Patient	
Name Birth Date Health Card Number Patient's Visits to the hospital Patient's arrival time to the hospital Patient's medical record Get Name Get Age Get Patient's Visits to the hospital Get Health Card Number Get Medical Record Get Birth Date. Get Patient's arrival time to the hospital Set Patient's arrival time to the hospital	Nurse Doctor Health Professional Visit Medical Record Hospital Database Display Activity Register Patient Activity Update Patient Vital Activity Patient Status Activity Doctor Activity Patient History Activity Patient List Activity

Hospital Database	
Master Patients Pool Patients Grouped By Urgency Load Existing Patients' Data From File Save Patients' Data to File Find Patient in Master Patient Pool by Health Card Number Add Patient to Master Patients Pool Add Patient to Patients Grouped By Urgency Get Master Patients Pool Get Patients Grouped By Urgency Get Patients Ordered By Urgency Add symptoms to a Patient in Database Add Temperature to a Patient in Database Add Blood Pressures to a Patient in Database Add Heart Rates to a Patient in Database Add Prescription Names to a Patient in Database Add Prescription Instructions to a Patient in Database Get Medical History of a Patient in Database by Health Card Number	Health Professional Patient Medical Record

Health Professional Doctor	
Record Prescription	Patient Medical Record Hospital Database

Health Professional	Nurse, Doctor
Hospital Database Load Existing Patients' Data From File Look Up Patient Save Data to File	Patient Medical Record Hospital Database

Health Professional Nurse	
Record Patient Data Update Patient's Vitals Update Patient's Symptoms Update Patient's Seen By Doctor Status Lookup Patient Record From Database	Patient Hospital Database Medical Record Visit

Log in	
Check Validity of Log in information	Main Activity

Medical Record	
Symptoms Temperature Blood Pressure Heart Rate Prescription Names Prescription Instructions Update Symptoms Update Temperature Update Blood Pressure Update Heart Rate Update Prescription Name Update Prescription instruction Get Most Recent Symptoms Get Most Recent Temperature Get Most Recent Blood Pressure Get Most Recent Heart Rate Get Most Recent Prescription Name Get Most Recent Prescription Instruction Get Symptoms History Get Temperature History Get Blood Pressures History Get Heart Rates History Get Prescription Names History Get Prescription Instructions History	Health Professional Nurse Patient Visit

Visit	
Current Visit' s Patient Seen By Doctor Status Current Visit' s Patient's Urgency level Current Visit's time at which Patient was seen by Doctor Set Seen By Doctor Status for Current Visit Set Time Seen By Doctor for Current Visit Calculate Patient's Urgency level for Current Visit Set Patient's Urgency level for Current Visit Get Seen By Doctor Status for Current Visit Get Time Seen By Doctor for Current Visit Get Patient's Urgency level for Current Visit	Health Professional Nurse Doctor Patient Medical Record

Activity	
Main Activity	
File Name containing users' usernames and passwords Get User's User Name Get User's Password Log in Valid User Allow transition to Display Activity Pass user's type to next activity (Nurse/Doctor)	Display Activity Login

Activity	
Display Activity	
Patients' Data File Name Hospital Database (Patients' information) Load Existing Patients' Data and add them to Database Allow Nurses to transition to Register Patient Activity Get Patient's Health Card Number from user Check user's input Find Patient by Health card Number Allow Nurses to transition to Patient List Activity Log Out user Pass user's type to next activity (Nurse/Doctor)	Main Activity Patient Status Activity Patient List Activity Register Patient Activity Hospital Database Patient

Activity	
Register Patient Activity	
Patients' Data File Name Hospital Database (Patients' information) Load Existing Patients' Data and add them to Database Get Patient's name from user Get Patient's Health Card Number from user Get Patient's Date Of Birth From User Check user's input Create New Patient Add New Patient to Database Save New Patient's Data to File Allow transition to Update Patient Vital Activity Pass Patient's Health Card Number to next activity	Display Activity Update Patient Vital Activity Patient Nurse Hospital Database

	Activity
Update Patient Vital Activity	
Patients' Data File Name Hospital Database (Patients' information) Load Existing Patients' Data and add them to Database Get Patient's Health card Number from previous activity Get Patient's current Temperature from user Get Patient's current Blood Pressure from user Get Patient's current Heart Rate from user Get Patient's current Diastolic Pressure from user Get Patient's current Systolic Pressure from user Get Patient's current Symptoms from user Update Patient's Vitals Update Patient's Symptoms Save Patients' data to file Allow transition to Patient Status Activity Pass Patient's Health Card Number to next activity Pass user's Type (Nurse)	Register Patient Activity Patient Status Activity Patient Nurse Hospital Database

	Activity
Patient Status Activity	
Patients' Data File Name Hospital Database (Patients' information) Load Existing Patients' Data and add them to Database Get Patient's Health card Number from previous activity Find the Patient with given Health Card Number Display the Patient's Most recent Medical Record Allow transition of doctors to Doctor Activity Allow transition to Patient History Activity Allow transition to Display Activity Allow Nurses to transition to Update Patient Vital Activity Allow Nurses to update Patient's seen by doctor status on user's input Pass Patient's Health Card Number to next activity Pass user's Type (Nurse/Doctor)	Update Patient Vital Activity Doctor Activity Patient History Activity Display Activity Patient Nurse Hospital Database

Doctor Activity	Activity
Patients' Data File Name Hospital Database (Patients' information) Load Existing Patients' Data and add them to Database Get Patient's Health card Number from previous activity Find the Patient with given Health Card Number Get Patient's current Prescription Name from user Get Patient's current Prescription instruction from user Update the Patient's Prescription Name and instruction Save Data to file Allow transition to Patient Status Activity Pass Patient's Health Card Number to next activity Pass user's Type (Doctor)	Patient Status Activity Health Professional Doctor Patient Hospital Database

Patient History Activity	Activity
Patients' Data File Name Hospital Database (Patients' information) Load Existing Patients' Data and add them to Database Get Patient's Health card Number from previous activity Find the Patient with given Health Card Number in Hospital Database Display the Patient's Medical History Allow transition to Display Activity Pass Patient's Health Card Number to next activity Pass user's Type (Nurse/Doctor)	Patient Status Activity Hospital Database Patient

Patient List Activity	Activity
Patients' Data File Name Hospital Database (Patients' information) Load Existing Patients' Data and add them to Database Gets Patients ordered by urgency from Hospital Database Displays the Name, Birth date, Health Card Number of Patients in urgency List Allow transition to Display Activity Pass user's Type (Nurse)	Display Activity Hospital Database Patient