search. A dialog box prompts the user to enter .

**Use Case 6:** **Route guidance Route guidance Route guidance**

**Precondition:** User’s location has been found. Destination has been entered or saved in the past.

**Description:** System will use algorithm to choose the optimalizing route.

The route achieves a balance of distance and traffic .

**Postcondition:** The route search can be saved and collected to be convenient to user.

**Exception:** The user fails to enter a search. A dialog box prompts the user to enter .