

# Taxi Booking System

## Assignment Part 2

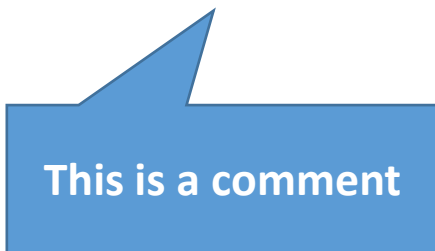
Execution Flow

### EXAMPLE

\*This example is produced as a guide to complete your assignment part 2. Assignment specification is the only reference for evaluation. However all your design decisions should be logical in the context. For example, in case of password update of users, three user input fields are necessary: one to type current password, second for the new password and third for the confirmation of new password.

# Taxi Booking System

## Legend



Blue colour boxes are used for extra comments on the implementation. You need not show them in your application.

>

">" is used to indicate a new line in non web applications. You need not print it in your application output.

(some text here)

Certain output text in non web applications are truncated for clarity. Such instances are indicated using red text within brackets.

some text here

User input text in non web applications are indicated in blue colour.

# Taxi Booking System (User Web)

# Taxi Booking System (User Web)

## 1. User Registration

# Taxi Booking System (User Web)

[Sign up](#)

| [Login](#)

User Name:

Superman



Enter Password:

\*\*\*\*\*

Enter Password Again:

\*\*\*\*\*



Contact Number:

65161234

Email:

superman@nus.edu.sg

Address:

344 Clinton Street,  
Metropolis



**User name already exists!  
Password is inconsistent!**

**Register**

Example error  
messages in case of  
an error.

# Taxi Booking System (User Web)

[Sign up](#)

[Login](#)

User Name:

Batman

Enter Password:

\*\*\*\*\*

Enter Password Again:

\*\*\*\*\*

Contact Number:

65161234

Email:

batman@nus.edu.sg

Address:

1007 Mountain Drive,  
Gotham



**Register successfully!**

**Register**

Success message if  
user is registered  
successfully

# Taxi Booking System (User Web)

## 2. User Login

# Taxi Booking System (User Web)

[Sign up](#)



[Login](#)



**User Name or  
Password incorrect!**

User Login

Login



# Taxi Booking System (User Web)

[Sign up](#)



[Login](#)



**Login successfully!**

User Login

Batman

\*\*\*\*\*

Login

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

Hello *Batman!*  
Welcome to TBS!

# Taxi Booking System (User Web)

## 3. Update Profile

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

Enter Current Password:

\*\*\*\*\*



Enter New Password:

\*\*\*\*\*

Confirm New Password :

\*\*\*\*\*

Name:

Batman

Contact Number:

65164321

Email:

batman@nus.edu.sg

Address:

1007 Mountain Drive,  
Gotham



**Current Password incorrect.**

Save Change

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

Enter Current Password:

\*\*\*\*\*



Enter New Password:

\*\*\*\*\*



Enter New Password Again:

\*\*\*\*\*



Name:

Batman

Contact Number:

65164321

Email:

batman2@nus.edu.sg

Address:

1007 Mountain Drive,  
Gotham



**Profile successfully updated!**

[Save Change](#)

# Taxi Booking System (User Web)

## 4. Book Ride

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

Enter Location:

Latitude:

Longitude:

**Request**

**Cannot book rides! Please  
pay unpaid rides.**

Example error if  
user has unpaid  
rides

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

Enter Location:

Latitude:

Longitude:

**Request**

**Sorry, no free drivers!  
Try again later.**

Message if no  
drivers can be  
found



# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

Your Location:

Latitude: 25

Longitude: 20

**Booking successful, your taxi driver, John is on way! Taxi car number: SGX1234**



If booking is  
successful

# Taxi Booking System (User Web)

## 5. View Previous Rides

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## View Rides



**Start:**

**Date and Time:** 2017/02/22 11:55

**Latitude:** 10

**Longitude:**15

**End:**

**Date and Time:** 2017/02/22 12:25

**Latitude:** 14

**Longitude:**25

**Fee:** \$40

**Driver:** Kane      **Contact:** 86781234



Payment link for  
unpaid rides



**Start:**

**Date and Time:** 2017/02/20 11:05

**Latitude:** 10

**Longitude:**25

**End:**

**Date and Time:** 2017/02/20 12:25

**Latitude:** 14

**Longitude:**55

**Fee:** \$55

**Driver:** John **Contact:** 86784321

**Feedback:**

**Rating:** 5 star

**Comment:** Great car!

# Taxi Booking System (User Web)

## 6. Cancel Rides

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## View Rides



**Start:**

**Date and Time:** 2017/02/24 13:55

**Latitude:** 10

**Longitude:**15

**Driver:** Kane      **Contact:** 86781234

**Cancel**

Can cancel current  
rides in this page



**Start:**

**Date and Time:** 2017/02/20 11:05

**Latitude:** 10

**Longitude:**25

**End:**

**Date and Time:** 2017/02/20 12:25

**Latitude:** 14

**Longitude:**55

**Fee:** \$55

**Driver:** John **Contact:** 86784321

**Feedback:**

**Rating:** 5 star

**Comment:** Great car!

# Taxi Booking System (User Web)

## 6. Pay Rides

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## View Rides



**Start:**

**Date and Time:** 2017/02/22 11:55

**Latitude:** 10

**Longitude:**15

**End:**

**Date and Time:** 2017/02/22 12:25

**Latitude:** 14

**Longitude:**25

**Fee:** \$40

**Driver:** Kane      **Contact:** 86781234



Payment link for  
unpaid rides



**Start:**

**Date and Time:** 2017/02/20 11:05

**Latitude:** 10

**Longitude:**25

**End:**

**Date and Time:** 2017/02/20 12:25

**Latitude:** 14

**Longitude:**55

**Fee:** \$55

**Driver:** John **Contact:** 86784321

**Feedback:**

**Rating:** 5 star

**Comment:** Great car!

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## Card Information:

Card Type:	<input type="text" value="Master"/>
Card Number:	<input type="text" value="5544777788889999"/>
Holder Name:	<input type="text" value="Batman"/>
Value Paid (\$):	<input type="text" value="5.50"/>

**Payment rejected! Pay exact value.**

**Submit**

**Hint:** Payment value should be the exact amount.



# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## Card Information:

Card Type:

Master

Card Number:

5544777788889999

Holder Name:

Batman

Value Paid (\$):

40

**Submit**

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)



**Your payment is successful!**

**Hint:** Success message when payment is made successfully.

# Taxi Booking System (User Web)

## 7. Feedback

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## View Rides



**Start:**

**Date and Time:** 2017/02/22 11:55

**Latitude:** 10

**Longitude:**15

**End:**

**Date and Time:** 2017/02/22 12:25

**Latitude:** 14

**Longitude:**25

**Fee:** \$40

**Driver:** Kane      **Contact:** 86781234



**Start:**

**Date and Time:** 2017/02/20 11:05

**Latitude:** 10

**Longitude:**25

**End:**

**Date and Time:** 2017/02/20 12:25

**Latitude:** 14

**Longitude:**55

**Fee:** \$55

**Driver:** John **Contact:** 86784321

**Feedback:**

**Rating:** NA

**Comment:** NA



Provide feedback  
button

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## Feedback Information:

Stars:



Comment:

Great car

**Submit**

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## View Rides



**Start:**

**Date and Time:** 2017/02/22 11:55

**Latitude:** 10

**Longitude:**15

**End:**

**Date and Time:** 2017/02/22 12:25

**Latitude:** 14

**Longitude:**25

**Fee:** \$40

**Driver:** Kane      **Contact:** 86781234



**Start:**

**Date and Time:** 2017/02/20 11:05

**Latitude:** 10

**Longitude:**25

**End:**

**Date and Time:** 2017/02/20 12:25

**Latitude:** 14

**Longitude:**55

**Fee:** \$55

**Driver:** John **Contact:** 86784321

**Feedback:**

**Rating:** 5 Star

**Comment:** Great

Feedback details

# Taxi Booking System (User Web)

## 8. View payments

# Taxi Booking System

## (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

### Payments:

Amount	Pay date	Card (Last 4 digits)
\$5	27/02/2017	1234
\$40	13/02/2017	4321
\$12	08/08/2016	6789



# Taxi Booking System (User Web)

## 7. User Messages

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## Messages of Batman

Request No	Date	State	Message	Comment
1	Sep 20, 2016 , 8:38AM	processed	Cannot pay my last ride	Please try again!
2	Feb 01, 2016 , 3:55PM	Unread	I cannot login due to system error. Please check.	

**New Message**

To send new message

# Taxi Booking System (User Web)

[Profile](#) | [Book](#) | [Rides](#) | [Payments](#) | [Messages](#)

## Messages

Message:

How to get new discount codes?

**Submit**

# Taxi Booking System (Administrator Non-Web)

# Taxi Booking System (Administrator Non-Web)

## Main Menu

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

Please enter your choice:

1. Add user.
2. Delete user.
3. Add Car.
4. Delete Car.
5. Add Driver.
6. Update Driver.
7. Delete Driver.
8. View Feedback Report.
9. View Idle Drivers.
10. View Monthly Performance Report.
11. View Unpaid Fines.
12. Process Messages.

# Taxi Booking System (Administrator Non-Web)

## 1. Add User Accounts

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>1

>Add User Account:

>Enter user name: Batman

>Enter default password: 123456

>Enter contact number: 86123210

>Enter email: batman@nus.edu.sg

>Enter address: 1007 Mountain Drive, Gotham

>Account has been successfully created!

(Show Main Menu again)

>1

>Add User Account:

>Enter user name: Batman

>Error! Account already exists!

(Show Main Menu again)

Hint: User input text is indicated in blue color.

Hint: New line indicator. You need not print them.



# Taxi Booking System (Administrator Non-Web)

## 2. Delete User Accounts

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>2

>Delete User Account

>Enter user name: Superman

>Error! Account is associated with rides,  
cannot be deleted!

(Show Main Menu again)

>2

>Delete User Account

>Enter user name: Batman

>Account successfully deleted!

(Show Main Menu again)

>2

>Delete User Account

>Enter user name : Batman

>Error! Account does not exist!

(Show Main Menu again)

# Taxi Booking System

## (Administrator Non-Web)

### 3. Add Car

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>3

>Add Car

>Enter registration: SGX1234

>Enter Brand: Nissan

>Enter Model: Sunny

>Manufactured Year: 2016

>Car successfully added!.

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>3

>Add Car

>Enter registration: SGX1234

>Enter Brand: Nissan

>Enter Model: Sunny

>Manufactured Year: 2016

>Error! Car already exists!

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

## 4. Delete Car

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>4

>Delete Car

>Enter registration: SGX1234

>Car successfully deleted

(Show Main Menu again)

>4

>Delete Car

>Enter registration: SGX1234

>Error! Car doesn't exists!

(Show Main Menu again)

>4

>Delete Car

>Enter registration: SGX1235

>Error! Cannot delete. Car associated with driver!

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

## 5. Add Driver



# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>5

>Add Driver

>Enter License No: A1234

>Enter Name: John Macmillan

>Enter Contact Number: 123456

>Enter Address: Downtown

>Enter Latitude: 10

>Enter Longitude: 10

>Enter Car Registration: SGX1234

>Driver successfully added!.

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>5

>Add Driver

>Enter License No: A1234

>Enter Name: John Macmillan

>Enter Contact Number: 123456

>Enter Car Registration: SGX1234

>Enter Address: Downtown

>Enter Latitude: 10

>Enter Longitude: 10

>Error! Driver already exists!.

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>5

>Add Driver

>Enter License No: A12345

>Enter Name: Jane Macmillan

>Enter Contact Number: 123456

>Enter Car Registration: SGX4321

>Enter Address: Downtown

>Enter Latitude: 10

>Enter Longitude: 10

>Error! Unknown car!.

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

## 6. Update Driver

# Taxi Booking System

## (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>6

>Update Driver

>Enter License No: A1234

>Enter New License No: A1235

>Enter New Name: John Macmillan

>Enter New Contact Number: 123456

>Enter New Car Registration: SGX9876

>Enter Address: Downtown

>Enter Latitude: 10

>Enter Longitude: 10

>Driver successfully updated!

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>6

>Update Driver

>Enter License No: A3333

>Driver associated with rides

>Enter New Name: Kane William

>Enter New Contact Number: 123456

>Enter Address: Downtown

>Enter Latitude: 10

>Enter Longitude: 10

>Driver successfully updated!

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>6

>Update Driver

>Enter License No: ABC

>No such driver!

(Show Main Menu again)

# Taxi Booking System

## (Administrator Non-Web)

### 7. Delete Driver



# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>7

>Delete Driver

>Enter License No: A555

>Driver successfully deleted!

(Show Main Menu again)

>7

>Delete Driver

>Enter License No: A555

>No such driver!

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>7

>Delete Driver

>Enter License No: A1234

>Driver cannot be deleted! Associated  
with car.

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

## 8. Feedback Report

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>8

>Feedback Report

>Enter Driver License Number: A1212

>Error! No such driver!

(Show Main Menu again)

>8

>Feedback Report

>Enter Driver License Number: A1234

>Summary Report:

>1 Star = 0, 2 Star = 0, 3 Star = 0,

4 Star = 10, 5 Star = 7

(Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

## 9. View Idle Drivers

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>9

>Idle Drivers:

>1. License: A1234 | Name: John May |  
Contact:86781234 | Latitude: 10 | Longitude: 89

>2. License: A4321 | Name: Jane Doe |  
Contact:86789012 | Latitude: 11 | Longitude: 19

(Details of any other idle drivers)

> (Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

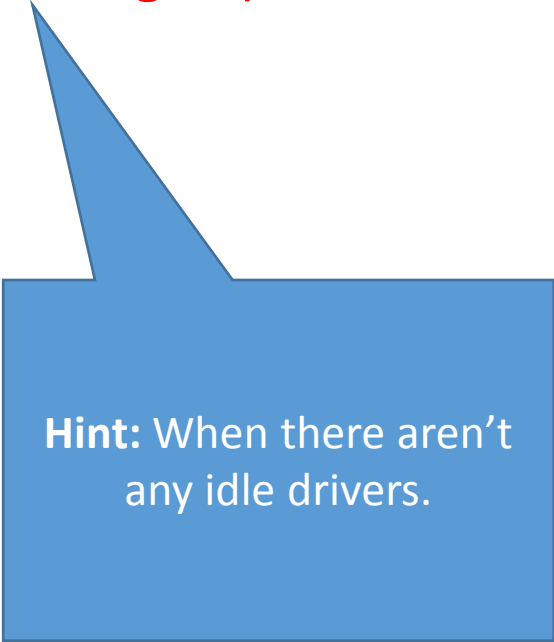
(Show Main Menu)

>9

>Idle Drivers:

>No idle drivers

> (Show Main Menu again)



**Hint:** When there aren't  
any idle drivers.

# Taxi Booking System (Administrator Non-Web)

## 10. Monthly Performance Report



# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>10

>Performance Report for Current Month:

>1. Driver: John May | Revenue:\$867 |  
Rides: 20 | Ride Time: 17 hours and 20 mins  
| Distance: 200km

>2. Driver: Jane Doe | Revenue:\$1467 |  
Rides: 32 | Ride Time: 22 hours and 10 mins  
| Distance: 340km

(Details of any other drivers)

> (Show Main Menu again)

# Taxi Booking System

## (Administrator Non-Web)

### 11. Unpaid Rides

# Taxi Booking System

## (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>11

>Unpaid Rides:

>1. Ride Start Date Time: 01.02.2017 11:55

Ride End Date Time: 01.02.2017 12:25

Name: Batman | Contact:86781234 |

Email: [batman@mail.com](mailto:batman@mail.com) | Fee \$30

>2. Ride Start Date Time: 07.02.2017 01:05

Ride End Date Time: 07.02.2017 01:25

Name: Superman | Contact:86784444 |

Email: [superman@mail.com](mailto:superman@mail.com) | Fee \$50

(Any other unpaid rides)

> (Show Main Menu again)

# Taxi Booking System (Administrator Non-Web)

## 12. Process Messages

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(Show Main Menu)

>12

>Process Requests

>Request Id: 5

>Username: Batman

>Time: 05/09/2016 11:00PM

>Message: Can I get discount codes?

>

>Request Id: 14

>Username: Superman

>Time: 11/09/2016 09:40AM

>Message: I cannot make payments due to system error. Please check.

>

(Any other relevant messages)

>Enter the Request id to be processed: 5

>Change the status to: **Processed**

>Comment: **Not supported yet**

>Request has been updated.

(Cont. next page)

Hint: First come first served

# Taxi Booking System (Administrator Non-Web)

\*\*\*\*\*

Welcome to Use TBS Admin Portal

\*\*\*\*\*

(cont. from previous page)

(Show Main Menu)

>12

>Process Requests

>Request Id: 14

>Username: Superman

>Time: 11/09/2016 09:40AM

>Message: I cannot make payments due to system error. Please check.

>

(Any other relevant messages)

>Enter the Request id to be processed: 14

>Change the status to: Processed

>Comment: Please try again.

>Request has been updated.

(Show Main Menu Again)

**Hint:** Processed requests will not be shown again.

# Driver Update System (Non-Web)

# Driver Update System (Non-Web)

\*\*\*\*\*

Welcome to DUS Portal

\*\*\*\*\*

>Enter your license number: **SGX1234**

>Select task

1: Update location

2: End current ride

>Choice : **1**

>Enter Latitude: **10**

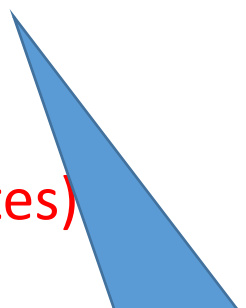
>Enter Longitude: **20**

>Your Request has been sent.

>

>Enter your license number:

**(User can send further updates)**



**Hint:** No  
acknowledgement is  
required



# Driver Update System (Non-Web)

\*\*\*\*\*

Welcome to DUS Portal

\*\*\*\*\*

>Enter your license number: **SGX1234**

>Select task

1: Update location

2: End current ride

>Choice : **2**

>Enter Latitude: **10**

>Enter Longitude: **20**

>Your Request has been sent.

>

>Enter your license number:

**(User can send further updates)**

**Hint:** No  
acknowledgement is  
required. If the driver is  
not on a ride, disregard  
this message