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| **Class:** | **T.E. C.O.M.P.S.** |
| **Experiment No.** | 2 |

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| **AIM:** | Design UML diagram -Use Case & Description | |
| **ASSIGNMENT 2** | | |
| |  |  |  | | --- | --- | --- | | **Use case** | **Make reservation** | | | **Goal** | Add a new reservation | | | **Description Actor** | Receptionist, Manager, Owner | | | **Precondition** | Same guest shouldn’t already exist | | | **Normal Flow** | **Steps** | **Actions** | |  | Receptionists enter the guest details and their room requirement | |  | System searches for room details | |  | System presents room types and tariffs | |  | System records customer’s name and address | |  | Receptionist confirms booking on system | |  | System generates confirmation receipt | | **Alternate Flow** | 3.1 There are no rooms available in that category  3.2 The receptionist then must change the category until rooms are found and then proceed | | | **Exception** | The database somehow is not able to accept new entries, there is critical system failure | | | **Postcondition** | Hotel guest detail updated to current hotel list | | | **Special requirement** | **N.A.** | |  |  |  |  | | --- | --- | --- | | **Use case** | **Manage Staff (Add, Update, Delete, View)** | | | **Goal** | Create, update delete or view staff members | | | **Description Actor** | Owner | | | **Precondition** | The user/actor has verified himself to be the owner | | | **Basic Flow** | **Steps** | **Actions** | |  | If the actor wants to create a new profile, then he clicks on the create option. He then enters the details of the new employee | |  | if he wishes to see the employee profile then he enters the employee id or name | |  | The system shows the search results from the database | |  | The actor can select the profile required | |  | He can click edit/remove shown on the top right | |  | If edit is clicked the preexisting details are loaded on the screen in editable mode | | **Alternate Flow** | 2.1 The employee doesn’t exist | | | **Exception** | The database somehow is not able to accept new entries, there is critical system failure, the filter system is not working accurately due to database update problems | | | **Postcondition** | The details of the employee are updated successfully | | | **Special requirement** | **N.A.** | |  |  |  |  |  | | --- | --- | --- | --- | | **Use case** | **Taking Backups** | | | | **Goal** | Take a backup of the system | | | | **Description Actor** | Owner | | | | **Precondition** | User should login to the system/ the backup trigger should be invoked | | | | **Basic Flow** | **Steps** | **Actions** | | |  | Display user interface | | |  | Select backup option or restore option | | |  | Display backup interface | | |  | Select create backup option | | |  | Backup version created and named automatically | | |  |  | Stop all updating processes on the database | |  |  | Creating backup process is not successful, display “Unsuccessful” message. | | | **Alternate Flow** | 2.1 if the user selects restore option, then it asks for the version of backup to be restored  2.2 after selecting the version number the system automatically restores the system to that state | | | | **Exception** | Some processes updating the database still remain on. | | | | **Postcondition** | The backed-up data is stored on a remote storage device. | | | | **Special requirement** | The storage device should not be touched while backup is being performed | | |  |  |  |  | | --- | --- | --- | | **Use case** | **Get financial reports** | | | **Goal** | View a financial report for specific time | | | **Description Actor** | Owner | | | **Precondition** | Log in to the system | | | **Basic Flow** | **Steps** | **Actions** | |  | Display user interface | |  | System prompts the owner to select two dates | |  | Enter the required dates | |  | System will display the revenue for that specific time | | **Alternate Flow** | 2.1 If invalid details entered Display “unsuccessful” message and reenter interface. | | | **Exception** | The user enters one of the dates which is in the future/an invalid date. | | | **Postcondition** | The financial reports are displayed in case of valid details entered. | | | **Special requirement** | **N.A.** | | | | |
| **CLASS DIAGRAM:** | |  |
| **CONCLUSION:** | | Thus, in this experiment, UML Use Case diagram was successfully created for our case study. |