Use case description

Employees Monitoring System

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| ID and name | UC\_1 : Log in as a Boss | | |
| Primary actor | Boss | Secondary actors | Employees Monitoring System |
| Description | A boss accesses the Employees Monitoring System and logs in the system. | | |
| Trigger | A boss wants to log in. | | |
| Preconditions | None | | |
| Postconditions | POST\_1: Boss is logged in as a boss. | | |
| Normal flow | 1. Boss logs in the EMS. 2. EMS displays the Main window with the 2 buttons “Log in as a boss” and “Log in as an employee”.   2. Boss enters his username and password and clicks “Log in as a boss” button.  3. EMS checks his credentials and logs him in.(see 1.0.E1) | | |
| Alternative flows | None | | |
| Exceptions | 1.0.E1 Invalid credentials.  1. EMS informs the boss that his credentials are invalid.  2. EMS restarts the use case. | | |

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| ID and name | UC\_2 : Log in as an Employee | | |
| Primary actor | Employee | Secondary actors | Employees Monitoring System |
| Description | An employee accesses the Employees Monitoring System and logs in the system. | | |
| Trigger | An employee wants to log in. | | |
| Preconditions | None | | |
| Postconditions | POST\_1: Employee is logged in as an employee.  POST\_2: Employee’s presence is shown in boss’s employees table. | | |
| Normal flow | 1. Employee logs in the EMS.   1.EMS displays the Main window with the 2 buttons “Log in as a boss” and “Log in as an employee”.   1. Employee enters his unique employee id and password and clicks “Log in as an employee” button. 2. EMS checks his credentials and logs him in.(see 1.0.E1) 3. EMS updates employees table with his hour of arrival. | | |
| Alternative flows | None | | |
| Exceptions | 1.0.E1 Invalid credentials.  1. EMS informs the employee that his credentials are invalid.  2. EMS restarts the use case. | | |

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| ID and name | UC\_4 : View employees table. | | |
| Primary actor | Boss | Secondary actors | Employees Monitoring System |
| Description | A boss accesses the Employees Monitoring System and views the employees list. This list contains the name of each employee and the time he logged in the system. | | |
| Trigger | A boss wants to view the employees list. | | |
| Preconditions | PRE\_1 : The boss has to be logged into the system as a Boss. | | |
| Postconditions | POST\_1: The employees list is shown. | | |
| Normal flow | 1.0. Boss views employees list.  1. Boss clicks “View employees list” button from his main window.  2. EMS displays the table with the employees’ names, they’re presence/absence and the time they logged into the system (if they are present). | | |
| Alternative flows | None | | |
| Exceptions | 1.0.E1 Boss is logged in and no employee is logged in.  1. EMS marks all the employees as “Absent”.  2a. If boss chooses to inform the employees that they should be logged in, then EMS sends a notification to all of the employees.  2b. Else, EMS does nothing. | | |

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| ID and name | UC\_5: Assign task | | |
| Primary actor | Boss | Secondary actors | EMS, Employee |
| Description | The boss chooses an employee from the employees list and assigns him a task. | | |
| Trigger | The boss wants to assign a task to a specific employee. | | |
| Preconditions | PRE\_1: Boss is logged into the system as a boss.  PRE\_2: Employee’s table is shown. | | |
| Postconditions | POST\_1: Employee’s list of task is updated with the new assigned task. | | |
| Normal flow | 1.0 Assign a task to one employee  1.The boss chooses an employee from the table(see 1.0.E1)  2. The EMS displays a new window for introducing task description.  3. The boss introduces the task description.(see 1.0.E2)  4. The boss clicks “Assign”.  5. The EMS sends a notification to the chosen employee and adds the assignment to his tasks table.  6. The EMS closes the window. | | |
| Alternative flows | * 1. Assign a task to multiple employees   1.The boss chooses multiple employees from the table.(see 1.0.E1)  2. Return to step 2 of normal flow. | | |
| Exceptions | 1.0.E1 The chosen employee(s) is(are) marked as “Absent”  1. The EMS informs the boss that the selected employee is not at work.  2a. If the boss chooses to inform him that he should be at work, the EMS send the employee a notification.  2b.Else, the EMS restarts the use case.  1.0.E2 No task description is introduced  3. The EMS informs the boss that he can’t assign a task without a description. | | |

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| ID and name | UC\_6: View employee’s assigned tasks. | | |
| Primary actor | Boss | Secondary actors | EMS |
| Description | The boss views an employee’s assigned tasks. If the task has been completed, it is marked in the table as “Completed”. Else, it is marked as “Assigned”. | | |
| Trigger | The boss wants to view a specific employee’s assigned tasks. | | |
| Preconditions | PRE\_1: Boss is logged into the system as a boss.  PRE\_2: Employee’s table is shown. | | |
| Postconditions | POST\_1: Employee’s table of tasks is shown. | | |
| Normal flow | 1.0. The boss views an employee’s assigned tasks table.  1.The boss chooses an employee from the table and clicks “View assigned tasks” button(see 1.0.E1, 1.0.E2)  2. The EMS opens a new window containing his assigned tasks table. | | |
| Alternative flows | None | | |
| Exceptions | 1.0.E1 No employee is selected  1. The EMS informs the boss that he has to select an employee.  2. The EMS restarts the use case.  1.0.E2 The selected employee is marked as “Absent”  1. The EMS informs the boss that the selected employee is not at work.  2a. If the boss chooses to inform him that he should be at work, the EMS send the employee a notification.  2b.Else, the EMS restarts the use case. | | |

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| ID and name | UC\_7: Unassign task | | |
| Primary actor | Boss | Secondary actors | EMS, Employee |
| Description | The boss chooses an employee from the employees list and unassigns him a task. | | |
| Trigger | The boss wants to unassign a task from a specific employee. | | |
| Preconditions | PRE\_1: Boss is logged into the system as a boss.  PRE\_2: Employee’s tasks table is shown. | | |
| Postconditions | POST\_1: Employee’s list of task is updated with remaining assigned tasks. | | |
| Normal flow | 1.0 Unassign a task from one employee  1.The boss chooses a task from the table(see 1.0.E1)  2. The boss clicks “Unassign”.  3. The EMS sends a notification to the chosen employee and deletes the assignment from his tasks table.  4. The EMS closes the window. | | |
| Alternative flows | None | | |
| Exceptions | 1.0.E1 No task is selected  1. The EMS informs the boss that he has to select a task. | | |

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| ID and name | UC\_8: Reassign task | | |
| Primary actor | Boss | Secondary actors | EMS, Employee |
| Description | The boss chooses an employee from the employees list and reassigns his task to another employee(s). | | |
| Trigger | The boss wants to reassign a task from a specific employee to another employee(s). | | |
| Preconditions | PRE\_1: Boss is logged into the system as a boss.  PRE\_2: Employee’s tasks table is shown. | | |
| Postconditions | POST\_1: Employees’ lists of tasks is updated. | | |
| Normal flow | 1.0 Reassign a task from one employee to another employee.  1. The boss selects a task from the table and clicks “Reassign Task”.(see 1.0.E1)  2. The EMS opens a new window with a table containing the present employees.  3. The boss selects an employee from the table and clicks “Reassign”.(see 1.0.E2, 1.1)  4. The EMS sends a notification to the chosen employees and updates their tasks table.  5. The EMS closes the window. | | |
| Alternative flows | * 1. Reassign a task from one employee to multiple employees.   1.The boss chooses multiple employees from the table and clicks  “Reassign”.(see 1.0.E1)  2. Return to step 4 of normal flow. | | |
| Exceptions | 1.0.E1 No task is selected  1. The EMS informs the boss that he has to select a task.  1.0.E2 No employee is selected  1. The EMS informs the boss that he has to select an employee. | | |

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| ID and name | UC\_9: View assigned tasks | | |
| Primary actor | Employee | Secondary actors | EMS |
| Description | One employee views his assigned tasks by clicking “View assigned tasks” button that opens up a new window with the tasks table. | | |
| Trigger | The employee wants to view his assigned tasks. | | |
| Preconditions | PRE\_1: Employee is logged into the system as an employee. | | |
| Postconditions | POST\_1: Employee’s table of tasks is shown. | | |
| Normal flow | 1.0.View assigned tasks  1.The employee clicks “View assigned tasks” button.  2. The EMS displays his assigned tasks table in a new window. | | |
| Alternative flows | None | | |
| Exceptions | None | | |

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| ID and name | UC\_10: Confirm task execution | | |
| Primary actor | Employee | Secondary actors | EMS, Boss |
| Description | The employee confirms that he has completed a task. When the execution is confirmed, the boss receives a notification that informs him that the task is completed. | | |
| Trigger | The employee wants to inform the boss that he completed a task. | | |
| Preconditions | PRE\_1: Employee is logged into the system as an employee.  PRE\_2: Boss is logged into the system as a boss. | | |
| Postconditions | POST\_1: Task is deleted from the employee’s assigned tasks table.  POST\_2: Boss is alerted that the task is completed and the task is marked as “Completed” in the employee’s table. | | |
| Normal flow | 1.0. The employee confirms execution of one task  1.The employee chooses a task from the table and clicks “Completed” button(see 1.0.E1)  2. The EMS removes the task from his table, sends a notification to the boss and marks the task as “Completed” in the boss’s table of assigned tasks. | | |
| Alternative flows | None | | |
| Exceptions | 1.0.E1 No task is selected  1. The EMS informs the employee that he has to select a task. | | |

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| ID and name | UC\_11: Log out | | |
| Primary actor | Boss/Employee | Secondary actors | Employees Monitoring System |
| Description | A boss/An employee logs out of the system. | | |
| Trigger | A boss/An employee wants to log out. | | |
| Preconditions | PRE\_1: Boss/Employee is logged in. | | |
| Postconditions | POST\_1: EMS is closed. | | |
| Normal flow | 1. Boss/Employee logs out of the EMS. 2. EMS displays the Main window with the 2 buttons “Log in as a boss” and “Log in as an employee”.   2. Boss enters his username and password and clicks “Log in as a boss” button.  3. EMS checks his credentials and logs him in.(see 1.0.E1) | | |
| Alternative flows | None | | |
| Exceptions | 1.0.E1 Invalid credentials.  1. EMS informs the boss that his credentials are invalid.  2. EMS restarts the use case. | | |

## Extra credit step: Traceability

For this extra step, you will add traceability information for each use case by adding a new field to the template:

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| Method-level traces | <fully.qualified.ClassName>#<methodName>  ... |

Any method that implements the functionality described in the normal flow, alternative flow or exceptions should be included in this field. This means that the method that is initially executed and any methods of any classes that the work is delegated to should be included.

Examples for previous use cases:

UC-1:

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| Method-level traces | my.company.ordering.MenuWidget#dateClicked  my.company.ordering.MenuWidget#completeOrder  my.company.ordering.InventoryInterface#checkInventory  ... |

UC-5:

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| Method-level traces | my.company.payroll.PayrollInterface#checkEligibility  my.company.payroll.RegistrationForm#confirm  ... |