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| **USE CASE NAME:** | Add Investigator | **USE CASE TYPE** |
| **USE CASE ID:** | 7 | **Business Requirements: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | The payroll clerk | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the payroll clerk to add an investigator’s details. | |
| **PRE-CONDITIONS:** | The payroll clerk has logged onto the system | |
| **TYPICAL COURSE** | 1. The payroll clerk selects the “Add Investigator” function. 2. The system displays the “Add Investigator” form with all fields blank. 3. The payroll clerk enters the investigator’s id (1 to 99999 inclusive), last name, first name, street address, suburb, phone number, and hourly rate (25.00 to 200.00 inclusive). 4. The system confirms that the details are filled in correctly. 5. The payroll clerk selects add the investigator. 6. The system saves the investigator’s details (investigator id, last name, first name, street address, suburb, phone number, and hourly rate). 7. The system displays the “Investigator added successfully” message. 8. The system displays the “Add another investigator?” prompt. 9. Terminate Use Case | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 4a. The system identifies that the details are missing or incorrect.  5a. The system prompts for the completion of the details. | |
| 5b. The payroll clerk selects cancel.  6b. The system closes the form. | |
| 8c. The payroll clerk elects to add another investigator.  9c. The system displays the “Add Investigator” form with all fields blank. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Update Investigator | **USE CASE TYPE** |
| **USE CASE ID:** | 8 | **Business Requirements: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | The payroll clerk | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the payroll clerk to update a selected investigator’s details. | |
| **PRE-CONDITIONS:** | The payroll clerk has logged onto the system | |
| **TYPICAL COURSE** | 1. The payroll clerk selects the “Update Investigator” function. 2. The system displays the “Update Investigator” form and displays a list of all the investigators (investigator id, last name, and first name). 3. The payroll clerk either selects the investigator that has details that needs updating or elects to cancel the operation and the system closes the form. 4. The system displays the investigator’s details (investigator id, last name, first name, street address, suburb, phone number, and hourly rate) 5. The payroll clerk updates the relevant details (last name, first name, street address, suburb, phone number, and hourly rate only). 6. The system validates the entries in the fields prompts for confirmation to change the investigator’s details. 7. The payroll clerk confirms the change of details. 8. The system saves the investigator’s details. 9. The system displays the “Investigator updated successfully” message. 10. The system displays the “Update another investigator?” prompt. 11. The payroll clerk elects to end the use case and the system closes the form. 12. Terminate use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 6a. The system identifies missing or incorrect fields and prompts for completion of the entry. | |
| 7b. The payroll clerk cancels the changes.  8b. The system ends the use case. | |
| 11c. The payroll clerk elects to update another investigator and the system displays the “Update Investigator” form and displays a list of all the investigators (investigator id, last name, and first name). | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Delete Investigator | **USE CASE TYPE** |
| **USE CASE ID:** | 9 | **Business Requirements: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | the payroll clerk | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the payroll clerk to delete a selected investigator’s details. | |
| **PRE-CONDITIONS:** | The payroll clerk has logged onto the system. | |
| **TYPICAL COURSE** | 1. The payroll clerk selects the “Delete Investigator” function. 2. The system displays the “Delete Investigator” form and displays a list of all the investigators (investigator id, last name, and first name) who have no cases assigned. 3. The payroll clerk selects the investigator that requires deleting. 4. The system displays the investigator’s details (investigator ID, last name, first name, street address, and suburby). 5. The payroll clerk elects to delete the investigator. 6. The system deletes the investigator. 7. The system displays the “Investigator deleted successfully” message. 8. The system displays the “Delete another investigator?” prompt. 9. The payroll clerk elects to end the use case and the system closes the form. 10. Terminate use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 3a. The payroll clerk elects to cancel the operation and the system closes the form. | |
| 5b. The payroll clerk elects to cancel the operation and the system closes the form. | |
| 9c. The payroll clerk elects to delete another investigator and  10c. The system displays the “Delete Investigator” form and displays a list of all the investigators (investigator id, last name, and first name) who have no cases assigned. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Produce Investigators Report | **USE CASE TYPE** |
| **USE CASE ID:** | 10 | **Business Requirements: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | The payroll clerk | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the payroll clerk to produce the investigators report. | |
| **PRE-CONDITIONS:** | The payroll clerk has logged onto the system | |
| **TYPICAL COURSE** | 1. The payroll clerk selects the “Investigators Report” function 2. The system displays the “Investigators Report” form. 3. The payroll clerk selects the option to generate the report. 4. The system gets the details (investigator id, last name, first name, street address, suburb, phone number, and hourly rate) of each investigator. 5. The system counts the number of cases assigned for each investigator. 6. The system then displays the investigators report (investigator id, last name, first name, street address, suburb, phone number, hourly rate, and number of cases assigned for each investigator) sorted by first name within last name. 7. The system concludes the use case by closing the form. 8. Terminate use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 3a. The payroll clerk elects to cancel without generating the report  4a. The system closes the form. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Assign Investigator | **USE CASE TYPE** |
| **USE CASE ID:** | 21 | **Business Requirements: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | The assistant administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the assistant administrator to assign an investigator to a selected case. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | 1. The assistant administrator selects the “Assign Investigator” function. 2. The system displays the “Assign Investigator” form and displays a list of all the current cases (case id and description). 3. The assistant administrator selects the case to assign the investigator to. 4. The system displays the case’s details (case id, description, client last name, and client first name). 5. The system displays the list of investigators (investigator id, last name, first name, and hours) already assigned to the case. 6. The system displays a list of the investigators (investigator id, last name and first name). 7. The assistant administrator selects an investigator. 8. The assistant administrator enters the number of hours (1 to 200 inclusive) for the assignment. 9. The assistant administrator elects to assign the investigator to the case. 10. The system saves the assignment details (investigator, case, fee, and role) unless the investigator has already been assigned in which case an error message is displayed and the system displays a list of the investigators (investigator id, last name and first name). 11. The system displays the “Investigator assigned successfully” message. 12. The system displays the “Assign another investigator?” prompt. 13. The assistant administrator elects to end the use case and the system closes the form. 14. Terminate use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 3a. The assistant administrator elects to cancel the operation  4a. The system closes the form. | |
| 9b. The assistant administrator elects to cancel the operation  10b. The system closes the form. | |
| 13c. The assistant administrator elects to assign another investigator .  14c. The system displays the “Assign Investigator” form and displays a list of all the current cases (case id and description). | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Remove Investigator | **USE CASE TYPE** |
| **USE CASE ID:** | 22 | **Business Requirements: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | The assistant administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the assistant administrator to remove an investigator from a selected case. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | 1. The assistant administrator selects the “Remove Investigator” function. 2. The system displays the “Remove Investigator” form and displays a list of all the current cases (case id and description) that have assignments. 3. The assistant administrator selects the case to remove the investigator from. 4. The system displays the case’s details (case id, description, client last name, and client first name). 5. The system displays the list of investigators (investigator id, last name, first name, and hours) assigned to the case. 6. The assistant administrator selects an investigator. 7. The assistant administrator elects to remove the investigator from the case. 8. The system deletes the assignment’s details. 9. The system displays the “Investigator removed successfully” message. 10. The system displays the “Remove another investigator?” prompt. 11. The assistant administrator elects to end the use case and the system closes the form. 12. Terminate use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 3a. The assistant administrator elects to cancel the operation  4a. The system closes the form. | |
| 7b. The assistant administrator elects to cancel the operation  8b. The system closes the form. | |
| 11c. The assistant administrator elects to remove another investigator. 12c. the system displays the “Remove Investigator” form and displays a list of all the current cases (case id and description) that have assignments. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Close Case | **USE CASE TYPE** |
| **USE CASE ID:** | 27 | **Business Requirements: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | The assistant administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the assistant administrator to close a selected billed case. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | 1. The assistant administrator selects the “Close Case” function. 2. The system displays the “Close Case” form and displays a list of all the billed cases (case id and description) that have payments. 3. The assistant administrator selects the case to close. 4. The system displays the case’s details (case id, description, and case date). 5. The assistant administrator elects to close the case. 6. The system gets the amount, expense name and cost from each expenditure for the case. 7. The system gets the hours, last name, first name, hourly rate for each investigator assigned to the case. 8. The system calculates the investigators’ cost by summing the product of each assignment’s hours and investigator’s hourly rate. 9. The system calculates the amount due by summing the product of each expenditure’s amount and expense’s cost and adding it to investigators’ cost. 10. The system calculates the amount paid (the sum of all payments made) on the case. 11. The amount due is equal to or less than the amount paid, then the system updates the status of the case to closed, updates the status to available and the case id to null of all equipment allocated to the case, deletes all expenses related to the case, and displays the message “Case closed successfully” and the “Close another case” prompt “. 12. The assistant administrator elects to end the use case and the system closes the form. 13. Terminate use case | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 3a. The assistant administrator elects to cancel the operation.  3b. The system closes the form. | |
| 11b. The amount due is greater than the amount paid.  12b. The system displays the message “Full payment has not been made yet” | |
| 12c. The system administrator elects to close another case.  13c. The system displays the “Close Case” form and displays a list of all the billed cases (case id and description) that have payments. | |
| **POST CONDITIONS:** | The case’s status is set to closed | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Produce Assignments Report | **USE CASE TYPE** |
| **USE CASE ID:** | 30 | **Business Requirements: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | The assistant administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the assistant administrator to produce the assignments report | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | 1. The assistant administrator selects the “Produce Assignments Report” function 2. The system displays the “Assignments Report” form. 3. The assistant administrator selects the option to generate the report. 4. The system gets the details (case id, case description, hours, investigator’s id, last name, and first name) of each assignment. 5. The system then displays the assignment report (case id, case description, hours, investigator’s id, last name, and first name) sorted by case id. 6. The system concludes the use case by closing the form. 7. Terminate use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 3a. The assistant administrator elects to cancel, without generating the report.  4a.The system closes the form. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |