|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number | Functions | Objects | Descriptions | Input | Output |
| FR01 | Registering | Patient & medical staff | Patient can register for this application by using their patient ID number as ID and create their own password to make an account to use the app. Meanwhile, medical staff just use their staff ID as login ID and also create their own password. All of these account will be store in database. | New ID and password of log in credentials | New log in account |
| FR02 | Logging in | Patient & medical staff | By using their account to as login credentials to fill in and access the app. | User’s created account | Main interface of application |
| FR03 | Logging version | Patient & medical staff | By selecting a suitable category in a list which fit with the roles of users (2 main categories are patient and medical staff) | Database of users (by registering and sort by categories) | Suitable list of categories for user |

Login screen

Main Interface

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number | Functions | Objects | Descriptions | Input | Output |
| FR04 | User interface | Patient & medical staff | Display information of logged user | Database of users (by registering and sort by categories) | User’s information are displayed |
| FR05 | Timeline heartbeat graph | Patient & medical staff | Will be mainly used by medical staff as tracking patient health through the timeline heartbeat graph. This graph can visible the data of measurement of last recent time. Also, user can use this function as their own curious to see their heartbeat process. | Measuring heartbeat’s data which is stored in database | Visible graph for user |
| FR06 | Timeline selection | Patient & medical staff | This small function allow user to choose which timeline should be shown in the graph by listing a small list of timeline: a day, 3 days, a week, 2 weeks, a month…  This is a small function to support the timeline graph function become more convenient. | Heartbeat measuring data which is stored in database | List of timeline for user choosing |
| FR07 | The current heartbeat | Patient & medical staff | Patient and medical staff can easily witness the current heartbeat during the measuring procedure at that moment through a small heartbeat graph | Measuring heartbeat with online data transfer to database to be stored | Visible graph for user/Specific result at the moment when measuring procedure finished |
| FR08 | Noting | Medical staff | This function allow medical staff give advices to their patients by noting to a small text box. By that way, patient when logging in to the app as a patient, the can receive the notification that come from medical staff’s message | From keyboard of computer, string text from medical staffs | String text for patient which content from medical staffs that show as a short text |
| FR09 | Extra information | Patient | For those patients who have less or no idea about the scale of heartbeat, this function can help them as the extra information about heartbeat, what is good range? What is not good for health ?... whatever that related to health for patients, it can be found in this function and specially for patient’s uses | Built-in application linkable to source of information (websites,..) | Accessible link for user to look up health information |
| FR10 | Start/End measuring | Patient & medical staff | Patients or medical staff can use this function for getting heartbeat data | Button to start measuring procedure of device | Starting a procedure and end a procedure |