

USER MANUAL

1. GENERAL INFORMATION

Thank you for using our management system. Please read this User Manual before the usage as it contains information about the chief feature descriptions of the system, as well as some tips you should notice.

The software system is a tourist train journey management system, which is designed for the staffs of the train company to manage the train journey in the city. The system provides a friendly user operation interface, making the usage more comfortable and convenient.

The system have three main functions: manage the route (add, delete or modify), view route information, stimulate and control the train. Detailed introduction will be covered in the following chapter. Except main functions, modification and new added functions are available for future system development.

2. MAIN FUNCTIONS

2.1 Manage the Route

This is the most significant function of the management. The specific operations and managements of the route journey are included in this part. There are 4 sub-functions to manage different information of the route.

◆ Add new route

To create a new route in the software, Users should provide the information of new route, including route name, name and number of stop stations, the number of trains included in the route and

timetable of the route. If all information is available, a new route will be added to system.

◆ Delete existing route

Type in existing route name and then all information about the route will be deleted permanently inside the system. (A wrong or nonexistent route name will trigger a warning and users should type in again.)

◆ Modify information of existing route

Users have an access to changing all information except the trains and drivers assigned to the route by the system.

◆ Assign trains and drivers

Once a new route is added successfully, the software system will allocate automatically trains to each route and a driver to each train. (A train information table is hold inside the system in the form of file as well as driver information table.) Only the trains and drivers who is available will be assigned.

2.2 View Route Information

There is a display window to show the timetable and other information of the selected route. Each window only displays information of one route. (E.g. Figure 2-1 is the display window of route ABC.)



	Station BEIJING	Station SHANGHAI	Station HONGKONG	TrainID	DriverID
1	0800	1200	1600	06	C
2	1000	1400	1800	11	R
3	1200	1600	2000	17	S

Figure 2-1 display window

2.3 Stimulate and Control Trains

To test the real-time functions of the management system, a stimulation is used to check trains live status and control train remotely.

The real-time status of the train are showed in an information window whose information will update once every few seconds, such as Figure 2-2.

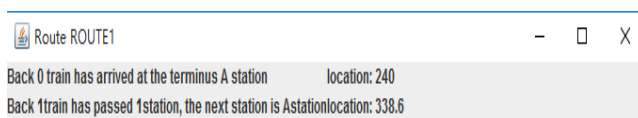


Figure 2-2 the window for trains live status

Users can start or stop remotely through the software system. If users stop a train, the location of the train will remain unchanged until it restart.

3. OPERAYING INSTRUCTION

3.1 Main Menu

Figure 3-1 is the main menu of the tourist train journey management system. Four buttons correspond to four functions, adding new route, viewing route information, stimulation and delete or modify route respectively.



Figure 3-1 Main Menu

3.2 Add New Route

- Click the button “new Route” on the main menu first.
- Then, the interface like Figure 3-2 will appear. Fill in your values to corresponding textboxes (route name, the number of station and the number of train respectively). Click “OK” after finishing this step.

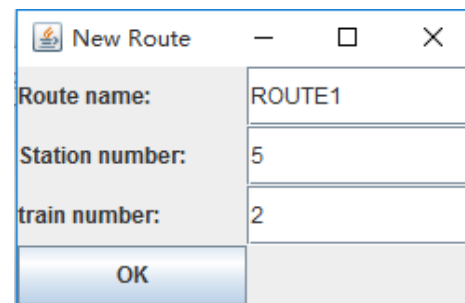


Figure 3-2 First Interface of New Route

- Later on, it will jump to the interface like Figure 3-3. Fill in the name of stop station along the route in the first row and corresponding arrival time in next few rows (the number of rows depends on train number while the number of columns depends on Station number). Click “OK” after finishing this step.

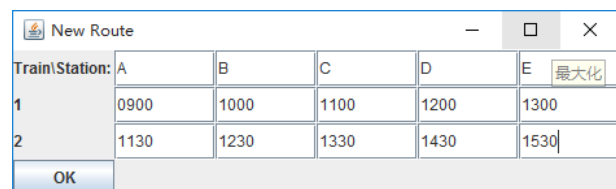


Figure 3-3 Second Interface of New Route

- After finishing the above steps, a new route is created successfully. And you can its information can be viewed in Route Info.

3.3 Delete or Modify Existing Route

First click the button “Change Route” on the main menu. The interface will jump to Figure 3-4. There are two operations you can perform, delete route or change route.

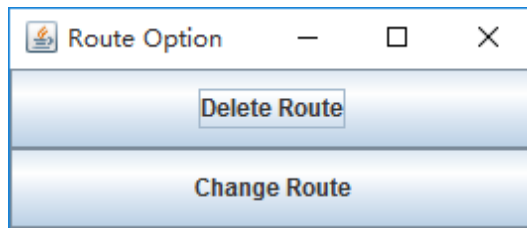


Figure 3-4 Delete or Change Route

Delete route

- Choose the button “Delete Route” on Route Option window. And then you will see a window like Figure 3-5.

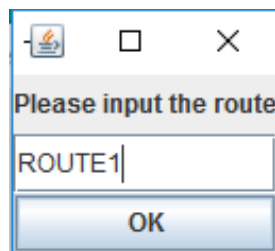


Figure 3-5 Delete Route

- Fill in route name you want to delete (name filled in must be the name of existing route, otherwise the system will give a warning). Afterwards push “OK”.
- Delete route successfully.

Change route

- Choose the button “Change Route” on Route Option window. And then you will see a window like Figure 3-6.

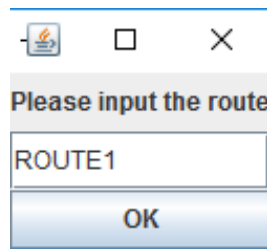


Figure 3-6 First Interface of Change Route

- Fill in route name you want to change (name filled in must be the name of existing route as well). Afterwards push “OK” and jump to next interface (see as Figure 3-7).

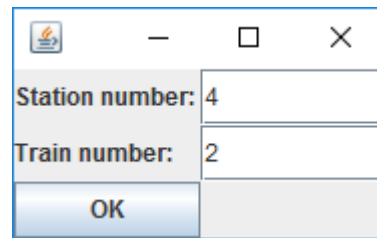


Figure 3-7 Second Interface of Change Route

- Fill in the station number and the train number you would like to change and then click “OK”.
- Fill in the table referring to step 4 in the process of adding new route.



Figure 3-8 Third Interface of Change Route

- Click “OK” and finish the modification of the route.

3.4 View Route Information

- First click the button “Route Info” on the main menu. The interface will jump to Figure 3-9.

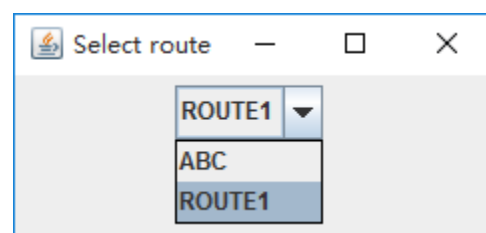


Figure 3-9 Select Route to View

- Secondly, click the select box and choose a route from the pull-down list box. The information table of the route will be displayed as Figure 3-10.

ROUTE1				
Station A	Station B	Station C	Station D	Station E
0900	1000	1100	1200	1300
1130	1230	1330	1430	1530

Figure 3-10 Information Table

3.5 Stimulation

- First click the button *“Start Stimulation”* on the main menu. The interface will jump to Figure 3-11.

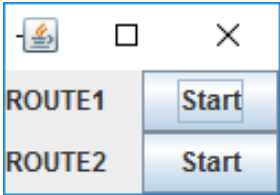


Figure 3-11 First Interface of Stimulation

- Secondly, choose the button *“Start”* following the route you plan to stimulate. Three interfaces (from Figure 3-12 to Figure 3-14) will appear. Figure 3-12 is a window for train live status which has already introduce in Section 2.3. Figure 3-13 and Figure 3-14 are manager control panel and driver control panel.

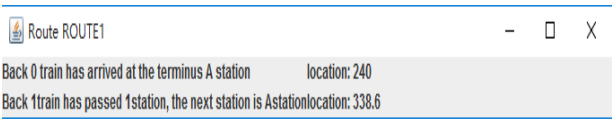


Figure 3-12 Display Window

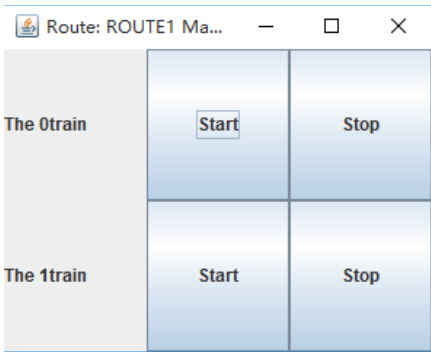


Figure 3-13 Manager Control Panel

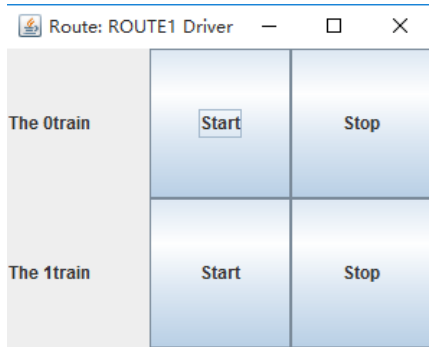


Figure 3-14 Driver Control Panel

- Thirdly, managers and drivers can start or stop the train by click the button *“Start”* or *“Stop”*.