

Phase1 Feedback

General Comments	Overall Design (25 marks)
Class Diagram General Class implementation Relevant attributes Inheritance/Aggregation/Composition/ Interface Implemented based on Object Oriented Concepts.	 Class diagram → 5 marks (2 marks classes, 3 marks relationships) Class Admin → 2 marks Class Train → 3 marks Class Passenger → 3 marks Class Route → 3 marks Class Ticket → 2 marks Class Booked_Tickets → 3 marks (different implementations are accepted) Class Station or Main (that involves collections of trains, admins and Passengers) → 2 marks. Any example of Inheritance/Aggregation/Composition/Interface. → 2 marks
Methods that should be provided for Admins	Detailed design of each class (50 marks) Notes → Display methods just take maximum 1 mark Notes → methods should be in suitable classes according to OO concepts, not all in one class or in Main class
 Manage Account Search for a specific admin from the collection and update the required information. 	3 marks: - 2 marks for correct search - 1 mark for correct update.
 Add Train: The method should take the information of the new train. Add the train as an object in the Trains collection. 	4 marks: - 2 marks for taking correct information and passing correct parameters. - 2 marks for adding in trains' collection.



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 Remove Train: Search for the train to be removed within the collection. Remove the train from the collection. 	4 marks: - 2 marks for correct search - 2 marks for removing.
 Update Train stored data: Search for the specified train within the collection. Update the train data. 	4 marks: - 2 marks for correct search 2 marks for update.
 Generate Reports: The method should search in the booked collection for the booking of a certain route. The method should calculate the total fare of this route by summing up the fares collected. The method should display the total number of bookings and the total fare collected. 	 6 marks: 2 marks for first point. 2 marks for second point. 2 marks for third point.
Methods that should be provided for Passenger.	
 Create Account: The method should add the new Passenger in the collection of Passengers. 	4 marks: - 2 marks for taking input 2 marks for adding in collection.
 Manage Account Search for a specific passenger from the collection and update the required information. 	3 marks: - 2 marks for correct search - 1 mark for correct update
 Book a ticket: The passenger should select origin and destination of a route, timing slot and seat number from the available seats. The method should add the new booking to the Booked collection. The passenger should be allowed to reserve more than one seat. 	6 marks: - 2 marks for first point 2 marks for second point 2 marks for third point.
 Cancel Booking: The method should search the booked collection for the one to be canceled. The canceled booking should be removed from the booked collection. The seats should be made available again. Update Booking: 	6 marks: - 2 marks for first point. - 2 marks for second point. - 2 marks for third point. 6 marks:
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 The method should search the booked collection for the one to be updated. Cancel booking method could be called (or it is implemented again). Book a ticket method could be called (or it 	 2 marks for first point. 2 marks for second point. 2 marks for third point.
is implemented again) • View tickets:	4 marks
 View tickets: The method should display for the passenger his list of booked tickets by displaying his collection of booked tickets. 	+ IIIai v2
Proper use of Collections	Proper use of Collections (12.5 marks)
Collections needed: - A collection for Admins - A collection for Passengers - A collection for Trains - A collection of Train_routes - A collection of tickets_per_route A collection for Booked tickets (different implementations are accepted) Class Implementation and Testing in main	2 marks for each collection, but booked tickets 2.5 Class Implementation & Testing in
	main (12.5 marks)
 Login: Displaying menus should be based on the correct login 	1.5 marks for two different Access level.
 Test all methods: A scenario for calling 11 essential methods Insert meaningful data for testing. Using appropriate display methodology 	Calling 11 essential methods in appropriate scenario → 11 marks.