***Use case***

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| ID and name | UC-1: Login | | |
| Primary actor | User | Secondary actors | None |
| Description | The user logs into the Employee Monitoring System | | |
| Trigger | The user attempts to access the system | | |
| Preconditions | PRE-1: The user has valid credentials. | | |
| Postconditions | POST-1: The user is authenticated and gains access to the system. | | |
| Normal flow | **1.0 Logging into a company personal account**  1. The user enters his login credentials.  2. The user presses the ‘Login’ button.  3. The system verifies credentials.  4. If valid, the system grants access and opens the interface. | | |
| Alternative flows | **1.1 Exit the system**  1a. The user can exit at any point the terminal by clicking the close button. | | |
| Exceptions | **1.0.E1 The user has introduced invalid logging credentials**  1. The system shows an error message stating that the logging data is invalid.  2. The user is prompted to retry (return to step 1). | | |

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| ID and name | UC-2: Mark Attendance | | |
| Primary actor | Employee | Secondary actors | None |
| Description | The employee marks their attendance. | | |
| Trigger | The employee logs into the system. | | |
| Preconditions | PRE-1: The employee is logged in. | | |
| Postconditions | POST-1: The attendance is recorded in the system. | | |
| Normal flow | **2.0 Marking attendance**  1. The employee selects 'Mark Attendance'.  2. The system records a timestamp. | | |
| Alternative flows | None | | |
| Exceptions | **2.0.E1 System is down**  1. Attendance not recorded. | | |

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| ID and name | UC-3: Manage Tasks | | |
| Primary actor | Manager | Secondary actors | Employee |
| Description | The manager assigns, updates, or deletes tasks. | | |
| Trigger | Manager accesses the task management module. | | |
| Preconditions | PRE-1: The manager is logged in. | | |
| Postconditions | POST-1: Task changes are saved in the system. | | |
| Normal flow | **3.0 Managing the tasks of present employees**  1. Manager selects 'Manage Tasks'.  2. Manager assigns, updates, or deletes tasks.  3. System updates the tasks. | | |
| Alternative flows | **3.1 Task assignment fails**  1. The system allows the manager to retry. | | |
| Exceptions | **3.0.E1 Database error**  1. Task changes are not saved. | | |

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| ID and name | UC-4: View Present Employees | | |
| Primary actor | Manager | Secondary actors | None |
| Description | The manager views a list of employees that are currently logged in. | | |
| Trigger | Manager selects 'View Present Employees'. | | |
| Preconditions | PRE-1: Manager is logged in. | | |
| Postconditions | POST-1: Employee list is displayed. | | |
| Normal flow | **4.0 Showing Present Employees**  1. The system displays logged-in employees in a list. | | |
| Alternative flows | None | | |
| Exceptions | **4.0.E1 System Error**  1. List cannot be retrieved. | | |

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| ID and name | UC-5: View Tasks | | |
| Primary actor | Employee | Secondary actors | None |
| Description | The employee views the list of assigned tasks. | | |
| Trigger | The employee selects "View Tasks." | | |
| Preconditions | PRE-1: The employee is logged into the system.  PRE-2: The employee has at least one assigned task. | | |
| Postconditions | POST-1: The system displays the employees’ assigned tasks. | | |
| Normal flow | **5.0 Viewing the assigned tasks by the manager**  1. The employee selects "View Tasks."  2. The system retrieves the list of assigned tasks.  3. The system displays the tasks with relevant details. | | |
| Alternative flows | **5.1 No tasks assigned**  1. The system displays a message: "No tasks assigned at the moment." | | |
| Exceptions | **5.0.E1 System error**  1. The system fails to retrieve tasks.  2. An error message is displayed. | | |

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| ID and name | UC-6: Complete Task | | |
| Primary actor | Employee | Secondary actors | Manager |
| Description | The employee marks a task as complete. | | |
| Trigger | The employee selects ‘Task completed’. | | |
| Preconditions | PRE-1: The employee is logged in.  PRE-2: The employee has an assigned task. | | |
| Postconditions | POST-1: The system marks the task as completed. | | |
| Normal flow | **6.0 Finishing a task**  1. The employee navigates to 'View Tasks'.  2. The employee selects a task and marks it as complete.  3. The system updates the task status. | | |
| Alternative flows | None | | |
| Exceptions | **6.0.E1 System error**  1. Task completion fails. | | |

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| ID and name | UC-7: Receive Logout Notification | | |
| Primary actor | Manager | Secondary actors | None |
| Description | The manager receives a notification when an employee logs out. | | |
| Trigger | An employee logs out. | | |
| Preconditions | PRE-1: The manager is logged in. | | |
| Postconditions | POST-1: The manager is notified of the employee's logout. | | |
| Normal flow | **7.0 Employee logging out notification**  1. An employee logs out of the system.  2. The system generates a notification.  3. The manager receives the notification. | | |
| Alternative flows | None | | |
| Exceptions | **7.0.E1 System error**  1. The logout notification is not sent. | | |

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| ID and name | UC-8: Logout | | |
| Primary actor | Personal | Secondary actors | None |
| Description | The user logs out of the system. | | |
| Trigger | User selects 'Logout'. | | |
| Preconditions | PRE-1: User is logged in. | | |
| Postconditions | POST-1: User is logged out and the session is terminated. | | |
| Normal flow | **8.0 Logging out**  1. User selects 'Logout'.  2. System terminates session. | | |
| Alternative flows | None | | |
| Exceptions | **8.0.E1 System Error**  1. Logout fails. | | |

Descriptions of template fields:

* **ID and name:** Title should be descriptive and should usually begin with a verb, e.g. order, calculate, input, etc. ID can have any format but must be unique among all use cases.
* **Primary actor:** Person that wishes to accomplish a goal through the use of the system. Only a single primary actor per use case.
* **Secondary actors:** Actors that have an interest in the completion of the goal but that do not directly interact with the system.
* **Description:** Concise description of the purpose of the use case.
* **Trigger:** Condition internal or external to the system that prompts the use case to start.
* **Preconditions:** Conditions that must be true before the use case starts. Each should be labeled with an ID unique to the use case.
* **Postconditions:** Conditions that must be true after the use case ends normally. Each should be labeled with an ID unique to the use case.
* **Normal flow:** Detailed step-by-step description of the logical flow of the use case. It should describe an explicit two way interaction, with the system prompting for input and the actor responding accordingly. Each step should be numbered.
* **Alternative flows:** Flows that achieve the same goal as the normal flow but are expected to be less common or lower priority.
* **Exceptions:** Conditions that result in the normal flow ending prematurely due to an unrecoverable condition in the system. The condition that causes the flow should be clearly stated, as should be any other decisions that the actor must make in this situation.

**Iterations:**

**1 – UC1, UC8, UC7**

**2 – UC2, UC4, UC5**

**3 – UC3, UC6**