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| **USE CASE NAME:** | Add Patient | **USE CASE TYPE** |
| **USE CASE ID:** | 1 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Assistant Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case allows the assistant administrator to add a patient’s details. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The assistant administrator selects the “Add Patient” function.  Step 2: The system displays the “Add Patient” form with all fields blank.  Step 3: The assistant administrator enters the patient’s ID, last name, first name, street address, suburb, city, email address, phone number, and insurance code.  Step 4: The system confirms that the details are filled in correctly.  Step 5: The assistant administrator chooses to add the patient.  Step 6: The system saves the patient’s details (patient id, last name, first name, street address, suburb, city, email address, phone number, and insurance code).  Step 7: The system displays the “Patient added successfully” message.  Step 8: The system displays the “Add another patient?” prompt.  Step 8: The assistant administrator chooses to end the use case.  Step 9: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 4a1: The system identifies that the details are missing or incorrect, prompts for the completion of the details.  Step 4a2: The system goes to step 3. | |
| Step 5a1: The assistant administrator chooses to cancel the operation.  Step 5a2: The system goes to step 9. | |
|  | Step 8a1: The assistant administrator chooses to add another patient.  Step 8a2: The system goes to step 2. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Update Patient | **USE CASE TYPE** |
| **USE CASE ID:** | 2 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Assistant Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case allows the assistant administrator to update a selected patient’s details. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The assistant administrator selects the “Update Patient” function.  Step 2: The system displays the “Update Patient” form.  Step 3: The system gets all the patient’s details.  Step 4: The system displays the list of all the patients (patient ID, last name and first name).  Step 5: The assistant administrator selects the patient that has details that needs updating.  Step 6: The system displays the selected patient’s details (patient id, last name, first name, street address, suburb, city, phone number, email address, and insurance code).  Step 7: The assistant administrator updates the relevant patient’s details (last name, first name, street address, suburb, city, phone number, email address, and insurance code only).  Step 8: The system validates the entries in the fields and prompts for confirmation to change the patients details.  Step 9: The assistant administrator confirms the change of details.  Step 10: The system saves the patient’s details.  Step 11: The system displays the “Patient updated successfully” message.  Step 12: The system displays the “Update another patient?” prompt.  Step 13: The assistant administrator chooses to end the use case.  Step 14: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 5a1: The assistant administrator chooses to cancel the operation.  Step 5a2: The system goes to step 14. | |
| Step 8a1: The system identifies missing or incorrect fields, prompts for the completion of the entry.  Step 8a2: The system returns to step 7. | |
|  | Step 8a1: The assistant administrator chooses to cancel the changes.  Step 8a2: The system goes to step 14. | |
|  | Step 13a1: The assistant administrator chooses to update another patient.  Step 13a2: The system returns to step 3. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Display Main Menu | **USE CASE TYPE** |
| **USE CASE ID:** | 1 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Assistant administrator | |
| **OTHER PARTICIPATING ACTORS:** | Research administrator | |
| **DESCRIPTION:** | This use case allows assistant administrator or research administrator to start the application and select options. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The assistant administrator or research administrator starts the “Saint Albert Hospital Management” application.  Step 2: The system creates the data controller object that connects the application to the database  Step 3: The system displays the “Main Menu” form with the following options:   1. Add a patient 2. Update a patient 3. Delete a patient 4. Produce patients report 5. Record a payment 6. Add a research topic 7. Update a research topic 8. Delete a research topic   Step 4: The assistant administrator or research administrator selects an option.  Step 5: The system loads the corresponding form.  Step 6: The assistant administrator or research administrator clicks on the “Exit” button.  Step 7: The system closes the application. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 4a1: The administrator clicks on the “Exit” button.  Step 4a2: The system goes to step 7. | |
| Step 6a1: The research administrator elects to select another option (either options 1, 2, 3, 4, or 5).  Step 6a2: The system goes back to step 3.  Step 6b1: The research administrator elects to select another option (either options 6, 7 or 8).  Step 6b2: The system goes back to step 3. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Delete Patient | **USE CASE TYPE** |
| **USE CASE ID:** | 3 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Assistant Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case allows the assistant administrator to delete a selected patient’s details. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The assistant administrator selects the “Delete Patient” function.  Step 2: The system displays the “Delete Patient” form.  Step 3: The system gets all the patient’s details.  Step 4: The system displays the list of all the patients (patient ID, last name and first name) who have no admissions.  Step 5: The assistant administrator selects the patient that requires deleting.  Step 6: The system gets the selected patient’s details.  Step 7: The system displays the patient’s details (patient ID, last name, first name, street address, suburb, city, phone number).  Step 8: The assistant administrator chooses to delete the patient.  Step 9: The system checks if the patient has any admissions.  Step 10: The system deletes the patient.  Step 11: The system displays the “Patient deleted successfully” message.  Step 12: The system displays the “Delete another patient?” prompt.  Step 13: The assistant administrator chooses to end the use case.  Step 14: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 5a1: The assistant administrator chooses to cancel the operation.  Step 5a2: The system goes to step 14. | |
| Step 8a1: The assistant administrator chooses to cancel the operation.  Step 8a2: The system goes to step 14. | |
|  | Step 13a1: The assistant administrator chooses to delete another patient.  Step 13a2: The system goes to step 3. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Produce Patients Report | **USE CASE TYPE** |
| **USE CASE ID:** | 4 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Assistant Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case allows the assistant administrator to produce the patients report. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The assistant administrator selects the “Produce Patients Report” function.  Step 2: The system displays the “Produce Patients Report” form.  Step 3: They assistant administrator chooses the option to generate the report.  Step 4: The system gets the details (patient ID, last name, first name, street address, suburb, city, phone number, email address, and insurance code) of each patient.  Step 5: The system counts the number of complete admissions for each patient.  Step 6: The system counts the number of current admissions for each patient.  Step 7: The system displays the patient’s report (patient ID, last name, first name, street address, suburb, city, phone number, email address, insurance code, count of complete admissions and count of current admissions for each patient) sorted by first name within last name.  Step 8: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 3a1: The assistant administrator chooses to cancel without generating the report.  Step 3a2: The system goes to step 8. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Record Payment | **USE CASE TYPE** |
| **USE CASE ID:** | 5 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Assistant Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case allows the assistant administrator to record a payment made by a patient against a selected admission. | |
| **PRE-CONDITIONS:** | The assistant administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The assistant administrator selects the “Record Payment” function.  Step 2: The system displays the “Record Payment” form.  Step 3: The system gets the list of all the patients that have billed admissions.  Step 4: The system displays the list of all the patients (patient ID, last name and first name) that have billed admissions.  Step 5: The assistant administrator selects the patient who is making the payment.  Step 6: The system gets the details of the selected patient.  Step 7: The system displays the patient’s details (patient ID, last name and first name).  Step 8: The system displays a list of the patient’s billed admissions (admission ID and description).  Step 9: The assistant administrator selects an admission.  Step 10: The assistant administrator enters the payment amount.  Step 11: The assistant administrator chooses to record the payment.  Step12: The system generates a unique value for the payment code.  Step 13: The system saves the payment (payment code, admission, amount, and today’s date).  Step 14: The assistant administrator chooses to end the use case.  Step 15: The system closes the form to end the use case. | |
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| **ALTERNATE COURSES:** | Step 5a1: The assistant administrator chooses to cancel the operation.  Step 5a2: The system goes to step 15. | |
| Step 11a1: The assistant administrator chooses to cancel the operation.  Step 11a2: The system goes to step 15. | |
| Step 14a1: The assistant administrator chooses to record another payment.  Step 14a2: The system returns to step 3. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Add Research Topic | **USE CASE TYPE** |
| **USE CASE ID:** | 29 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Research Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case allows the research administrator to add a research topic’s details. | |
| **PRE-CONDITIONS:** | The research administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The research administrator selects the “Add Research Topic” function.  Step 2: The system displays the “Add Research Topic” form with all fields blank.  Step 3: The research administrator enters the research topic’s description and level.  Step 4: The system confirms that the details are filled in correctly.  Step 5: The research administrator chooses to add the ward.  Step 6: The system generates a unique value for the research topic ID.  Step 7: The system saves the research topic’s details (research topic ID, description, and level).  Step 8: The system displays the “Research topic added successfully” message.  Step 9: The system displays the “Add another research topic?” prompt.  Step 10: The research administrator chooses to end the use case.  Step 11: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 4a1: The system identifies that the details are missing or incorrect, prompts for the completion of the details.  Step 4a2: The system goes to step 3. | |
| Step 5a1: The assistant administrator chooses to cancel the operation.  Step 5a2: The system goes to step 11. | |
| Step 10a1: The assistant administrator chooses to add another research topic.  Step 10a2: The system returns to step 2. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Update Research Topic | **USE CASE TYPE** |
| **USE CASE ID:** | 30 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Research Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case allows the research administrator to update a selected research topic’s details. | |
| **PRE-CONDITIONS:** | The research administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The research administrator selects the “Update Research Topic” function.  Step 2: The system gets details of all the research topics.  Step 3: The system displays a list of all the research topics (research topic ID and description).  Step 4: The research administrator selects the research topic whose details need updating.  Step 5: The system gets the details of the selected research topic.  Step 6: The system displays the research topic’s details (research topic ID, description and level).  Step 7: The research administrator updates the relevant details (description and level only).  Step 8: The system validates the entries in the fields and asks for confirmation to change the research topic’s details.  Step 9: The research administrator confirms the change of details.  Step 10: The system saves the research topic’s details.  Step 11: The system displays the “Research topic updated successfully” message.  Step 12: The system displays the “Update another research topic?” prompt.  Step 13: The research administrator chooses to end the use case.  Step 14: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 4a1: The research administrator chooses to cancel the operation.  Step 4a2: The system goes to step 14. | |
| Step 8a1: The system identifies that the details are missing or incorrect, prompts for the completion of the entry.  Step 8a2: The system returns to step 7. | |
| Step 9a1: The research administrator chooses to cancel the changes.  Step 9a2: The system goes to step 14. | |
| Step 10a1: The research administrator chooses to update another research topic.  Step 10a2: The system returns to step 2. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Delete Research Topic | **USE CASE TYPE** |
| **USE CASE ID:** | 31 | **Design Requirements: 🞎** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Research Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case allows the research administrator to delete a selected research topic’s details. | |
| **PRE-CONDITIONS:** | The research administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The research administrator selects the “Delete Research Topic” function.  Step 2: The system gets details of all the research topics.  Step 3: The system displays a list of all the research topics (research topic ID and description) that are not linked to any research projects.  Step 4: The research administrator selects the research topic that requires deleting.  Step 5: The system gets the details of the selected research topic.  Step 6: The system displays the research topic’s details (research topic ID, description and level).  Step 7: The research administrator chooses to delete the research topic.  Step 8: The system deletes the research topic’s details.  Step 9: The system displays the “Research topic deleted successfully” message.  Step 10: The system displays the “Delete another research topic?” message.  Step 11: The research administrator chooses to end the use case.  Step 12: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 4a1: The research administrator chooses to cancel the operation.  Step 4a2: The system goes to step 12. | |
| Step 7a1: The research administrator chooses to cancel the changes.  Step 7a2: The system goes to step 12. | |
| Step 11a1: The assistant administrator chooses to delete another research topic.  Step 11a2: The system returns to step 2. | |
| **POST CONDITIONS:** | None | |
| **ASSUMPTIONS:** | None | |