

# TOURIST TRAIN JOURNEY MANAGEMENT SYSTEM

## Operation User Manual

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### GENERAL INFORMATION

- **System Overview**

The system is designed for the newly developed tourist area. It is a system used to check routes, stations, drivers' states, trains' states and control them. Train managers can keep track of the currently movement of the trains and check and modify the states of drivers and trains. Train drivers take responsibility of driving, stopping and restart trains. Passengers can check stations of trains.

### GETTING STARTED

- **Use as Operation Manager**

After entering the system, the information of trains and drivers, how they are assigned and which of them are available is displayed on the screen.

The screenshot displays a software interface with a green title bar and standard window controls. It contains two data tables and two buttons.

**DataView ControllerView**

DriverID	DriverName	DriverStatus
01	driver1	train1
02	driver2	train2
03	driver3	free
04	driver4	free
05	driver5	free
06	driver6	free
07	driver7	free
08	driver8	train9
09	driver9	free
10	driver10	free

TrainID	TrainName	TrainStatus	TrainDriver
01	train1	router3	driver1
02	train2	router3	driver2
03	train3	router3	null
04	train4	free	null
05	train5	router1	null
06	train6	router1	null
07	train7	free	null
08	train8	free	null
09	train9	free	driver8
10	train10	free	null

RouterNa...	JourneyN...	StationNum	Station_1	Station_2	Station_3	Station_4
router3	3	4	A	B	C	D
router1	2	4	A	B	C	D

### Assign train to journey/driver to train:

You can choose the train you want in DriverStatus and choose the train in TrainDriver to assign driver to train and train to journey.

DriverID	DriverName	DriverStatus
01	driver1	train1
02	driver2	train2
03	driver3	free
04	driver4	train3
05	driver5	train5
06	driver6	train7
07	driver7	free
08	driver8	train9
09	driver9	free
10	driver10	free

TrainID	TrainName	TrainStatus	TrainDriver
01	train1	router3	driver1
02	train2	router3	driver2
03	train3	router3	driver4
04	train4	free	null
05	train5	router1	driver5
06	train6	router1	null
07	train7	free	driver6
08	train8	router1	null
09	train9	free	driver8
10	train10	free	null

RouterNa...	JourneyN...	StationNum	Station_1	Station_2	Station_3	Station_4
router3	3	4	A	B	C	D
router1	3	4	A	B	C	D

removeRouter

ModifyRouter

### Remove route:

After clicking the route that you want to remove, click “removeRoute”, then this route will be removed.

RouterNa...	JourneyN...	StationNum	Station_1	Station_2	Station_3	Station_4
router3	3	4	A	B	C	D

removeRouter

ModifyRouter

### Modify Route:

Click “ModifyRoute”, input the information of new route that you want to set and click “saveChange”, then the new route will be displayed on the screen.

The screenshot shows a Java Swing window with a green title bar. The window contains a form with the following elements:

- New Router:** A text input field containing the text "ROUTER2".
- Station\_1:** A text input field containing the text "A".
- Station\_2:** A text input field containing the text "C".
- Station\_3:** A text input field containing the text "B".
- Station\_4:** A text input field containing the text "D".
- StationNum:** A text input field containing the text "4".
- addRouter:** A blue button with the text "addRouter".
- saveChange:** A blue button with the text "saveChange".

RouterNa...	JourneyN...	StationNum	Station_1	Station_2	Station_3	Station_4
router3	3	4	A	B	C	D
router1	2	4	A	B	C	D
ROUTER2	0	4	A	C	B	D

### Start/Stop Train Remotely:

Click "ControllerView", then operation manager can see the timetable.

AdminControllerFrame

Stations:	A	B	C	D	D	C	B	A
train1	1:20	1:40	2:00	2:20	2:25	2:45	3:05	3:25
->								

Stations:	A	B	C	D	D	C	B	A
train2	0:10	0:30	0:50	1:10	1:15	1:35	1:55	2:15
->								

Stations:	A	B	C	D	D	C	B	A
train3	1:20	1:40	2:00	2:20	2:25	2:45	3:05	3:25
->								

train1

▼

DriverControllerFrame

Click "Start Simulation", then trains begin to run and operation manager can track the train remotely.

If you click "Stop Simulation", the train will stop immediately.

AdminControllerFrame

Stations:	A	B	C	D	D	C	B	A
train1	1:20	1:40	2:00	2:30	2:35	3:30	3:50	4:10
->								

Stations:	A	B	C	D	D	C	B	A
train2	0:10	0:30	1:00	1:55	2:00	2:20	2:40	3:00
->	->	->	->	->	->			

Stations:	A	B	C	D	D	C	B	A
train3	1:20	1:40	2:00	2:30	2:35	3:30	3:50	4:10
->								

4:35

train1

▼

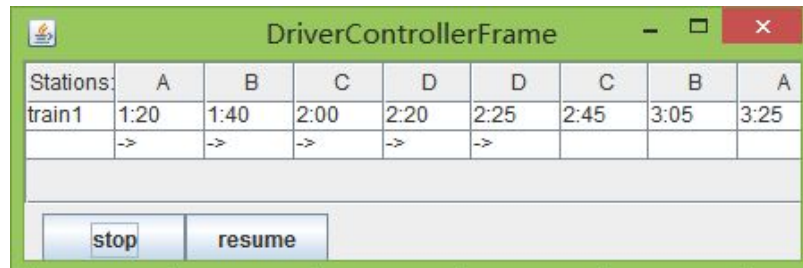
DriverControllerFrame

If you click “Resume Simulation”, the train will go on running. And the current known location of train and the timetable will be updated.

- **Use as Driver**

**Start/Stop Train Manually:**

Driver can start/stop the train Choose the train manually. Choose the train that you want to start/stop and click “DriverControllerFrame”, you will see the follow frame.

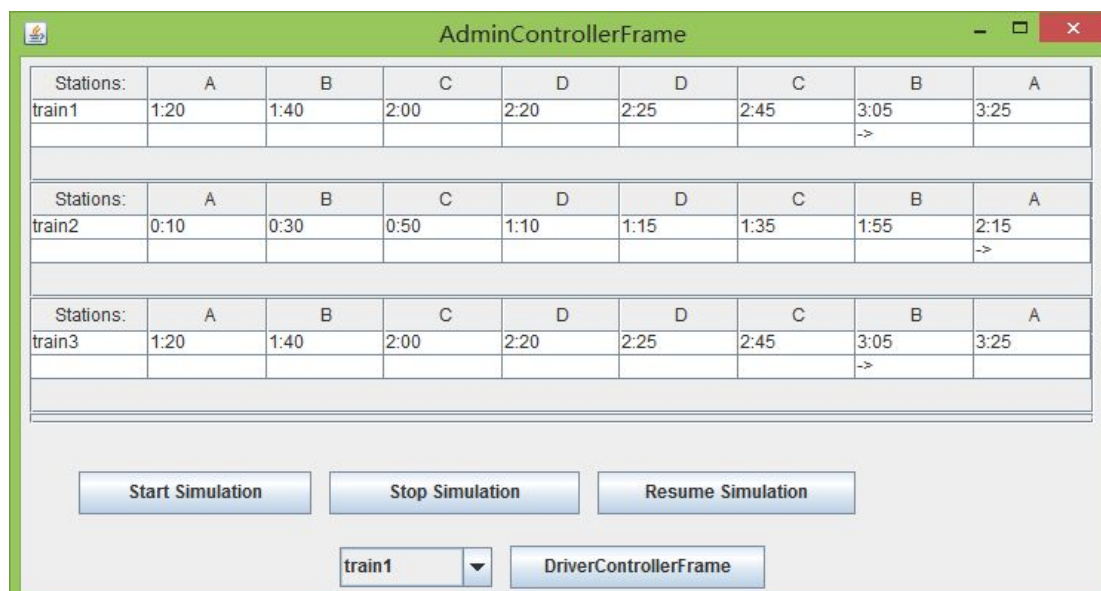


Stations:	A	B	C	D	D	C	B	A
train1	1:20	1:40	2:00	2:20	2:25	2:45	3:05	3:25
	->	->	->	->	->			

stop resume

If you click “Stop”, the train will stop immediately.

If you click “Resume”, the train will go on running. And the current known location of train and the timetable will be updated.



Stations:	A	B	C	D	D	C	B	A
train1	1:20	1:40	2:00	2:20	2:25	2:45	3:05	3:25
							->	

Stations:	A	B	C	D	D	C	B	A
train2	0:10	0:30	0:50	1:10	1:15	1:35	1:55	2:15
								->

Stations:	A	B	C	D	D	C	B	A
train3	1:20	1:40	2:00	2:20	2:25	2:45	3:05	3:25
							->	

Start Simulation Stop Simulation Resume Simulation

train1 ▼ DriverControllerFrame