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| **ID:** ATS1 | **Use Case:** ChooseTicket |
| **Brief Description:** Ticket sales are sold through the Travel Advisor or the Office Manager and are sold to the customers. | |
| **Primary Actors:** Travel Advisor,Office Manager | |
| **Secondary Actors:** None. | |
| **Preconditions:**   1. System is operational. 2. Check ticket price should be performed by The Travel Advisor or Office Manager. | |
| **Main Flow:**   1. The use case “ChooseTicket” starts when the Travel Advisor or Office Manager are beginning to sell the flight tickets to the customers. 2. The Travel Advisor or Office Manager select the desired performance from the system. 3. The customer looks up the information related to various airlines and checks the availability of seats on flights.    1. The system provides a list of items that matches the search keywords 4. The Travel Advisor or Office Manager check that there are any available tickets.   4.1 The system provides more information about the selected item.   1. The Travel Advisor or Office Manager enter ticket selling date and the ticket price for the desired performance. 2. If tickets are available the Travel Advisor or Office Manager choose to add item to cart    1. The system adds item to the card. 3. The Travel Advisor or Office Manager enter the details about the customer who wants to buy the ticket.    1. The system checks for the validity of all required data entry.   **Extension point (TakePayment)**   * 1. Else   2. Customers that have an account can choose to pay later – up to 30 days   **Extension point(LatePayment)**   1. The system connects to the database. 2. The system writes data into the database. 3. The system shows a confirmation message after successful ticket sale. | |
| **Postconditions:**   1. Every ticket sold is registered in an Air Ticket Sales report. 2. The application verifies the authenticity of the username and password and then displays information related to various flights to the customer. 3. A new sale is recorded by the Travel Advisor or Office Manager. 4. The appropriate commission amount is recorded. | |
| **Alternative Flow:**  NoSeatsLeft  BlanksFinished  InvalidCustomerData | |

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| **Alternative Flow:** BlanksFinished |
| **ID:** ATS1.1 |
| **Brief Description:** There are no blanks left for the Travel Advisor who want to sell tickets. |
| **Primary Actors:** Travel Advisor, Office Manager |
| **Secondary Actors:** None. |
| **Preconditions:** The Travel Advisor or Office Manager attempted to sell a ticket, but no blanks left to sell. |
| **Alternative Flow:**   1. Use case begins when the system informs the Travel Advisor that there is no blank left to sell. 2. Travel Advisor informs the Office Manager that he/she needs to assign new blanks to the Travel Advisor. 3. Office Manager activates the functionality to assign new blanks. 4. Office Manager assigns the blanks to the Travel Advisor. 5. Travel Advisor sells to ticket for the customer who wants to buy the ticket. |
| **Postconditions:** New blanks are assigned to the customer. |

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| **Alternative Flow:** NoSeatsLeft |
| **ID:** ATS1.2 |
| **Brief Description:** There is no empty seat left for the desired flight. |
| **Primary Actors:** Travel Advisor, Office Manager |
| **Secondary Actors:** None. |
| **Preconditions:** There must be an attempt of selling a ticket. |
| **Alternative Flow:**   1. Use case begins when the system checks for availability of seats and informs the Travel Advisor or Office Manager that there are no seats left. 2. The Travel Advisor or Office Manager inform the customer. 3. Customer chooses alternative flight. 4. The Travel Advisor or Office Manager process to the next stage of selling the ticket. |
| **Postconditions:** Customer informed that there is no seat left for the specific flight and availability of other flights. |

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| **Extension use case:** LatePayment |
| **ID:** ATS1.3 |
| **Brief description:** The customers, both valued and regular can decide to pay later, up to 30 days if an account has been created for them. |
| **Primary actors:** Time |
| **Secondary actors:** None |
| **Segment 1 preconditions:**  The customer requests to opt for the late payment |
| **Segment 1 flow:**   1. The travel advisor or Office manager choose the pay later option in the system 2. The travel advisor or Office manager enters the details of the customers 3. The system saves the information and successfully shows a confirmation message that the option of late payment has been accepted |
| **Segment 1 postconditions:**   1. The system will have an automatic alert after 30 days, to show that the customers’ payment is due. |

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| **Alternative Flow:** InvalidCustomerData |
| **ID:** ATS1.4 |
| **Brief Description:** Travel Advisor or the Office Manager enters the data about the customer but the system informs that some of the data provided is invalid or missing. |
| **Primary Actors:** Travel Advisor, Office Manager |
| **Secondary Actors:** None. |
| **Preconditions:**   1. There must be an attempt of selling a ticket. 2. Customer does not provide all the required data entry, or the Travel Advisor or Office Manager does not enter the information correctly. |
| **Alternative Flow:**   1. Use case begins when the customer wants to buy the ticket and provides information. 2. The Travel Advisor or Office Manager enter the details about the customer. 3. System checks for the data provided. 4. System informs the Travel Advisor or Office Manager that there has a problem with the data provided. It might be missing or incorrect. 5. The Travel Advisor or Office Manager check the data and if necessary, asks for additional data. 6. System checks the data again. 7. System confirms the validity. 8. The Travel Advisor or Office Manager process the next stage of selling the ticket. |
| **Postconditions:** The valid data about the customer is provided. |

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| **ID:** ATS2 | **Use Case:** TakePayment |
| **Brief Description:** This use case describes when the Travel Advisor or the Office Manager takes the payment for the wanted flight tickets for the customer. | |
| **Primary Actors:** Travel Advisor, Office Manager | |
| **Secondary Actors:** None. | |
| **Preconditions:**   1. System is operational. 2. Travel Advisor or Office Manager are logged in. 3. Customers have decided what ticket they want to buy. | |
| **Main Flow:**   1. The use case starts when the Travel Advisor or Office Manager process to checkout    1. Travel Advisor or Office Manager activate the functionality to take the payment. 2. System calculates the total amount including taxes. 3. System asks for the customer account details   **Extension Point: CreateCustomerAccount**   * 1. IF the customer is valued, the Travel Advisor or Office Manager gives discount   2. ELSE proceed to checkout with no discount when the customer is regular  1. System asks for the payment details. 2. IF the customer wants to buy by card,    1. The Travel Advisor or Office Manager ask for the card details.   ELSE   * 1. The Travel Advisor or Office Manager take cash payment.  1. The system records the payment details.    1. IF card payment: records account number, name on the card, card number, date, time, amount combined with the customer details.    2. ELSE cash payment: records amount, date and time combined with the customer details. 2. Payment must proceed and confirmation must be provided. 3. Ticket is registered to the Air Ticket Sales Report by The Travel Advisor or Office Manager. 4. System checks for all the data entry. 5. System connects to the database. 6. The system writes data into database. 7. The system shows the confirmation message after successful payment. | |
| **Postconditions:**   1. A new sale recorded in the database by the Travel Advisor or Office Manager. 2. System received whole amount at once. 3. Details about the payment is recorded. | |
| **Alternative Flow:**  WrongAmountReceived  InvalidCustomerData  IssueWithCardDetails | |

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| **Alternative Flow:** InvalidCustomerData |
| **ID:** ATS2.1 |
| **Brief Description:** The details about the customer is invalid. |
| **Primary Actors:** Travel Advisor, Office Manager |
| **Secondary Actors:** None. |
| **Preconditions:** There has been an attempt of taking the payment but the information about the customer is invalid or missing. |
| **Alternative Flow:**   1. Use case begins when the customer provides information. 2. Travel Advisor or Office Manager enter the details about the customer. 3. System checks for the data provided. 4. System informs the Travel Advisor or Office Manager that there has a problem with the data provided. It might be missing or incorrect. 5. Travel Advisor or Office Manager check the data and if necessary, asks for additional data. 6. System checks the data again. 7. System confirms the validity. 8. The Travel Advisor or Office Manager process the next stage of payment. |
| **Postconditions:** System approved the data provided. |

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| **Alternative Flow:** WrongAmountReceived |
| **ID:** ATS2.2 |
| **Brief Description:** The amount received from the customer at the checkout is less than expected. |
| **Primary Actors:** Travel Advisor, Office Manager |
| **Secondary Actors:** None. |
| **Preconditions:** There must be an attempt of taking the payment. |
| **Alternative Flow:**   1. This use case begins when the system asks for the payment details. 2. Customer provides the amount of money which is required by the Travel Advisor or Office Manager. 3. Travel Advisor or Office Manager enter the amount to the system. 4. System checks and informs the Travel Advisor or Office Manager that the amount provided is incorrect. 5. The Travel Advisor or Office Manager inform the customer. 6. Customer provides the correct amount of money. 7. System checks and validates. |
| **Postconditions:** Correct amount of money is received. |

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| **Alternative Flow:** IssueWithCardDetails |
| **ID:** ATS2.3 |
| **Brief Description:** The details about the card which is being used for the payment cannot be accepted. The card might be expired etc. |
| **Primary Actors:** Travel Advisor, Office Manager |
| **Secondary Actors:** None. |
| **Preconditions:** There must be an attempt of taking the payment. |
| **Alternative Flow:**   1. Travel Advisor or Office Manager provides the card details to the system. 2. System checks the details and informs the user that the card cannot be accepted. 3. The Travel Advisor or Office Manager inform back to the customer. |
| **Postconditions:** No sales are made with the card which is not accepted by the system. |

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| **ID:** ATS3 | **Use Case:** GenerateReport |
| **Brief Description:** The Office Manager creates sales report which contains all the sales transactions corresponding sub-totals and grand totals. | |
| **Primary Actors:** Office Manager , Travel Advisor | |
| **Secondary Actors:** none | |
| **Preconditions:**   1. Office Manager and Travel Advisor have logged in to the system. 2. System is operational. | |
| **Main Flow:**   1. Use case begins when the Office Manager activates the functionality to generate reports.    1. Else    2. The Travel Advisor activates the functionality to generate individual reports 2. System calculates sub-totals and grand totals and displays Individual Sales Report. 3. System calculates sub-totals and grand totals and displays Global Sales Report. 4. System combines Individual ,Global Reports and stock reports in a file. 5. Office Manager or Travel Advisor select save report. 6. System checks for all the data entry. 7. System connects to the database. 8. The system writes data into database. 9. The system shows the confirmation message after successful generation of a report. | |
| **Postconditions:** The report is accessable., can be deleted, viewed etc | |
| **Alternative Flow:** none | |

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| **ID:** ATS4 | **Use Case:** CreateUserAccount |
| **Brief Description:** ATS provides functionality to crate accounts for its users. Accounts are created by the System Administrator. | |
| **Primary Actors:** System Administrator | |
| **Secondary Actors:** None. | |
| **Preconditions:** No user exist in ATS for the new user. | |
| **Main Flow:**   1. The system administrator activates the functionality for creating an account. 2. The system places an empty user account in the session. 3. The system opens a form for entering the user details such as username, email address and password. 4. The system administrator enters details.    1. System confirms their validity 5. System requires to choose the role of the newly created user.   5.1 The system admin specifies the role.   1. The system creates a new user record in ATS. | |
| **Postconditions:** User details are stored in the database. | |
| **Alternative Flow:**  InvalidUserInformation  UnspecifiedRole | |

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| **Alternative Flow:** InvalidUserInformation |
| **ID:** ATS4.1 |
| **Brief Description:** The information provided for the new user is invalid or missing. |
| **Primary Actors:** System Administrator |
| **Secondary Actors:** None. |
| **Preconditions:** There must be an attempt of creating a new user account. |
| **Alternative Flow:**   1. Use case starts when the system administrator provides the information to the system. 2. System checks for the validity of the information provided.   IF required data is entered, system creates the user.  ELSE system asks for additional information or correction |
| **Postconditions:** User information is validated. |

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| **Alternative Flow:** UnspecifiedRole |
| **ID:** ATS4.2 |
| **Brief Description:** The system administrator have not provided the information for the role of the new user. Unless the role is specified, new user account cannot be created. |
| **Primary Actors:** System administrator |
| **Secondary Actors:** None. |
| **Preconditions:** There must be an attempt of creating a new ATS user. |
| **Alternative Flow:**   1. System asks for the role of the new user. 2. System administrator specifies the role. 3. System gives privileges to the user according to the type of the role. 4. System saves the changes. |
| **Postconditions:** Required information is provided. |

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| **ID:** ATS5 | **Use Case:** CreateCustomerAccount |
| **Brief Description:** ATS provides functionality create accounts for its customer to keep information about them. | |
| **Primary Actors:** Travel Advisor, Office Manager | |
| **Secondary Actors:** None. | |
| **Preconditions:**   1. System is operational. 2. The Travel Advisor or Office Manager are logged in to the system. | |
| **Main Flow:**   1. Use case starts when the Travel Advisor or Office Manager activates the functionality to create a user account. 2. System asks for the customer information: name, surname, email, phone number etc. 3. The Travel Advisor or Office Manager enter the information provided by the customer. 4. System checks for the validity of the information. 5. System connects to the database. 6. The system writes data into database. 7. The system shows the confirmation message after successful account creation. | |
| **Postconditions:** A user account created with a unique email. | |
| **Alternative Flow:** InvalidCustomerData | |

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| **Alternative Flow:** InvalidCustomerData |
| **ID:** ATS5.1 |
| **Brief Description:** Use case describes what happens when the data provided by the Travel Advisor or Office Manager is incorrect or missing. |
| **Primary Actors:** Travel Advisor, Office Manager |
| **Secondary Actors:** None. |
| **Preconditions:** There must be an attempt of creating a user account. |
| **Alternative Flow:**   1. Use case begins when the Travel Advisor or Office Manager enters data to the system. 2. The Travel Advisor or Office Manager enter the details about the customer. 3. System checks for the data provided. 4. System informs the Travel Advisor or Office Manager that there has a problem with the data provided. It might be missing or incorrect. 5. The Travel Advisor or Office Manager check the data and if necessary, asks for additional data. 6. System checks the data again. 7. System confirms the validity. 8. The Travel Advisor or Office Manager process the next stage of creating a user account. |
| **Postconditions:** The new user details are provided as required by the system. |