

### Use Case 1

- System loads database file
- System speaks prompt
  - o Add [P]assenger, Add [G]roup, [C]ancel Reservations, Print Seating [A]vailability Chart, Print [M]anifest, [Q]uit:
- User types “p”
- System speaks prompt
  - o Name:
- User types passenger name
- System speaks prompt
  - o Service Class:
- User types “first” for first class or “economy” for economy class
- System speaks prompt
  - o Seat Preference:
- User types “w” for window, “c” for center, or “a” for aisle seat
- System reserves seat
- System outputs the passenger name and the reserved seat number
- System loops back to step 1

### Variation #1

- In step 9, a seat is not found or the user has entered invalid options
- System displays
  - o Request Failed.
- Return to step 1

### Use Case 2

- System loads database file
- System speaks prompt
  - o Add [P]assenger, Add [G]roup, [C]ancel Reservations, Print Seating [A]vailability Chart, Print [M]anifest, [Q]uit:
- User types “g”
- System speaks prompt
  - o Group Name:
- User types group name
- System speaks prompt
  - o Names(Seperated by commas):
- User enters group member names, separated by commas.
- System speaks prompt
  - o Service Class:
- User types “first” for first class or “economy” for economy class
- System reserves seat(s)
- System outputs each passenger’s name and their reserved seat number
- System loops back to step 1

### Variation #1

- In step 9, a seat is not found or the user has entered invalid options

- System displays the following for failed group member placement
  - o Request Failed.
- Return to step 1

### Use Case 3

- System loads database file
- System speaks prompt
  - o Add [P]assenger, Add [G]roup, [C]ancel Reservations, Print Seating [A]vailability Chart, Print [M]anifest, [Q]uit:
- User types "c"
- System speaks prompt
  - o [I]ndividual or [G]roup Cancellation:
- User types "i"
- System speaks prompt
  - o Names(Seperated by commas):
- User enters names separated by commas
- System removes reservation for the user entered names
- System confirms cancellation by outputting passenger name and seat cancellation
- System loops back to step 1

### Variation #1

- In step 7, a passenger with a matching name is not found or the user has entered invalid options
- System displays the following for failed group member placement
  - o Request Failed.
- Return to step 1

### Variation #2

- In step 4, the user types "g"
- System speaks prompt
  - o Group Name:
- User enters group name
- System removes reservation for members of the group
- Continue with step 8

### Use Case 4

- System loads database file
- System speaks prompt
  - o Add [P]assenger, Add [G]roup, [C]ancel Reservations, Print Seating [A]vailability Chart, Print [M]anifest, [Q]uit:
- User types "a"
- System speaks prompt
  - o Service Class(First or Economy):
- User types "first"
- System outputs the row number and available seats for first class
- System loops back to step 1

### Variation #1

- In step 4, the user types "economy"
- System outputs the row number and available seats for economy class

- Continue with step 6

### **Use Case 5**

- System loads database file
- System speaks prompt
  - o Add [P]assenger, Add [G]roup, [C]ancel Reservations, Print Seating [A]vailability Chart, Print [M]anifest, [Q]uit:
- User types “m”
- System speaks prompt
  - o Service Class(First or Economy):
- User types “first”
- System outputs the row number, seat letter, and passenger name for each reserved first class seat
- System loops back to step 1

### **Variation #1**

- In step 4, the user types “economy”
- System outputs the row number, seat letter, and passenger name for each reserved economy class seat
- Continue with step 6

### **Use Case 6**

- System loads database file
- System speaks prompt
  - o Add [P]assenger, Add [G]roup, [C]ancel Reservations, Print Seating [A]vailability Chart, Print [M]anifest, [Q]uit:
- User types “q”
- System saves data to file
- System outputs
  - o File saved
  - o Reservation Program has finished running.
- Program quits