**Project description**

Each group has 4 deliverables: (40 grades)

Total grades for the project should be **20 grades**. So, the grades will be scaled.

The template for your deliverables and your cover page are provided.

Your deliverables will be submitted on **Blackboard**.

Note that only one team member to submit the project. Don’t submit multiple times.

**Project Details**

|  |  |
| --- | --- |
| Project number | *2* |
| Project title | *Online Travel Reservation System* |
| Corresponding TA\LA | *Your project TA* |
| Deliverable | *1* |

**Team Details**

|  |  |  |
| --- | --- | --- |
| **Student ID** | **Student name** | **Lab Group** |
| 20180044 | Eslam Ramadan | 1 & 2 |
| 20180051 | Alamir Hassan Younis | 3 |
| 20180075 | Tawfik Yasser Tawfik | 3 |
| 20180154 | Abdelrahman Esmat Mohamed | 3 |
| 20180286 | Moaz Mahmoud Saad | 3 |

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

Table - Types of Events

* + 1. Types of Events

|  |  |
| --- | --- |
| Event | Type  (External/State/temporal) |
| The passenger enters trip information. | External Event |
| The passenger asks for price quotes. | External Event |
| The system returns filtered list of quotes to the customer. | State Event |

* + 1. Formalize events with use cases

Table 2- Formalizing Events to usecases

|  |  |  |
| --- | --- | --- |
| Event | Type  (External/State/temporal) | Use case |
| The passenger enters trip information. | External Event | Entering trip information. |
| The passenger asks for price quotes. | External Event | Asking for price quotes. |
| The system returns filtered list of quotes to the customer. | State Event | Returning filtered list of quotes. |

* + 1. Use case Descriptions:

Table 3 - Use cases descriptions

|  |  |  |
| --- | --- | --- |
| Use case name | Actor | Description |
| Entering trip information. | Passenger | The passenger enters the trip information such as (flight, hotel and car rental). |
| Asking for price quotes. | Passenger | The passenger asks the system to show him the filtered list of price quotes to choose from it. |
| Returning filtered list of quotes. | System | The system displays the price quotes list after filtering it to choose from it. |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Use case  **Vs.**  Domain Class | Passenger | Trip | Travel agent service providers |
| Entering trip information. | R | C | U |
| Asking for price quotes. | R |  |  |
| Returning filtered list of quotes. | R |  | R |

* + 1. Use case Diagram:

[Using any tool]

[Hint: Review Chapters 3 – 4: Use cases & domain classes]