Use cases for the Employee Monitoring Problem

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| ID and name | UC-1: Login | | |
| Primary actors | Boss, Employee | Secondary actors |  |
| Description | Once the actor enters their username and password in the designated fields and clicks on the login button, a new window will appear if the provided credentials are accurate. However, if the credentials are incorrect, a message indicating so will be displayed on the screen. | | |
| Trigger | The actor indicates that he wants to login into the system. | | |
| Preconditions | PRE-1: Actor must have an account. | | |
| Postconditions | POST-1: Actor is logged into the system. | | |
| Normal flow | 1. The actor provides the necessary information (username and password) to access the system and clicks on the login button. 2. The system verifies the actor's credentials and, if they are accurate, opens a new tab for the respective actor. | | |
| Alternative flows |  | | |
| Exceptions | 1. If the password is incorrect:  * The system displays the message “Password is incorrect” indicating that the provided password is incorrect. * The actor can choose to refill the password field. * Return to normal flow scenario.  1. If the username is incorrect:  * The system displays the message “Username is incorrect” indicating that the provided username is incorrect. * The actor can choose to refill the username field. * Return to normal flow scenario. | | |

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| ID and name | UC-2: Attendance tracking | | |
| Primary actor | Employee | Secondary actors |  |
| Description | An employee introduces the time that he arrived at work and presses on the attendance button and a new window is shown. | | |
| Trigger | An employee requests to be checked in for the workday | | |
| Preconditions | PRE-1: Employee must be logged into the system. | | |
| Postconditions | POST-1: The employee has started their workday. | | |
| Normal flow | 1. The employee enters the time he arrived at the office to start working. 2. The employee clicks on the attendance button. 3. A new window appears, indicating that the employee's workday has begun. | | |
| Alternative flows |  | | |
| Exceptions | 1. The time entered by the employee is later than the current time:  * The system displays the message “Please select a time that is correct” indicating that the entered time is later than the current time and the check-in cannot be completed. * The system returns to the normal flow scenario.  1. The employee checks in one more time on the same day:  * The system displays the message “You have checked in already for today” indicating that the employee has already checked in for the day and the additional check-in cannot be completed. * The system returns to the normal flow scenario. | | |

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| ID and name | UC-3: View tasks | | |
| Primary actor | Employee | Secondary actors |  |
| Description | The employee can view their current and completed tasks. | | |
| Trigger | An employee requests to view their current and completed tasks. | | |
| Preconditions | PRE-1: The employee needs to be signed in to the system.  PRE-2: The employee must have clocked in for the workday. | | |
| Postconditions | POST-1: Employee sees his tasks in a table. | | |
| Normal flow | After an employee has clocked in for the workday, they are presented with a list of their tasks, including their current status. | | |
| Alternative flows | - | | |
| Exceptions | - | | |

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| ID and name | UC-4: Mark tasks as completed | | |
| Primary actor | Employee | Secondary actors |  |
| Description | An employee chooses a task that they have finished and clicks on the "complete task" button. | | |
| Trigger | An employee notifies that they have completed a particular task. | | |
| Preconditions | PRE-1: The employee needs to be signed in to the system.  PRE-2: The employee must have clocked in for the workday. | | |
| Postconditions | POST-1: Employee has marked a task as completed. | | |
| Normal flow | 1. The employee selects the desired task from their task list. 2. The employee clicks on the "complete task" button. 3. The task is marked as completed. | | |
| Alternative flows | The task that the employee selected is already marked as completed:   * A message will pop up to inform the employee that he already completed that task. | | |
| Exceptions | If the employee clicks on "Complete Task" without selecting a task:   * The system displays the message “Please select the task that you want to complete” instructing the employee to select a task before using the "Complete Task" feature. * The employee can choose to select a task. * The system then returns to the normal flow scenario and prompts the employee to select a task again (back to point 1). | | |

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| ID and name | UC-5: Logout | | |
| Primary actor | Employee | Secondary actors | Boss |
| Description | At the end of his workday, the employee closes the window, and this action triggers a notification to the boss that the employee has logged out of the system. | | |
| Trigger | The employee requests to end their workday. | | |
| Preconditions | PRE-1: The employee needs to be signed into the system.  PRE-2: The employee must have clocked in for the workday. | | |
| Postconditions | POST-1: The boss receives a notification that the employee has logged out. | | |
| Normal flow | 1. Employee presses on the close button in the main window 2. The system checks the employee out. 3. Boss is notified of the employee’s check out. | | |
| Alternative flows | - | | |
| Exceptions | - | | |

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| ID and name | UC-6: Add new task | | |
| Primary actor | Boss | Secondary actors | Employee |
| Description | The boss chooses an employee and assigns them a task, along with its relevant description, and then clicks on the button to send it. | | |
| Trigger | The boss requests to assign a task to an employee. | | |
| Preconditions | PRE-1: Boss is logged in. | | |
| Postconditions | POST-1: Boss created a task for an employee. | | |
| Normal flow | 1. The boss chooses the employee they wish to assign a task to. 2. The boss creates a task description. 3. If the task description is valid, the employee receives the newly assigned task. | | |
| Alternative flows | - | | |
| Exceptions | If the task description is empty:   * The system displays “Please fill the description” indicating that the task description is empty. * The boss can choose to rewrite the task description. * The system then returns to the normal flow scenario and prompts the boss to create a task description again (back to point 2). | | |

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| ID and name | UC-7: View employee attendance | | |
| Primary actor | Boss | Secondary actors |  |
| Description | The boss sees all the employees that are at work at that time. | | |
| Trigger | The boss requests to view a list of all current employees at the current time. | | |
| Preconditions | PRE-1: Boss is logged in. | | |
| Postconditions | POST-1: Boss sees all the employees that are clocked in for that workday. | | |
| Normal flow | The boss is presented with a list of all current employees and their check-in times at the current moment. | | |
| Alternative flows | - | | |
| Exceptions | - | | |

Iterations:

* Login, Attendance tracking, View tasks, View employee attendance
* Add new task, Mark task as completed
* LogOut