1. Use cases model:
   1. **Using Event Decomposition technique:**

Table - Types of Events

* + 1. Types of Events

|  |  |
| --- | --- |
| Event | Type  (External/State/temporal) |
| 4) User Select the best of the quote | External |
| 5) User Select detailed preference | External |
| 6) User make the initial reservation | External |

* + 1. Formalize events with use cases

Table 2- Formalizing Events to usecases

|  |  |  |
| --- | --- | --- |
| Event | Type  (External/State/temporal) | Use case |
| 4) User Select the best of the quote | External | Selecting best quote |
| 5) User Select detailed preference | External | Selecting detailed preferences |
| 6) User make the initial reservation | External | Creating initial reservation |

* + 1. Use case Descriptions:

Table 3 - Use cases descriptions

|  |  |  |
| --- | --- | --- |
| Use case name | Actor | Description |
| Selecting best quote | Passenger | When the system returns the filtered list of quotes the customer/actor/user select the best for him. |
| Selecting detailed preferences | Passenger | When the customer/actor/user selects the best quote, the system asks him to select preferences, meals, special assistance. In some cases, customer preferences, such as choosing aisle/window seat. |
| Creating initial reservation | Passenger | The customer/actor/user can make initial reservation of the flight for two days with the same quoted price without the need to pay or to enter credit card information. |

* + 1. Matrix that maps all domain classes to the set of use cases

|  |  |  |
| --- | --- | --- |
| Use case  **Vs.**  Domain Class | Passenger | Trip |
| Selecting best quote | R (Report) | C |
| Selecting detailed preferences | R (Report) | U |
| Creating initial reservation | C | C |