**Name:**

**Registration #:**

**eClinician: Use Case Description**

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| **Use Case Number: 1** | | |
| **Name** Doctors CRUD | | |
| **Brief description** This use case provides all the doctors functionalities | | |
| **Actors:** Doctor | | |
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| **Preconditions** | | |
| Doctor must be logged in | | |
| **Flows of Events:** | | |
| 1. **Basic Flows** | | |
| * + 1. **View patient medical records** | | |
| **Step** | **User actions** | **System Action** |
| 1 | The doctor requests for a list of patients' medical records | The system returns a list of all patients' medical records. |
| 2 | The doctor selects the patient medical records for the list | The system returns single patient’s medical records |
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| **1.1.2. Update patient medical records** | | |
| 1 | The doctor requests for a list of patients' medical records | The system returns a list of all patients' medical records. |
| 2 | The doctor selects the patient medical records they want to update. | The system displays an editable form with the patient’s medical records details. |
| 3 | The doctor updates/adds the parts they want to update/add and request the system to save the new details | The system updates the patient’s medical records and returns a success message or fail message on exception. |
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| **Postconditions** | | |
| The patient’s medical records are saved to the database | | |
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| **Business Rules** | | |
| The patient id should be unwritable | | |
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| **1.1.3. Schedule appointments** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | Doctor requests for available appointment dates. | The system displays available dates to schedule appointments. |
| 2 | Doctor selects the most Favour arable date for the patient. | The system returns a form with the selected date and other empty fields. |
| 3 | The doctor fills in the details of the patient scheduling an appointment. | The system saves the appointment date and returns a confirmation for the scheduled date. |
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| **Postconditions** | | |
| The scheduled appointment is saved | | |
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| **Business rule** | | |
| The scheduled date should never be the same for different patient with same doctor | | |
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| **1.1.4. Send prescription** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | Doctor prescribes medicine to the patient | The system lists all the prescribed medicine for a particular patient. |
| 2 | Doctor sends the prescription to the pharmacist for dispensing. | The system submits prescriptions and will be viewed by the pharmacist. Returns confirmation message of submission. |
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| **Postconditions** | | |
| The prescription is saved among the patient medical records also | | |
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| **Business Rule** | | |
| Every prescription should be entered as a new record | | |

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| **Use Case Number: 2** | | |
| **Name** Patient CRUD | | |
| **Brief description** This use case provides all the patient functionalities | | |
| **Actors:** Patient | | |
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| **Preconditions** | | |
| The patient must be logged in to the system | | |
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| **Flows of Events:** | | |
| 1. **Basic Flows** | | |
| * + 1. **Book appointment** | | |
| **Step** | **User actions** | **System Action** |
| **1** | The patient requests for available appointment dates | The system displays the list of available appointment dates |
| **2** | The patient selects a date | The system displays the list of doctors available |
| **3** | The patient selects a doctor | The System create the appointment, send an email to the doctor, and return a Succes message to the patient. In case of an error, the system returns the error to the patient |
| **Postconditions** | | |
| The appointment must be saved in the database | | |
| The doctor must receive an email about the appointment | | |
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| **Business Rules** | | |
| No two appointment at the same time | | |
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| * + 1. **View medical records** | | |
| **Step** | **User Actions** | **System Actions** |
| **1** | The patient clicks on the view record button | The system displays the list of his/her medical records with pagination |
| **2** | The patient selects a record to view the details | The system displays in a new page the medical record information |
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| **Postconditions** | | |
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| **Business rule** | | |
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| * + 1. **Requests prescriptions** | | |
| **Step** | **User Actions** | **System Actions** |
| **1** | The patient clicks on the request prescription button | The system displays the form to the patient |
| **2** | The patient fills out the form and clicks on save | The System verifies the form is correctly filled out, save the prescription, and notifies the pharmacists |
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| **Postconditions** | | |
| The prescription must be saved to the database | | |
| The System must notify the pharmacists | | |
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| **Business rule** | | |
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| * + 1. **Pay bills** | | |
| **Step** | **User Actions** | **System Actions** |
| **1** | The patient clicks on pay bill button | The System verifies the patient has a credit or debit card saved, if not the system displays the form with the card information form, otherwise display only the form with the card information in the database |
| **2** | The patient fills out the form and clicks on pay | The System proceeds to the payment and shows the success message with a confirmation email. If an error occurs, the system shows the error to the patient |
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| **Postconditions** | | |
| The payment must be saved to the database | | |
| The System must email the patient if success payment | | |
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| **Business rule** | | |
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| * + 1. **Text a doctor** | | |
| **Step** | **User Actions** | **System Actions** |
| **1** | The patient clicks on the message icon | The system displays the patient’s inbox |
| **2** | The patient selects the doctor | The System displays the chat history with a text input |
| **3** | The patient inserts the message in the text input and clicks send | The System sends the message to the doctor |
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| **Postconditions** | | |
| The message must be saved to the database | | |
| The System must notify the doctor | | |
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| **Business rule** | | |
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| **Use Case Number: 3** | | |
| **Name** Pharmacist CRUD | | |
| **Brief description** This use case provides all the pharmacist functionalities | | |
| **Actors:** Pharmacist | | |
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| **Preconditions** | | |
| The pharmacist must be logged in to the system | | |
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| **Flows of Events:** | | |
| 1. **Basic Flows** | | |
| * + 1. **Fills prescription** | | |
| **Step** | **User actions** | **System Action** |
| **1** | The pharmacist clicks on the new prescription button | The system displays the prescription form |
| **2** | The Pharmacist fills out the form and clicks on send | The System verifies the form is correct, saves in the database and send a notification to the patient |
|  |  |  |
| **Postconditions** | | |
| The prescription must be saved to the database | | |
| The system must notify the patient | | |
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| **Business Rules** | | |
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| * + 1. **View prescription Requests** | | |
| **Step** | **User Actions** | **System Actions** |
| **1** | The pharmacist clicks on the prescriptions button | The System displays the new prescription requests |
| **2** | The pharmacist clicks on a prescription request | The System displays the prescription requests information with a new prescription button |
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| **Postconditions** | | |
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| **Business rule** | | |
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| **Postconditions** | | |
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| **Business rule** | | |
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| **Use Case Number: 4** | | |
| **Name Hospital Staff CRUD** | | |
| **Brief description This use case helps the hospital staff perform administrative tasks** | | |
| **Actors:** Hospital staff | | |
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| **Preconditions** | | |
| **The user should be logged in to the system** | | |
| **Flows of Events:** | | |
| 1. **Basic Flows** | | |
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| **Step** | **User actions** | **System Action** |
| **1** | **The hospital Staff calls Register Patient Command** | **The system displays the Register patient form** |
| **2** | **The hospital staff fills out the form and requests the system to save the patient data** | **The system verifies the patient is not in the system and saves it, returns a success or fail message in case of an exception** |
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| **Postconditions** | | |
| **The patient data is persisted in the system** | | |
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| **Business Rules** | | |
| **No duplicate patient data** | | |
| * + 1. **Admit patient** | | |
| **Step** | **User Actions** | **System Actions** |
| **1** | **The hospital staff searches the patient in the system** | **The system returns the patient details and populates them in the User Interface** |
| **2** | **The hospital staff selects admit patient** | **The system processes the admission request and displays a confirmation message** |
| **Postconditions** | | |
| **The patient changes state to admitted** | | |
| **Business rule** | | |
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| * + 1. **Discharge Patient** | | |
| **Step** | **User Actions** | **System Actions** |
|  | **The Hospital staff searches for the patient in the system** | **The system returns the patient record in the User Interface** |
|  | **The hospital staff selects discharge patient** | **The system performs the discharge action and displays a confirmation message** |
| **Postconditions** | | |
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| **Business rule** | | |
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| * + 1. **Transfer patient** | | |
| **Step** | **User Actions** | **System Actions** |
|  | **The hospital staff searches for the patient in the system** | **The system shows the patient record in the user interface** |
|  | **The hospital staff selects transfer patient** | **The system performs the transfer and shows a confirmation message** |
| **Postconditions** | | |
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| **Business rule** | | |
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