Route Advisory System (RADS)

RAS-Group, School of Computing, NUS

Scripts for Demo

1. Launch RADSMM

Note: This is to be done before the demo proper.

2. System Introduction

This is the main screen that will be presented to the user. Over here we have the map of Singapore.

The gray lines are the roads, the little gray dots are the many bus stops that cover the whole island; and the yellow lines are the MRT tracks.

The yellow patch over here is the Central Business District or CBD.

Over here is what we call the Command Window. These buttons over here [GIS buttons] allow the user to navigate within the map and these red buttons [RADS buttons] link directly to the multimodial solver as you will see later.

The window over here is what we call the Trip Information Window where the details of the multimodal trip will be displayed.

[if asked about the little corner window]
I'm glad you asked. This little window over here displays the coordinate location of any point that is clicked on the map.

3. Demo Proper

Basic Demo: Minimize Time or Fare [NUS \rightarrow Parkway-Parade]

Source -- NUS, S15

Destination -- Parkway Parade

Preferences – *Minimize Time*, Start Time 5:00pm

Optimal Trip: 65 minutes and fare \$2.60

Preferences – *Minimize Fare*, Start Time 5:00pm

Optimal Trip: 81 minutes and fare \$1.30

More Demo: Effect of Starting Time [Expo → Parliament House]

Source -- Singapore Expo.

Destination -- Parliament House.

Preferences – Minimize Time, Start Time 5:05pm

Optimal Trip: 43 minutes and fare \$2.50

Preferences – Change Start Time to 5:00pm

Optimal Trip: 41 minutes and fare \$2.50

[Highlight: Faster travelling time (by 2 minutes). Because at North Bridge Road stop, we can board an earlier bus]

4. System Configuration

Pentium-2 Desktop/Notebook

CPU -- P233MMX RAM -- 64Mb

RADS Disk Space Used:

Solver ~ 500Kb

Data ~ 1Mb

GUI ~ 19Mb

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System Demo

Scenario 1: Basic Demo

```
Source -- NUS, S15
Destination -- Parkway Parade
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Input 1:

Preference -- 100% Time, 0% Fare, Start Time 5pm

Output:

Optimal Trip: 65 minutes and cost \$2.60

Trip details:

6	0	Walk	to AYE,
11	60	Take Bus	198 to Buona Vista Road (near BV MRT station)
3	0	Walk	to Buona Vista MRT station
28	140	Take MRT	to Paya Lebar station
4	0	Walk	to bus stop on Paya Lebar Road
12	60	Take Bus	76 to Marine Parade Road (opp Parkway Parade)
1	0	Walk	to Parkway Parade
			
65	260		

Input 2:

Preference -- 0% Time, 100% Fare, Start Time 5pm

Output:

Optimal Trip: 81 minutes and cost \$1.30

Trip details:

81	130		
1	0	Walk	to Parkway Parade
74	130	Take Bus	197 to Marine Parade Road (opp Parkway Parade)
6	0	Walk	to AYE,

Input 3:

Preference3 -- 0% Time, 100% Fare, Start Time 5:05pm

Output:

Optimal Trip: 76 minutes and cost \$1.30

Trip details:

Note: The waiting time to get on Bus 197 is now 5 min shorter

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Scenario 2

Source -- Singapore Expo. Destination -- Parliament House.

Input 1:

Preference1 -- 100% Time, 0% Fare, Start Time 5.05pm

Output:

Optimal Trip: 43 minutes and cost \$2.50

Trip details:

1	0	Walk	to Upper Changi Road East,
8	60	Take Bus	24 to Upper Changi Road (near TM MRT station)
2	0	Walk	to Tanah Merah MRT station
20	130	Take MRT	to City Hall MRT station
3	0	Walk	to bus stop on North Bridge Road
4	60	Take Bus	174 to North Bridge Road (opp High St. Centre)
5	0	Walk	Parliament House
43	250		

Input 2:

Preference2 -- Start Time 5.00pm

Output:

Optimal Trip: 41 minutes and cost \$2.50

Trip details: