**Employee Monitoring System(EMS)**

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| ID and name | UC-1: Log in | | |
| Primary actor | Employee | Secondary actors | Boss, EMS |
| Description | An employee accesses the EMS, enters his username, password and time that he arrived at work. | | |
| Trigger | An employee wants to log in EMS. | | |
| Preconditions |  | | |
| Postconditions | POST-1: the employee status is changed in “LOGGED”  POST-2: EMS alerts the boss about a new employee logged | | |
| Normal flow | 1. Employee enters username and password and clicks on log in button(see 1.0.E1, 1.0.E2). 2. EMS validates username and password. 3. Employee completes the time he arrived at the office (see 1.1.E1). 4. EMS stores the information and shows the message “Logged in successfully!” and opens a terminal for employees. | | |
| Alternative flows |  | | |
| Exceptions | **1.0.E1 Username not found**   1. EMS did not find in the database an employee with given username and shows the message “Username not found!”. 2. Return to step 1.   **1.0.E2 Wrong password**   1. EMS finds the employee with given username, but the password does not match. It shows the message “Wrong password!”. 2. Return to step 1.   **1.1.E1 The time entered is more than 2 hours behind the system**   1. EMS shows the message “Enter a valid hour to log in! (no more than 2 hours ago)”. 2. Return to step 3. | | |

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| ID and name | UC-2: Add account | | |
| Primary actor | Admin | Secondary actors | EMS |
| Description | Admin completes the information about the new account and adds it. | | |
| Trigger | Admin wants to add an account. | | |
| Preconditions | PRE-1: Admin is logged in | | |
| Postconditions | POST-1: the new account is stored in EMS, with all information | | |
| Normal flow | 1. Admin completes the information for the new account. 2. EMS validates the data.(see 2.0.E1) 3. EMS stores the account and shows the message “Account added successfully!”. | | |
| Alternative flows |  | | |
| Exceptions | **2.0.E1 Validation error**   1. One or more of the following fields is not valid: first name, last name, CNP, username or password. 2. EMS will show an error message, according to invalid fields. 3. Return to step 1. | | |

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| ID and name | UC-3: Delete account | | |
| Primary actor | Admin | Secondary actors | EMS |
| Description | Admin selects an account and removes it. | | |
| Trigger | Admin wants to delete an account. | | |
| Preconditions | PRE-1: Admin is logged in. | | |
| Postconditions | POST-1: The removed account is no longer stored in the EMS. | | |
| Normal flow | 1. Admin selects an account and clicks on delete button. 2. EMS shows the message “Warning, this action can not be undone. Do you continue?”. 3. Admin selects yes. 4. EMS removes the information stored about that account and shows message “Account removed successfully!”. | | |
| Alternative flows | 30. Admin selects no.  40. Return to step 1. | | |
| Exceptions |  | | |

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| ID and name | UC-4: Update account | | |
| Primary actor | Admin | Secondary actors | EMS |
| Description | Admin selects an account, modifies information about it and updates. | | |
| Trigger | Admin wants to update an account. | | |
| Preconditions | PRE-1: Admin is logged in. | | |
| Postconditions | POST-1: the new info about the account is stored in EMS. | | |
| Normal flow | 1. Admin selects an account. 2. EMS shows information about this account. 3. Admin modifies the fields and click on update button. 4. EMS validates the new values. (see 4.0.E1) 5. EMS stores the new info and shows message “Account updated successfully!”. | | |
| Alternative flows |  | | |
| Exceptions | **4.0.E1 Invalid new values**   1. The new info are not valid and EMS shows a message according to the error. 2. Return to step 3. | | |

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| ID and name | UC-5: Assign task | | |
| Primary actor | Boss | Secondary actors | EMS |
| Description | The boss creates a task, write a description about it and assigns it to an employee. | | |
| Trigger | Boss wants to assign a task to someone. | | |
| Preconditions | PRE-1: boss is logged in from a terminal for him | | |
| Postconditions | POST-1: the task is stored by EMS  POST-2: the employee can see the task that has been assigned to him | | |
| Normal flow | 1. EMS shows a list with logged employees. 2. Boss selects an employee 3. EMS shows info about this employee and his tasks 4. Boss completes task’s title and description and clicks on assign task button. 5. EMS validates the fields. (see 5.0.E1) 6. EMS stores the info about the task and shows message “Task assigned!”. | | |
| Alternative flows |  | | |
| Exceptions | **5.0.E1 Invalid title**   1. Title is empty and EMS shows message “Invalid title!”. 2. Return to step 4. | | |

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| ID and name | UC-6: Complete task | | |
| Primary actor | Employee | Secondary actors | EMS |
| Description | An employee completes a task. | | |
| Trigger | Employee wants to notify that he completed a task. | | |
| Preconditions | PRE-1: employee is logged in a terminal | | |
| Postconditions | POST-1: the task status is modified as “COMPLETED” | | |
| Normal flow | 1. Employee selects a task, enters the finish time and clicks on complete task button. 2. EMS validates the time. (see 6.0.E1) 3. EMS stores the info about the task and shows message “Task completed!” | | |
| Alternative flows |  | | |
| Exceptions | **6.0.E1 Invalid finish time**   1. EMS detects that the entered time is after system time and shows message “Invalid time!”. 2. Return to step 1. | | |

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| ID and name | UC-7: Leave work | | |
| Primary actor | Employee | Secondary actors | EMS |
| Description | Employee finished his work day and logs out. | | |
| Trigger | Employee wants to finish the work day. | | |
| Preconditions | PRE-1: employee is logged | | |
| Postconditions | POST-1: employee status is changed to “OFF”  POST-2: the boss is notified about employee’s leave | | |
| Normal flow | 1. Employee clicks on “Leave work” button. 2. EMS stores the log out info | | |
| Alternative flows |  | | |
| Exceptions |  | | |