**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 | *Your project number as in Excel file* |
| Project title | *Your project title* |
| Corresponding TA\LA | *Your project TA* |
| Deliverable | *1 or 2 or 3 or 4* |

**Team Details**

|  |  |  |
| --- | --- | --- |
| **Student ID** | **Student name** | **Lab Group** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

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

Table 1- Types of Events

* + 1. Types of Events

|  |  |
| --- | --- |
| Event | Type  (External/State/temporal) |
| System updates user profile | state |
| System offers travel package | state |
| System offers additional discounts for frequent customers | state |

* + 1. Formalize events with use cases

Table 2- Formalizing Events to usecases

|  |  |  |
| --- | --- | --- |
| Event | Type  (External/State/temporal) | Use case |
| System updates user profile | state | Updating user profile |
| System offers travel package | state | Offering travel package |
| System offers additional discounts for frequent customers | state | Offering additional discount |

* + 1. Use case Descriptions:

Table 3 - Use cases descriptions

|  |  |  |
| --- | --- | --- |
| Use case name | Actor | Description |
| Updating user profile | Sales department | In this case system updates user profile with the trip Information that has been reserved/booked after processing and checking order. |
| Offering travel package | Travel agent | In this case system will offer travel package based on destination and user history. |
| Offering additional discount | Travel agent | In this case system shows special  offers for frequent users |

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

|  |  |  |
| --- | --- | --- |
| Use case  **Vs.**  Domain Class | Sales Department | Travel Agent |
| Updating user profile | U | U |
| Offering travel package |  | R (Report) |
| Offering additional discount |  | R (Report) |

* + 1. Use case Diagram:

[Using any tool]

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