CCPROG1
Machine Project
Ticket Booking v2
Julian, Jedidiah Kyle Martin
S13A

Test Cases:

Function name	#	Test description	Sample Input	Expected Result	Actual Result	Test Result
ExecuteBookTicket()	1	The user inputs an ID number and checks if it is valid and if the user still needs to book a seat. If both are satisfied, the user can book a seat	Enter ID number: 12307211	Book a seat: 1 Booking successful!	Book a seat: 1 Booking successful!	Passed
	2	The user inputs an invalid ID number	Enter ID number: 1	Booking unsuccessful Possible reasons: ID number is invalid ID Number is assigned to a seat already	Booking unsuccessful Possible reasons: ID number is invalid ID Number is assigned to a seat already	Passed
	3	The user inputs an ID number that has been used already Sample: *ID number 12307211 has already taken a seat*	Enter ID number: 12307211	Booking unsuccessful Possible reasons: ID number is invalid ID Number is assigned to a seat already	Booking unsuccessful Possible reasons: ID number is invalid ID Number is assigned to a seat already	Passed

	4	The user inputs a taken seat	Enter ID number: 12157988	Book a seat: 1 Booking cannot be made as seat is not available	Book a seat: 1 Booking cannot be made as seat is not available	Passed
	5	A new ID number and a different seat	Enter ID number: 12157988	Book a seat: 2 Booking successful!	Book a seat: 2 Booking successful!	Passed
	6	User tries to enter a character	Enter ID number: p	Booking unsuccessful Possible reasons: ID number is invalid ID Number is assigned to a seat already	Booking unsuccessful Possible reasons: ID number is invalid ID Number is assigned to a seat already	Passed
	7	User tries to enter a seat number that is not in the range of available bus seats 1-14	Book a seat: 25	Book a seat: 25 Invalid seat number	Book a seat: 25 Invalid seat number	Passed

Function name	#	Test description	Sample Input	Expected Result	Actual Result	Test Result
ExecuteCancelTicket ()	1	The user tries to cancel without any bookings stored in that ID number	Enter ID number: 10329978	No records found	No records found	Passed
	2	The user tries to cancel a booking	Enter ID number: 12157988	Booking found! Seat: 2 | ID number: 12157988 Do you want to cancel your ticket? [1] Yes or [0] No:	Booking found! Seat: 2 | ID number: 12157988 Do you want to cancel your ticket? [1] Yes or [0] No:	Passed
	3	The user decides not to cancel the booking	Booking found! Seat: 2 | ID number: 12157988 Do you want to cancel your ticket? [1] Yes or [0] No: 0	Cancel unsuccessful	Cancel unsuccessful	Passed
	4	The user decides to cancel the booking	Booking found! Seat: 2 | ID number: 12157988 Do you want to cancel your ticket? [1] Yes or [0] No: 1	You have successfully cancelled your ticket!	You have successfully cancelled your ticket!	Passed

Function name	#	Test description	Sample Input	Expected Result	Actual Result	Test Result
executeUpdateDepartureTime()	1	Agent (User) tries to input password Correct password (1111)	10000	Incorrect password	Incorrect password	Passed
	2	User inputs time below 4:00 AM	3:00 AM	Time cannot be updated!	Time cannot be updated!	Passed
	3	User inputs future time	7:00 AM	New time: 07:00 AM Route available: Depart Laguna - Arrive Manila	New time: 07:00 AM Route available: Depart Laguna - Arrive Manila	Passed
	4	User tries to input past time after departure time was updated Updated time: 7:00 AM	5:00 AM	Time cannot be updated!	Time cannot be updated!	Passed
	5	User transitions from AM to PM	2:00 PM	New time: 02:00 PM Route available: Depart Manila - Arrive Laguna	New time: 02:00 PM Route available: Depart Manila - Arrive Laguna	Passed
	6	User tries to input time not available in the schedule	9:00 PM or 2:00 AM	Time cannot be updated!	Time cannot be updated!	Passed

Function name	#	Test description	Sample Input	Expected Result	Actual Result	Test Result
ExecuteDisplayScheule ()	1	If time in update time function is valid it should display the present time as [P], past time as [D] and next available time as [N] and so on	5:00 AM	[1] Depart Manila: 04:00 AM : Arrive Laguna: 05:00 AM - [D] [2] Depart Laguna: 05:00 AM : Arrive Manila: 06:00 AM - [P] [3] Depart Manila: 06:00 AM : Arrive Laguna: 07:00 AM - [N]	[1] Depart Manila: 04:00 AM : Arrive Laguna: 05:00 AM - [D] [2] Depart Laguna: 05:00 AM : Arrive Manila: 06:00 AM - [P] [3] Depart Manila: 06:00 AM : Arrive Laguna: 07:00 AM - [N]	Passed
	2	If time in the update time function is not valid or does not successfully update, the schedule should remain as is Sample current time: 5:00 AM	3:00 AM Time cannot be updated	[1] Depart Manila: 04:00 AM : Arrive Laguna: 05:00 AM - [D] [2] Depart Laguna: 05:00 AM : Arrive Manila: 06:00 AM - [P] [3] Depart Manila: 06:00 AM : Arrive Laguna: 07:00 AM - [N] …	[1] Depart Manila: 04:00 AM : Arrive Laguna: 05:00 AM - [D] [2] Depart Laguna: 05:00 AM : Arrive Manila: 06:00 AM - [P] [3] Depart Manila: 06:00 AM : Arrive Laguna: 07:00 AM - [N] …	Passed
	3	User decides to go back to main menu using any character or integer	1 or c	Exits function	Exits function	Passed

Function name	#	Test description	Sample Input	Expected Result	Actual Result	Test Result
ExecuteMainMenu()	1	If user selects A or a the program should enter the book ticket function	A or a	Enters Book Ticket function	Enters Book Ticket Function	Passed
	2	If user selects B or b the program should enter the cancel booking function	B or b	Enters cancel booking function	Enters cancel booking function	Passed
	3	If user selects C or c the program should enter display schedule	C or c	Enters display schedule function	Enters display schedule function	Passed
	4	If user selects D or d the program should enter the update departure time schedule	D or d	Enters update departure time function	Enters update departure time function	Passed
	5	If user selects E or e it should prompt user if they want to close the application	E or e	Are you sure you want terminate the program? All data will be removed [1] Yes or [0] No:	Are you sure you want terminate the program? All data will be removed [1] Yes or [0] No:	Passed
	6	The user changes their mind about cancelling the exiting the program	0	Enters Main Menu again	Enters Main Menu again	Passed

	7	The user decides to go through exiting the program	1	Exits the program	Exits the program	Passed
	8	Invalid inputs in main menu	6	Invalid input. Please Try again	Invalid input. Please Try again	Passed

Valid ID numbers for testing:

12307211
12157988
12158798
12322415
12306010
12311081
12371890
12164240
12306053
12155195
12152706
12164445
12307092
12010499
10329978