

AACS1084

Programming Concepts & Design II

Assignment

2024

Programme	:	Diploma in Information Technology
Tutorial Group	:	Group 4
Date Submitted to Tutor	:	

Team Members:

No	Student Name	Student ID
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3.	Goh Chun Wen	2302211
4.	Wong Shun Bin	2302292

No.	Team Member	Task(s) Allocated	Overall Contribution (%)
1.	Chaw Chun Jia	Train Scheduling Module	25%
2.	Ooi Jun Kang	Member Module	25%
3.	Goh Chun Wen	Ticket Booking Module	25%
4.	Wong Shun Bin	Staff Module	25%

Coursework Declaration

We confirm that we have read and shall comply with all the terms and conditions of TAR University College's plagiarism policy. We declare that this assignment is free from all forms of plagiarism and for all intents and purposes is our own properly derived work.

Signature	:	Chaw	Jkang	Chun	Wong
Name	:	Chaw Chun Jia	Ooi Jun Kang	Goh Chun Wen	Wong Shun Bin
Photo	:				
Date	:	2/5/2024	2/5/2024	2/5/2024	2/5/2024

Assignment Evaluation Form

Student Name		Chaw Chun Jia	Ooi Jun Kang	Goh Chun Wen	Wong Shun Bin
Module handled		Train Scheduling	Member	Ticket Booking	Staff
Assessment Criteria	Mark	s Awarded			•
Application of Programming Knowled	ge				
Structures	12				
• Basic + extra fields,					
 Use of nesting & arrays 					
Appropriate usage					
File Processing	12				
 successful processing 					
Validation of data					
Appropriate usage					
<u>Functions</u>	12				
• 4 Basic file fns,					
• Extra file fns, useful/correct					
• Approp. menu design & process					
Others	12				
Others Use of parameters; correct usage	14				
Subsidiary working functionsMinimized global variables					
• Willimized global variables					
<u>Teamwork</u>	12				
Main menu, logo etc					
System/module integration					
Report integration/content					
 Sharing of files, functions 					
 Communication, cooperation 					
Program originality, efficiency and	10				
<u>readability</u>					
• Innovation, uniqueness					
Approp. logic structures					
Code Readability					
Report (indiv. section)	20				
• Clarity of description					
Narrated Screens for all processes					
(basic + extra)					
Penalty - Late Submission					
•					
• 1-3 days late □ -10					
4-7 days late □ -20					
>7 days late => Total mark = 0					
Subtotal (i)					
<u>Presentation</u>	10				
 Organization, explanation 					
• Enthusiasm, preparedness, attitude,					
understanding					
• Q&A handling Subtotal (ii)					
TOTAL MARK					
					garies for other reasons, ea

Note: In addition to the late penalty, marks will also be deducted under the different categories for other reasons, eg. bad programming practices, uncooperativeness, etc.

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1.0 Introduction

The Train Booking Schedule System, meticulously crafted in C programming language, stands as a comprehensive solution tailored to efficiently manage key aspects of train booking operations. With a core focus on staff management, member registration, ticket booking, and train scheduling, this system aims to streamline processes, enhance user experiences, and optimize resource utilization.

Staff Management Module:

At the heart of the system lies the Staff Management Module, where administrators wield the tools to orchestrate the roles, accounts, and permissions of personnel. Through this module, the allocation of responsibilities is finely tuned, ensuring smooth collaboration among team members while maintaining robust security measures to safeguard sensitive information and system integrity.

Member Registration Module:

The Member Registration Module serves as the gateway for passengers to establish their presence within the system. Offering a seamless registration process, passengers can create and manage their accounts with ease, providing necessary personal details and preferences. Beyond mere registration, this module fosters a personalized experience, allowing users to track their booking history, set preferences, and participate in loyalty programs, thereby enhancing customer engagement and retention.

Ticket Booking Module:

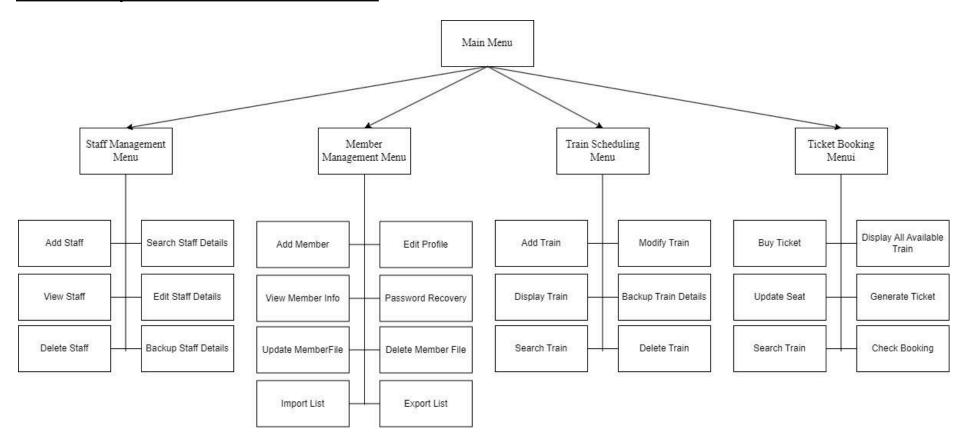
Central to the passenger experience is the Ticket Booking Module, where the journey from inquiry to confirmation is seamlessly navigated. Passengers are empowered to explore available train options, select preferred routes, and secure their bookings with confidence. Through secure payment gateways and robust validation mechanisms, the module ensures the integrity and confidentiality of transactions, culminating in the issuance of electronic tickets that encapsulate vital itinerary information.

Train Scheduling Module:

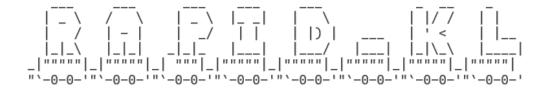
The Train Scheduling Module serves as the backbone of operational efficiency, meticulously orchestrating the intricate dance of train routes, schedules, and capacities. Administrators wield a suite of tools to optimize resource allocation, fine-tune routes based on demand patterns, and adapt schedules to evolving operational needs. By harnessing the power of data-driven insights, this module empowers railway companies to maximize revenue, minimize resource wastage, and deliver superior service to passengers.

In essence, the Train Booking Schedule System represents a culmination of innovation, efficiency, and user-centric design, poised to redefine the landscape of train booking management. Through its unwavering commitment to excellence, the system streamlines operations and elevates the overall passenger experience, ushering in a new era of efficiency and convenience in railway travel

<u>2.0 Overall System – Module Structure Chart</u>



3.0 Home Screen / Splash Screen



- [1] Login As Member
 [2] Login As Staff
 [3] Exit program

>>

4.0 System Modules

4.1 Staff Management by Wong Shun Bin

4.1.1 Description

The Staff Information Module serves as the backbone for managing all staff-related activities within the train ticketing system. It allows the system administrator or authorized personnel to add, view, modify, and search staff information, search for specific staff and backup staff details. This module ensures the security and integrity of staff data by providing functionalities to create and maintain staff login accounts and their associated details.

4.1.2 Outputs & File Contents

1. Module's Main Page:

```
Login successful!
=========
Staff Module
=========
[ 1 ] Staff Control Panel
[ 2 ] Member Control Panel
[ 3 ] Train Scheduling Control Panel
[ 4 ] Logout
>>
Staff Control Panel
_____
[ 1 ] Add New Staff
[ 2 ] Search Staff Details
[ 3 ] View Staff Details
[ 4 ] Edit Staff Detail
[ 5 ] Delete Staff Detail
[ 6 ] Back up Staff Detail
[ 0 ] Back to menu
Enter your choice:
```

2. File's Existing Data: The user selects "Display Staff" to view existing staff records.

Staff Control Panel _____ [1] Add New Staff
[2] Search Staff Details
[3] View Staff Details
[4] Edit Staff Detail
[5] Delete Staff Detail
[6] Back up Staff Detail
[0] Back to menu

Enter your choice: 3

View Staff Information

ID Name	=====				
	ID	Name	Password	Password Recov	Position
	=====				
				fish coffee	Admin Admin

- [1] Return to main menu [2] Delete a staff [3] Add new staff

Enter your choice:

renameThis	File.c staff.txt + X
1	S1001, Wong Shun Bin, abc123, fish, Admin
2	S1002,Ooi Jun Kang,abc123,coffee,Admin
3	

3. Adding a Record: The user selects "Add Staff" and enters the details of the new staff member.

Staff Control Panel

- [1] Add New Staff
- [2] Search Staff Details [3] View Staff Details [4] Edit Staff Detail

- [5] Delete Staff Detail
- [6] Back up Staff Detail
- [0] Back to menu

Enter your choice: 1

_____ Enter New Staff

Enter ID: S1003

Enter name: Chaw Chun Jia Enter password: chunjia1234

Enter password recovery: chunjia1111

Enter Position: Staff

Confirm the information (Y/N): Y Data has been stored in staff.txt. Enter another staff? (Y/N): N

4. Modify a Record: The user selects "Modify Staff" and edit the field they wanted to edit.

Staff Control Panel [1] Add New Staff
[2] Search Staff Details [3] View Staff Details [4] Edit Staff Detail
[5] Delete Staff Detail
[6] Back up Staff Detail [0] Back to menu Enter your choice: 4 _____ Edit Profile Name : Wong Shun Bin Password : abc123 Position : Admin [1] Name [2] Password [3] Position [0] Exit >> 3 Enter new Position: Boss Edit Profile Name : Wong Shun Bin
Password : abc123
Position : Boss Edit: [1] Name [2] Password [3] Position [0] Exit >>

5. Deleting a Record: The user selects "Delete Staff" to remove a staff from the system.

Staff Control Panel _____

[1] Add New Staff

[2] Search Staff Details [3] View Staff Details [4] Edit Staff Detail

[5] Delete Staff Detail

[6] Back up Staff Detail

[0] Back to menu

Enter your choice: 5

_____ Delete Staff Information _____

Enter Staff Id that you want to delete:S1002

Staff details found: Name: Ooi Jun Kang Position: Admin

Are you sure you want to delete this staff? (Y/N): Y

Staff deleted successfully. Staff information updated. Press any key to continue . . .

View Staff Information

ID	Name	Password	Password Recov	Position
	Wong Shun Bin Chaw Chun Jia		fish chunjia1111	Boss Staff

- [1] Return to main menu
- [2] Delete a staff [3] Add new staff

Enter your choice:

enameThisFile.c	staff.txt + ×
1 S1001, Won	g Shun Bin,abc123,fish,Boss
2 S1003, Cha	w Chun Jia,chunjia1234,chunjia1111,Staff
3	

6. Search Staff: Allows the staff to search staff.

Staff Control Panel

Staff Control Panel

Staff Control Panel

Search Staff Details

Search Staff Details

Search Staff Detail

Search Staff Detail

Search Staff Information

Staff ID: S1001

Staff Name: Wong Shun Bin Staff Position: Boss

Search Staff Position: Boss

Press any key to continue . . .

7. **Backup Staff Details:** Backup the file of staff to another file.

Back Up Staff Records

Do you want to backup staff record (Y/N)?Y

backup_Staff.txt +> x renameThisFile.c

1 S1001,Wong Shun Bin,abc123,fish,Boss
2 S1003,Chaw Chun Jia,chunjia1234,chunjia1111,Staff
3

4.2 Member Management by Ooi Jun Kang

4.2.1 Description

The Member Information Module serves as the cornerstone for managing all member-related activities within the train ticketing system. It provides functionalities to add, view, modify, search member information, update member details and password recovery, ensuring accurate and secure storage of member data. This module caters to both administrative needs and member interactions, facilitating smooth operations and personalized services.

4.2.2 Outputs & File Contents

1. Module's Main Page: Staff Side

Member Control Panel
<pre>[1] View all member [2] Import member list [3] Back up member list [4] Enter new member [5] Delete member [0] Back to menu</pre>
Enter your choice:

User Side

>>

2. File's Existing Data: The user selects "Display Member" to view existing member records.

Staff Side

_____ Member Control Panel _____ [1] View all member
[2] Import member list
[3] Back up member list
[4] Enter new member
[5] Delete member
[0] Back to menu

Enter your choice: 1

ID	Name	Password	Password Recov	Gender	IC	Contact Number
M1002	. Khoo Jing Hong ! Ooi Jian Xin ! Chaw Chun Jia	abc123 001122 okok123	numbers coffee pwrecov	M F M	050614-08-1235 710210-07-2222 202020-20-0202	017-4453453

- [1] Return to main menu [2] Add new member

Enter your choice:

m	ember.txt	→ X renameThisFile.c
	1	M1001,Khoo Jing Hong,abc123,numbers,M,050614-08-1235,011-7275485
	2	M1002,Ooi Jian Xin,001122,coffee,F,710210-07-2222,017-4453453
	3	M1003,Chaw Chun Jia,okok123,pwrecov,M,202020-20-0202,011-2222222
	4	

3. Adding a Record: The user selects "Add Member" and enters the details of the new member.

_____ Member Control Panel _____

- [1] View all member
- [2] Import member list
- [3] Back up member list
- [4] Enter new member
- [5] Delete member [0] Back to menu

Enter your choice: 4

Enter New Member _____

Enter ID: M1004

Enter name: Goh Chun Wen Enter password: abc123

Enter password recovery: abc123

Enter gender (M/F): M Enter IC: 040412-14-1111

Enter contact number: 011-12345678 Confirm the information (Y/N): Y Data has been stored in member.txt. Enter another member? (Y/N): N

4. Modify a Record: The user select "Modify Member" and edit the field they wanted to edit.

_____ Member Module ========== [1] Edit profile [2] Buy Ticket [3] Modify Booking [4] Search Train [5] Display Available Train [6] Generate Ticket [7] Check Booking [0] Logout >> 1 _____ Edit Profile _____ Name : Goh Chun Wen Gender : M IC : 040412-14-1111 Contact Number: 011-12345678 Edit: [1] Name [2] Password [3] Gender [4] IC [5] Contact Number [0] Exit >> 3 Enter new gender: F Gender updated successfully. Edit Profile Name : Goh Chun Wen Gender : F IC : 040412-14-1111 Contact Number: 011-12345678

[4] IC

[5] Contact Number

[0] Exit

5.	Deleting a Record:	The user selects	"Delete Member"	' to remove a membe	er from the
	system.				

_____ Member Control Panel _____ [1] View all member [2] Import member list [3] Back up member list [4] Enter new member [5] Delete member [0] Back to menu Enter your choice: 5 _____ Delete Member _____ Enter the ID of the member to delete: M1003 Member found: Name: Chaw Chun Jia Gender: M IC: 202020-20-0202 Contact Number: 011-2222222 Are you sure you want to delete this member? (Y/N): Y

Member deleted successfully.
Press any key to continue . . .

6. Display File's Updated Data: After confirmation, the system updates the file with the new member record.

ID	Name	Password	Password Recov	Gender	IC	Contact Number
M1002 M1003	Khoo Jing Hong Ooi Jian Xin Chaw Chun Jia Goh Chun Wen	abc123 001122 okok123 abc123	numbers coffee pwrecov abc123	M F M F	050614-08-1235 710210-07-2222 202020-20-0202 040412-14-1111	017-4453453 011-2222222

- [1] Return to main menu [2] Add new member

Enter your choice:

ľ	mem	ber.txt	→ × renameThisFile.c
		1	M1001,Khoo Jing Hong,abc123,numbers,M,050614-08-1235,011-7275485
(2	M1002,Ooi Jian Xin,001122,coffee,F,710210-07-2222,017-4453453
		3	M1003,Chaw Chun Jia,okok123,pwrecov,M,202020-20-0202,011-2222222
		4	M1004,Goh Chun Wen,abc123,abc123,F,040412-14-1111,011-12345678
		5	

7. **Password Recovery:** Recover password of the member.

Password Recovery

Enter ID: M1001

Enter password recovery term: numbers

Enter new password: *****
Confirm new password: *****

Password changed successfully. Enter ID:

4.3 Train Scheduling by Chaw Chun Jia

4.3.1 Description

The Train Scheduling Module is pivotal in orchestrating the movement of trains within the train ticketing system. It provides comprehensive functionalities to manage train schedules, including departure and arrival times, destinations, ticket prices, and seat availability. It also allows the user to modify train information of existing trains, display every created train, delete train and view train report. This module ensures efficient utilization of resources and seamless coordination of train services, enhancing the overall travel experience for passengers.

4.3.2 Outputs & File Contents

1. Module's Main Page:

Train Scheduling Control Panel

[1] Add new train for departure
[2] Search available train
[3] Modify train information
[4] Display all train available
[5] Delete Certain Train
[6] View Train Report
[0] Back To Menu

Enter your choice:

2. File's Existing Data: The user selects "Display Train" to view existing train records.

Train Scheduling Control Panel

- [1] Add new train for departure

- [2] Search available train
 [3] Modify train information
 [4] Display all train available
- [5] Delete Certain Train
- [6] View Train Report
- [0] Back To Menu

Enter your choice: 4

		All Train Availa	ble		
Train ID	Departure Station	Arrival Station	Departure Time	Departure Date	Available Seat
T1001	Subang	Setapak	10:00	12-05-2024	52
T1002	Kepong	Setapak	12:00	11-05-2024	50
T1003	Cheras	Puchong	16:00	30-04-2024	50
T1004	Damansara	Bangsar	14:00	02-05-2024	52

⁴ record found in file.

Enter 'Y' to return menu. >>>>>>

3. Adding a Record: The user selects "Add Train" and enters the details of the new

Enter Train ID (eg:T1001) : T1005 Enter Departure Station : KLCC Enter Arrival Station : KNCC Enter Departure Time(eg:23:30) : 12:10 Enter Departure Date(eg:31-12-2024): 4-5-2024

Enter Available Seats : 20

Train ID : T1005 Departure Station: KLCC Arrival Station : KNCC Departure Time : 12:10
Departure Date : 04-05-2024
Available seats : 20

Confirm Your information are correct:

[1] Correct

[2] Incorrect (Re-Enter Again)

[3] Back To Schedulling Menu without saving

>>>>> 1

Data Saved

Enter more Information? (Press 'Y'): N

4. Modify a Record: The user select "Modify Train" and edit the field they wanted to edit.

Enter your choice: 3

Enter Train ID you're Train ID Departure St T1005 KLCC	going to modify: T1005 ation Arrival Station KNCC	Departure Time 12:10	Departure Date 04-05-2024	Available Seat 20		
[2] Edit Arrival Stati [3] Edit Departure Tim [4] Edit Departure Dat [5] Edit Available sea	[1] Edit Departure Station [2] Edit Arrival Station [3] Edit Departure Time [4] Edit Departure Date [5] Edit Available seat [6] Return to schedulling menu					
Edit available seat: 9						
	Train Information					
Train ID Departure St T1005 KLCC	ation Arrival Station KNCC	Departure Time 12:10	Departure Date 04-05-2024	Available Seat 90		

Enter 'Y' for editing more information.
Enter 'N' for back to schedulling menu.
>>>>>>>>>

5. Deleting a Record: The user selects "Delete Train" to remove a train from the system.

_____ Train Scheduling Control Panel _____

- [1] Add new train for departure
- [2] Search available train
- [3] Modify train information
- [4] Display all train available [5] Delete Certain Train
- [6] View Train Report
- [0] Back To Menu

Enter your choice: 5

		All Train Availab	ole						
Train ID	Departure Station	Arrival Station	Departure Time	Departure Date	Available Seat				
T1001	Subang	Setapak	10:00	12-05-2024	52				
T1002	Kepong	Setapak	12:00	11-05-2024	50				
T1003	Cheras	Puchong	16:00	30-04-2024	50				
T1004	Damansara	Bangsar	14:00	02-05-2024	52				
T1005	KLCC	KNCC	12:10	04-05-2024	90				
Enter a T	rain ID to delete:	T1002							
Deleting	Deleting the record								
Record T1	Record T1002 deleted successfully								

Enter 'Y' to delete more or 'N' to return to scheduling menu.

6. Display File's Updated Data: After confirmation, the system updates the file with the new train record.

		All Train Availa	ble		
Train ID	Departure Station	Arrival Station	Departure Time	Departure Date	Available Seat
T1001	Subang	Setapak	10:00	12-05-2024	52
T1003	Cheras	Puchong	16:00	30-04-2024	50
T1004	Damansara	Bangsar	14:00	02-05-2024	52
T1005	KLCC	KNCC	12:10	04-05-2024	90

⁴ record found in file.

Enter 'Y' to return menu.

7. Backup Train Scheduled: Backup the current Train Information into another backup file to prevent lost of data.

Train Sch ====================================	eduling Control Pane eduling Control Pane new train for depar rch available train ify train informatio play all train avail ete Certain Train kup Train	ol := rture on				
[0] Bac	k To Menu					
Train ID T1001 T1003 T1004 T1005	r choice: 6 Departure Station Subang Cheras Damansara KLCC	All Train Availabl Arrival Station Setapak Puchong Bangsar KNCC	e Departure Time 10:00 16:00 14:00 12:10	Departure Date 12-05-2024 30-04-2024 02-05-2024 04-05-2024	Available S	Seat 52 50 52 90
4 record	found in file.					
	kup Current Train to play Current Backup k To Menu					
Backup	Completed					
[2] D:	ackup Current Tra isplay Current Ba ack To Menu					
Train ID T1001 T1003 T1004 T1005	Train Departure Station Subang Cheras Damansara KLCC	Information Arrival Station Setapak Puchong Bangsar KNCC	Departure Time 10:00 16:00 14:00 12:10	Departure Date 12-05-2024 30-04-2024 02-05-2024 04-05-2024	Available S	Seat 52 50 52 90

[1] Backup Current Train to File
[2] Display Current Backup Train
[3] Back To Menu
>>

4.4 Ticket Booking by Goh Chun Wen

4.4.1 Description

The Ticket Booking Module serves as the primary interface for passengers to reserve and purchase train tickets within the train ticketing system. It provides a user-friendly experience, allowing passengers to buy ticket, modify booking, browse available train schedules, display all available train, generating ticket, and check their booking. This module streamlines the ticket booking process, ensuring convenience and efficiency for passengers while facilitating revenue generation for the railway company.

4.4.2 Outputs & File Contents

1. Module's Main Page:

>>

2. File's Existing Data: The user selects "Display Available Train" to view available train.

_	_	_	_	_	_	_	_	_	_	_	_	_
М	e	m	b	e	r		М	0	d	u	ι	e
=	_	_	=	_	_	_	_	_	_	_	_	_

[1] Edit profile

[2] Buy Ticket
[3] Modify Booking

[4] Search Train

[5] Display Available Train

[6] Generate Ticket

[7] Check Booking

[0] Logout

>> 5

All Trains

______ Train ID Departure Station Arrival Station Departure Time Departure Date Available Seat T1001 Subang Setapak 10:0 12-05-2024 30-04-2024 T1003 Cheras Puchong 16:0 50 02-05-2024 T1004 14:0 52 Damansara Bangsar T1005 KLCC KNCC 12:10 04-05-2024 Menu:

[1] Buy Ticket(s)
[2] Return to Menu

Enter your choice:

3. Adding a Record: The user selects "Buy Ticket" to book a train ticket.

Welcome to Ticket Booking Module!

Enter your Departure Station: KNCC

Enter your Arrival Station: KLCC
Train ID Departure Station Arrival Station Departure Time Departure Date T1001 KNCC KLCC 12:12 12-02-2023 Available Seat

Enter Train ID to book:

Welcome to Ticket Booking Module!

Enter your Departure Station: KNCC Enter your Arrival Station: KLCC

Train ID Departure Station Arrival Station Departure Time Departure Date Available Seat T1001 KNCC KLCC 12:12 12-02-2023 120

T1001 KNCC Enter Train ID to book: T1001

Enter the number of seats you want: 4

Total payment will be (RM10 x 4) : RM40.00

Please Select Your Payment Method:

[1]Credit Card

[2]Cash

[3]Ewallet

[4]Cancel Booking

3

Payment Successful. Your booking details are as below:

: B1030 Booking ID Customer ID : M1001

Customer Name : Khoo Jing Hong

Payment Method : Ewallet Train ID : T1001 Departure Station : KNCC

Departure Date : 12-02-2023 Departure Time : 12:0212 Seats Booked : 4

Press any key to continue . . .

4. Checking a Booking: The user select "Check Booking" and check the booking they've made. _____

Member Module _____ 1] Edit profile 2] Buy Ticket 3] Modify Booking 4] Search Train 5] Display Available Train 6] Generate Ticket 7] Check Booking 0] Logout

Check Booking ==========

Your bookings:

Booking ID Customer ID Customer Name Departure Date Departure Time B1030 M1001 Khoo Jing Hong 12-2-2023 12:12

Enter Booking ID to view details (0 to exit to menu): B

_____ Check Booking _____

Your bookings:

Booking ID Customer ID Customer Name Departure Date Departure Time B1030 M1001 Khoo Jing Hong 12-2-2023 12:12 Enter Booking ID to view details (0 to exit to menu): B1030

Booking ID: B1030 Customer ID: M1001

Customer Name: Khoo Jing Hong

Payment Method: Ewallet

Train ID: T1001

Departure Station: KNCC Departure Date : 12-2-2023 Departure Time : 12:12 Requested Seats: 4

Enter Booking ID to view details (0 to exit to menu): B

5. Cancelling a booking: The user selects "Modify Booking" to modify a booking they've made.

>> 3

Your bookings:

===========						
Booking ID	Customer ID	Customer Name	Departure Date	Departure Time		
========						
B1030	M1001	Khoo Jing Hong	12-05-2024	10:0		
B1031	M1001	Khoo Jing Hong	11-05-2024	12:0		
Select booki	ng to be modi	fied (0 to cancel): B1030				
Enter new nu	mber of seats	(0 to delete): 0				
Booking deleted successfully. Press any key to continue						
Press any ke	y to continue					

6. Display File's Updated Data: After confirmation, the system updates the file with the new Booking record.

Check Booking

Your bookings:

Booking ID Customer ID Customer Name Departure Date Departure Time

B1031 M1001 Khoo Jing Hong 11-5-2024 12:0

Enter Booking ID to check details (0 to exit): B

7. Search Train availability: Search for train with departure and arrival station

Search Train

Enter your Departure Station: KLCC Enter your Arrival Station: KNCC

========					
Train ID	Departure Station	Arrival Station	Departure Time	Departure Date	Available Seat
=======					
T1005	KLCC	KNCC	12:10	04-05-2024	90
Press any	key to continue				

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