Output Screenshots

```
Welcome to the Transportation System Manager!
Please choose one of following options:

1. Go to Airport Transportation System
2. Go to Train Transportation System
3. Go to Cruise Transportation System
```

```
Welcome to the Airport Transportation System
Please choose one of the following from menu:

0. Create an airport System from a file
1. Change the price associated with seats in a flight section
2. Query the system for flights with available seats in a given class
3. Change the price of a seat class on a given flight
4. Book a seat given a specific seat on a flight
5. Book a seat on a flight given only a seating preference
6. Display Airport Transportation System
7. Save Airport Transportation System to a file
8. Go to the Admin Menu
9. Go to the Main Menu
```

```
System was build from file successfully

Press Enter to Return to MENU
```

```
List of Airports:
DEN
NYC
SEA
LAX
List of Airlines:
AMER
UNTD
List of Flights:
Flight Number: AA1 Airline Name: AMER Origin Airport: DEN Destination Airport: LAX Date: 10/8/2019
Flight Number: AA2 Airline Name: AMER Origin Airport: LAX Destination Airport: DEN Date: 8/9/2020
Flight Number: UA21 Airline Name: UNTD Origin Airport: NYC Destination Airport: SEA Date: 11/8/2019
Flight Number: UA12 Airline Name: UNTD Origin Airport: SEA Destination Airport: DEN Date: 8/9/2020
List of Flight Sections:
Flight Section E class with section price $200 for flight number AA1 on AMER airline with 4 rows and S columns layout.

Seats in Section: E

window Seat A1, on AMER line and flight AA1 Is Booked: False
window Seat A2, on AMER line and flight AA1 Is Booked: False
window Seat A3, on AMER line and flight AA1 Is Booked: False
window Seat A4, on AMER line and flight AA1 Is Booked: False
aisle Seat B1, on AMER line and flight AA1 Is Booked: False
aisle Seat B2, on AMER line and flight AA1 Is Booked: False
aisle Seat B3, on AMER line and flight AA1 Is Booked: False
aisle Seat B4, on AMER line and flight AA1 Is Booked: False
window Seat C1, on AMER line and flight AA1 Is Booked: False
window Seat C2, on AMER line and flight AA1 Is Booked: False
window Seat C3, on AMER line and flight AA1 Is Booked: False
window Seat C4, on AMER line and flight AA1 Is Booked: False


Flight Section F class with section price $500 for flight number AA1 on AMER airline with 2 rows and S columns layout.

Seats in Section: F

window Seat A1, on AMER line and flight AA1 Is Booked: False
window Seat A2, on AMER line and flight AA1 Is Booked: False
aisle Seat B1, on AMER line and flight AA1 Is Booked: False
aisle Seat B2, on AMER line and flight AA1 Is Booked: False
window Seat C1, on AMER line and flight AA1 Is Booked: False
window Seat C2, on AMER line and flight AA1 Is Booked: False


Flight Section E class with section price $200 for flight number AA2 on AMER airline with 5 rows and S columns layout.

Seats in Section: E

window Seat A1, on AMER line and flight AA2 Is Booked: False
window Seat A2, on AMER line and flight AA2 Is Booked: False
```

```
Please enter the FlightID:
AA1
Sections on Flight: AA1
Seat Class : E Price: $200
Seat Class : F Price: $500
Please enter the section to change the price of:
E
Please enter new price
5
Success: The price for Section E was successfully change to $5!

Press Enter to Return to MENU
```

```
Available Seats for Flight DEN to LAX
F class seats available
Seat A1, on AMER line and flight AA1 Is Booked: False Price: $500
Seat A2, on AMER line and flight AA1 Is Booked: False Price: $500
Seat B1, on AMER line and flight AA1 Is Booked: False Price: $500
Seat B2, on AMER line and flight AA1 Is Booked: False Price: $500
Seat C1, on AMER line and flight AA1 Is Booked: False Price: $500
Seat C2, on AMER line and flight AA1 Is Booked: False Price: $500
F class seats available
Seat A1, on AMER line and flight AA1 Is Booked: False Price: $500
Seat A2, on AMER line and flight AA1 Is Booked: False Price: $500
Seat B1, on AMER line and flight AA1 Is Booked: False Price: $500
Seat B2, on AMER line and flight AA1 Is Booked: False Price: $500
Seat C1, on AMER line and flight AA1 Is Booked: False Price: $500
Seat C2, on AMER line and flight AA1 Is Booked: False Price: $500

Press Enter to Return to MENU
```

```
Welcome to the Airport Transportation System
Please choose one of the following from menu:

0. Create an airport System from a file
1. Change the price associated with seats in a flight section
2. Query the system for flights with available seats in a given class
3. Change the price of a seat class on a given flight
4. Book a seat given a specific seat on a flight
5. Book a seat on a flight given only a seating preference
6. Display Airport Transportation System
7. Save Airport Transportation System to a file
8. Go to the Admin Menu
9. Go to the Main Menu
3
Please enter the Airline Name. Ex: AMER
AMER
Please enter the Origination Airport. Ex: GEG
DEN
Please enter the Destination Airport. Ex: LAX
LAX
Please enter the class. Ex: Economy
Economy
Please enter new class price.
5

Press Enter to Return to MENU
```

```
0. Create an airport System from a file
1. Change the price associated with seats in a flight section
2. Query the system for flights with available seats in a given class
3. Change the price of a seat class on a given flight
4. Book a seat given a specific seat on a flight
5. Book a seat on a flight given only a seating preference
6. Display Airport Transportation System
7. Save Airport Transportation System to a file
8. Go to the Admin Menu
9. Go to the Main Menu
4
Please enter the FlightID:
AA1
Please enter a seat class (F/B/E)
F
Displaying all seats for that section
window Seat A1, on AMER line and flight AA1 Is Booked: False
window Seat A2, on AMER line and flight AA1 Is Booked: False
aisle Seat B1, on AMER line and flight AA1 Is Booked: False
aisle Seat B2, on AMER line and flight AA1 Is Booked: False
window Seat C1, on AMER line and flight AA1 Is Booked: False
window Seat C2, on AMER line and flight AA1 Is Booked: False

Please enter a seat number:
A1
Success: Seat (A1) with Seat Class F on Flight AA1 with AMER airline  Booked!

Press Enter to Return to MENU
```

```
Welcome to the Airport Transportation System
Please choose one of the following from menu:

0. Create an airport System from a file
1. Change the price associated with seats in a flight section
2. Query the system for flights with available seats in a given class
3. Change the price of a seat class on a given flight
4. Book a seat given a specific seat on a flight
5. Book a seat on a flight given only a seating preference
6. Display Airport Transportation System
7. Save Airport Transportation System to a file
8. Go to the Admin Menu
9. Go to the Main Menu
5
Please enter the FlightID:
AA1
Please enter the desired seat Class (F/B/E):
F
Please enter the desired Seating Preference ( W = window, A = aisle):
W
Success: F class window seat, number: A2 was booked on trip AA1 for $500!

Press Enter to Return to MENU
```

```
Welcome to the Administrator Menu of the Airport Transportation System
Please choose one of the following from menu:

1. Create an Airport
2. Create an Airline
3. Create a Flight
4. Create a Section
5. Display Airport Transportation System
6. Go to the Main Menu
```

```
Creating an Airport...
Please enter the Airport name:
SPOKE
Success: AirPort SPOKE Successfully Created!

Press Enter to Return to MENU
```

```
Creating an Airline...
Please enter the Airline name:
FRONT
Success: AirLine FRONT Successfully Created!

Press Enter to Return to MENU
```

```
Creating a Flight...
Please enter Airline Name:
FRONT
Please enter Origination Airport:
SPOKE
Please enter Destination Airport:
NYC
Please enter FlightID:
fl123
Please enter Date and Time of the flight. Ex: mm/dd/yyyy/hh/mm
10/10/2020/10/10
Success: Flight fl123 Successfully Created!

Press Enter to Return to MENU
```

```
Creating a Flight Section...
Please enter Airline Name:
FRONT
Please enter FlightID:
fl123
Please enter Flight Class. Ex: E, F, B
E
Please enter class price:
1000
Please enter number of rows:
5
Please enter type of columns. Ex: S, M, W
S
Success: Flight Section (5 rows, S layout) with Seat Class E and price 1000 on Flight fl123 with FRONT airline  Created!


Press Enter to Return to MENU
```

```
aisle Seat B2, on UNTD line and flight UA12 Is Booked: False
window Seat C1, on UNTD line and flight UA12 Is Booked: False
window Seat C2, on UNTD line and flight UA12 Is Booked: False


Flight Section E class with section price $1000 for flight number fl123 on FRONT airline with 5 rows and S columns layou
t.

Seats in Section: E

window Seat A1, on FRONT line and flight fl123 Is Booked: False
window Seat A2, on FRONT line and flight fl123 Is Booked: False
window Seat A3, on FRONT line and flight fl123 Is Booked: False
window Seat A4, on FRONT line and flight fl123 Is Booked: False
window Seat A5, on FRONT line and flight fl123 Is Booked: False
aisle Seat B1, on FRONT line and flight fl123 Is Booked: False
aisle Seat B2, on FRONT line and flight fl123 Is Booked: False
aisle Seat B3, on FRONT line and flight fl123 Is Booked: False
aisle Seat B4, on FRONT line and flight fl123 Is Booked: False
aisle Seat B5, on FRONT line and flight fl123 Is Booked: False
window Seat C1, on FRONT line and flight fl123 Is Booked: False
window Seat C2, on FRONT line and flight fl123 Is Booked: False
window Seat C3, on FRONT line and flight fl123 Is Booked: False
window Seat C4, on FRONT line and flight fl123 Is Booked: False
window Seat C5, on FRONT line and flight fl123 Is Booked: False


Press Enter to Return to MENU
```