**Group members:**

Santiago Jose Belalcazar / A00381777

Daniel Escobar Vacaflor / A00381157

Luis Fernando Pinillos / A00381323

Requirement

* The program must allow to register a new patient.
* The program must allow to add a patient to a specific queue.
* The program must have an initial database charge of the patients that were already registered in the clinic.
* The program must be able of searching a patient.
* The program must have an undo option in order to fix any mistake of adding or deleting a patient.
* The program must be able to show the patients entered in the lab.
* The program must be able to show to the user the attention order of the patients.
* The program must remove the patient when he has already been treated.

**Requirement specification**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | R1: Register patient | | |
| Summary | The program has to be able od adding the patient into the database and adding the patient in the queue that he/she requires | | |
| Inputs | Input name | Type | Selection or condition for repetition |
| Id | String | When someone wants to register a new patient |
|  | name | String | When someone wants to register a new patient |
|  | lastName | String | When someone wants to register a new patient |
|  | gender | String | When someone wants to register a new patient |
|  | age | int | When someone wants to register a new patient |
|  | pregnancyChoose | String | When someone wants to register a new patient |
|  | ill | String | When someone wants to register a new patient |
|  | importance | int | When someone wants to register a new patient |
|  | priorityValue | Int | When someone wants to register a new patient |
| Result or post condition | The patient is now save into the database and is added to a specific queue. | | |
| Outputs | Nombre entrada | Tipo de dato | Condición de selección o repetición |
|  |  | “Patient added succesfully” |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | R2: Add patient to a queue | | |
| Summary | The program has to be able to add a patient to a specific queue (priority queue or general queue) and adding the patient to an specific unit (Hematology or general purpose) | | |
| Inputs | Input name | Type | Selection or condition for repetition |
| Id | String | When someone wants to register a new patient |
|  | priorityValue | int | When someone wants to register a new patient |
|  | unity | int | When someone wants to register a new patient |
| Result or post condition | The patient is now added to a specific unit and into a specific queue (priority queue or normal queue) | | |
| Outputs | Nombre entrada | Tipo de dato | Condición de selección o repetición |
|  |  |  |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | R2: Add patient to a queue | | |
| Summary | The program has to be able to add a patient to a specific queue (priority queue or general queue) and adding the patient to an specific unit (Hematology or general purpose) | | |
| Inputs | Input name | Type | Selection or condition for repetition |
| Id | String | When someone wants to register a new patient |
|  | priorityValue | int | When someone wants to register a new patient |
|  | unity | int | When someone wants to register a new patient |
| Result or post condition | The patient is now added to a specific unit and into a specific queue (priority queue or normal queue) | | |
| Outputs | Nombre entrada | Tipo de dato | Condición de selección o repetición |
|  |  |  |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | R3: Charge database into the program | | |
| Summary | The program has to be able of charging a database in which there are patients already registered | | |
| Inputs | Input name | Type | Selection or condition for repetition |
| archivo | File | Only when the program is started |
| Result or post condition | The database is now charged into the program. | | |
| Outputs | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| line | String | It shows the people that is on the database |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | R4: Search a patient | | |
| Summary | The program has to be able of searching a patient that is already registered. | | |
| Inputs | Input name | Type | Selection or condition for repetition |
|  |  |  |  |
| Result or post condition | The patient is now save into the database and is added to a specific queue. | | |
| Outputs | Nombre entrada | Tipo de dato | Condición de selección o repetición |
|  |  | The patient information or if it is not registered “The patient is not entered yet” |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | R5: undo option | | |
| Summary | The program needs an undo option | | |
| Inputs | Input name | Type | Selection or condition for repetition |
|  |  |  |  |
|  |  |  |  |
| Result or post condition | The patient is now save into the database and is added to a specific queue. | | |
| Outputs | Nombre entrada | Tipo de dato | Condición de selección o repetición |
|  |  | “The action has been reverted” |
|  |  |  |