**Questions for Debugging Assignment**  
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**Instructions**  
Work in teams of at most two. Do the class work. Discuss and answer the following questions  
together.

**Marks**  
This assignment is marked out of 10.

**Team**   
The team (group) can be created of at most two students. Only one is required to post the answers using the associated A2\_Debugging\_Questions\_Answers.docx document as a template.

**Questions**   
**1. What class is the driver for this slice of the application? (0.5)**

The Manifest class is the driver for this slice of the application.

**2. What major part of the application is replaced by a stub? Name the class(es) that make up this stub.  
(0.5)**

The Manifest and UserPrompter classes are stubs. They are expected to be replaced in the final implementation as the graphical user interface.

**3. List three defects that you located in the original code and describe them as you would in a tester’s defect report. Describe where the user is using the system and what the user input is. Then state how the system response deviated from the expected output. (6).**  
  
**a. Where:** As an Airline employee, I am trying to book a flight for a passenger and see their name next to their assigned seat but it is not displayed. (Based on Requirement 7: *“Before ending, the Manifest class prints a list of all seats followed by the name of the passenger who owns a ticket for that seat or the word “Available” if the seat was not sold.”*)

**User input:**

Flight open for ticket sales.

Seating plan has 14 seats.

Do you want to purchace a ticket? Y

Do you want BUSINESS class? N

Do you want ECONOMY class? Y

First name? G

Last name? G

Initial? G

Are you a frequent flyer? N

Are you an airline employee? N

Ticket issued: 1000001 for seat 4C at $500.0

Do you want to purchace a ticket? N

**System response:**

* System does not display Name of the passenger beside a sold seat.
* System should not say available next to a sold seat.

Flight manifest

1A Available

1B Available

2A Available

2B Available

2C Available

2D Available

3A Available

3B Available

3C Available

3D Available

4A Available

4B Available

4C Available

4D Available

**b. Where:** As an Airline Employee, I am trying to book a flight for a passenger and the system should ask for the Passenger’s name but it asks for the Passengers Initials also. This is not in the requirements or rules. (Based on Requirement 4: *“The UI asks for the passenger name and whether the passenger is a frequent flyer or member of the airline staff.”*)

**User input:**

Flight open for ticket sales.

Seating plan has 14 seats.

Do you want to purchace a ticket? Y

Do you want BUSINESS class? N

Do you want ECONOMY class? Y

First name? Garnett

Last name? Grant

**System response:**

* System asks for Passenger’s Initials when this is not in the Requirements or Rules.

Initial? GG

**c. Where:** As an Airline worker I am trying to book a Business Flight, but the system charges an incorrect price(Based on Business Rule 4: *“Airline employees get a 50% discount on economy seats, but not on business class seats.”*)

**User input:**

Flight open for ticket sales.

Seating plan has 14 seats.

Do you want to purchace a ticket? Y

Do you want BUSINESS class? Y

First name? G

Last name?

Last name? G

Initial? G

Are you a frequent flyer? N

Are you an airline employee? Y

Employee ID? 1235

**System response:**

* System incorrectly gives 50% discount on Business Ticket

Ticket issued: 1000001 for seat 1A at $375.0

**4. Briefly define the term Step in, Step out, Step over and Breakpoint: (2)**

**Step In:** Displays the code of the current line of code by accessing its Java File/associated code origin

**Step Out:** Continues executing the program until it exits the current function and reaches the original caller’s context

**Step Over:** Displays the next line of code following the sequence of execution

**Breakpoint:** A Breakpoint initiates when the debugger should start debugging

**5. Give the Screenshots for the import of jar file into the java IDE , Debug mode and fix of no  
error. (1)**

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**Import of jar file:**

**A screen shot of a computer

Description automatically generated**

**Debug Mode:**  
A screen shot of a computer

Description automatically generated