**Blood Call and Search Management System:**

**Use-Case Glossary:**

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| --- | --- | --- |
| **Use-Case Id-Name** | **Description** | **Participating Roles and their actions** |
| **4.1- :** nearest zone availability check | informs donor availability in the nearest badhon zone | USR checks nearest zone and availability of donor, system provides the information required |
| **4.2**-Emergency Blood Call Notification | notifies about the required blood group | ZM notifies the respective UM about blood call and emergency blood group, UM receives notification |
| **4.3-** List available donor information | informs about the available donor, their current blood donation statistics and contact information of the required blood group in the respective units | UM searches the blood donor of required blood group and their information, system checks and provide all the information regarding queries |
| **4.4-** Selecting available donor (**depends on Use-Case id-4.3**) | publishes willing donor list and their current blood donation statistics | UM publishes the list of willing donor, ZM access the list and make necessary steps |
| **4.5-** Member search | search about current badhon members respective to unit, zone, central | CM,ZM search and query about badhon members, system provides respective information regarding the members |

## Use-Case ID - 4.1

* **Use-Case Name:** nearest zone availability check
* **Priority:** High
* **Primary Business Actor:** user(USR)
* **External Server Actor:** time(SYS)
* **Description:** system informs about donor availability in the nearest badhon zone
* **Trigger:** By USR
* **Typical Course of Events:**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| USR checks the nearest zone of badhon | System checks out users current location and retrieve the nearest zone |
| User then checks if required blood donor is available in that zone | System responded with yes /no |
| If no then USR checks the other badhon zone and if any donor available there | SYS retrieve these information from database and inform the USR |
| USR checks the contact information of the required zone | System respond with all contact information the other process to make blood call |

* **Documentation of the Use-Case(4.1) Course Of the Events:**
* **Conclusion:**  USR will get to know where and how to find blood donor promptly
* **Post-Condition:** USR calls the badhon office to verify and let them know about their required blood
* **Implementation Issues:** the whole checking zone, donor availability and blood calling process can be done through a small app and a web page will be available too

## Use-Case ID - 4.2

* **Use-Case Name:** Emergency Blood Call Notification
* **Priority:** High
* **Primary System Actor:** zonal member(ZM)
* **External Receiver Actor:** unit member(UM)
* **Description:** notifies UM about the required blood group and time
* **Trigger:** By ZM
* **Typical Course of Events:**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| ZM sends notification to all the unit members(UM) in his zone about the required blood group and time to find donor | system forwards this notification to the UM |
| UM gets the notification and starts their job |  |

* **Documentation of the Use-Case(4.2) Course Of the Events:**
* **Conclusion:**  UM will be notified about need of emergency blood within a short span
* **Post-Condition:** UM will be notified and start extracting the list of available donor
* **Implementation Issues:** to alert the UM about emergency blood is maintained by the system

## Use-Case ID - 4.3

* **Use-Case Name:** List available donor information
* **Priority:** High
* **Primary System Actor:** unit member(UM)
* **External Server Actor:** time
* **Description:** system informs about the available donor, their current blood donation statistics and contact information of the required blood group in the respective units
* **Trigger:** By UM
* **Typical Course of Events:**

|  |  |
| --- | --- |
| **Actor Action** | **System Response** |
| UM queries about the required blood group | System extracts information about the donor of the respective blood group from database and provide with their necessary information |
| UM checks donor’s current blood donation statistics and queries if blood donation possible | System responds with yes /no |
| UM is notified about available donor and prepares fresh list |  |

* **Documentation of the Use-Case(4.3) Course Of the Events:**
* **Conclusion:**  UM will find the available donor as well as their contact information and blood donation statistics
* **Post-Condition:** UM then tries to contact with the available donor and finds out who are willing to donate blood that time
* **Implementation Issues:**  the entire extraction of available donor out of the huge list and preparing list is maintained by system database

## Use-Case ID - 4.4

* **Use-Case Name:** Selecting available donor (**depends on Use-Case id-4.3**)
* **Priority:** Medium
* **Primary System Actor:** unit member(UM)
* **External Receiver Actor:** zonal member(ZM)
* **Description:** publishing willing donor list and their current blood donation statistics
* **Trigger:** By UM
* **Typical Course of Events:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Actor Action** | **System Response** |  |  |
| All the respective UM prepares the fresh list of donors, gets the donor |  |  |  |
| They publish the donor name, blood donation info | System will maintain the donor list |  |  |
| ZM can access the willing donor list from system |  |  |  |

* **Documentation of the Use-Case(4.2) Course Of the Events:**
* **Conclusion:**  ZM will be provided with willing donor list and can make decision about which donor to collect blood
* **Post-Condition:** ZM can be notified about the present status of blood collection and can notify the USR if blood donation possible
* **Implementation Issues:** the list of donors published is maintained with a webpage of the system

## Use-Case ID - 4.5

* **Use-Case Name:** Member search
* **Priority:** low
* **Primary System Actor:** time
* **External Receiver Actor:** zonal member(ZM),central member(CM)
* **Description:** search about current badhon members respective to unit, zone, central
* **Trigger:** By time
* **Typical Course of Events:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Actor Action** | **System Response** |  |  |
| CM,ZM search/query about any badhon member | System provides the member information |  |  |
| All external receiver actor can access member information provided by the system |  |  |  |
| They can take necessary actions with the members |  |  |  |

* **Documentation of the Use-Case(4.2) Course Of the Events:**
* **Conclusion:**  all the badhon members can be updated with other members current status, their work process
* **Post-Condition:** CM,ZM,UM can find out any query relating to current,past badhon members
* **Implementation Issues:** the list of member information is managed by system database