

Test Summary and Execution Report				
Personal Project		Test Types:	Functional, Validation, and Negative Testing.	
		Test Methodologies:	Automated unit and integration testing using the JUnit framework; requirement-based and scenario-driven validation of core modules (SeatReserver, SeatingPlan, SellTicket, Passenger).	
		Pre-condition	System initialized with 14 total seats (2 Business, 12 Economy); ticket sequence starts at 1,000,000; console I/O simulation enabled for test data DS1-DS9.	
Project Name:	Airplane Ticket Java Application	Dependencies:	Modules: SeatingPlan, SeatReserver, SellTicket, Passenger, and Ticket classes; dependent on internal seat and passenger state persistence.	
Module Name:	Ticket Purchase Flow	Test Priority	P1 - Seat allocation limits, ticket pricing, and rule validation P2 - Input handling, passenger type, and business logic conditions P3 - Edge-case prompt and loop tests	
Release Version:	v1.0	Total Requirements	11	
Test Designed by:	Garam Yoon	Covered Requirements	BR: 01, 02, 03, 04, 05, 07 NO: 01, 02, 03, 04	
Test Designed date:	2025-09-02	Total Test Cases	16	
Test Executed by:	Garam Yoon	Tested Requirements	11	
Test Execution date:	2025-09-02	Executed Tests	16	
Legends				
Test Data Sets Definition (DS):		Prompt Map:		
DS1: "Y", "y", "Yes" - Affirmative input used for Yes-type prompts.		Q1: "Do you want to purchase a ticket?"		
DS2: "N", "n", "No" - Negative input used for No-type prompts.		Q2-B: "Do you want BUSINESS class?"		
DS3: (empty) - Null or empty input used for validation testing.		Q2-E: "Do you want ECONOMY class?"		
DS4: "quit", 123 - Invalid input for prompt validation testing.		Q3: "First name?"		
DS5: "Garam", "garam" - Sample first name input.		Q4: "Last name?"		
DS6: "Yoon", "yoon" - Sample last name input.		Q5: "Initial?"		
Output Messages:		Repetition Map:		
OUTPUT: Ticket issued: 1000001 for seat 1B at \$750.0 - Standard success message after ticket issuance.		1R: Repeat 1 - First repetition due to invalid input.		
Validation Message: "Please answer Y or N" - Prompt validation message for incorrect input.		2R: Repeat 2 - Second repetition due to invalid input.		
		3R: Repeat 3 - Third and final repetition before termination.		
Loop Definition:				
L1: Loop1 - First full execution of the purchase cycle.				
L2: Loop2 - Second purchase cycle iteration.				
L3: Loop3 - Third loop or system re-entry iteration.				

