

App	
- Launch - Access patient text file and initialize app using FileManager	- FileManager
VisitPool	
- Access Visit - Search and sort by Visit data - Keep track of total visits of all patients - Create Visit	- Visit
Visit	
- Created from Arrival Time - Keep track of Patient, can edit - Keep track Vital and Symptoms History - Add newest Vitals at specified time - Report improving or worsening - Keep track if seen by doctor - Record Arrival Time - Update Symptoms at specified time - Report Urgency	- Patient - Vital - Symptom - Timestamp
Vital	
- Keep track of blood pressure, temperature, and heart rate - The time when it's recorded	- BloodPressure - Temperature - HeartRate - Timestamp
HealthCardNumber	
- Stores the HCN - Validates if it's a valid HCN - Can be updated	
Birthdate	
- Keeps track of a birthdate - validates if that birthdate is invalid, i.e. in the future	
Temperature	
- Keep track of temperature - validates if the given value is valid, i.e. negative temperature - can be edited	
abstract	
History VitalHistory, VisitHistory	
- Keeps track of a history of a specific object	
VisitHistory	
- Keeps track of history of Visits	- Visit
Timestamp	
- Keeps track of a date - Able to change the date, validate - Can print it the way desired.	
CreateVisitActivity	
- Given health card number, creates a visit using current time. - Goes back to MainActivity when finished	- VisitPool - MainMenuActivity
MainActivity	
- Populates UserPool on creation - Allows login using a certain combination of username and password. - When logged in successfully, initializes PatientPool and VisitPool, and launches MainMenuActivity - All populating action is done from FileManager	- FileManager - PatientPool - VisitPool - UserPool - MainMenuActivity
MainMenuActivity	
- Nurse as current user: - Allows View Patients by Urgency, launches PatientsByUrgencyActivity * Search Patient by heal card number, if it doesn't exist, then launches CreatePatientActivity, otherwise launches PatientActivity. * Allows add a Visit, launches CreateVisitActivity * Allows save to database, which saves all the changes to the XML via FileManager - Using as Physician * Search Patient by health card number * Save changes to XML via FileManager	- PatientPool - VisitPool - UserPool - CreatePatientActivity - CreateVisitActivity - FileManager - PatientsByUrgencyActivity
VisitActivity	
- Display target Visit's information - Add new Vitals to indicate seen by a doctor. - Display this Visit's Vital History in newest first order - Display the prescription for this Visit's patient. - Nurse: * Can update the vitals, launches CreateVitalActivity	- VisitPool - PatientPool - CreateVitalActivity
PatientPool	
- Create a Patient - Access Patient - Search and sort through the Patient list - Report list of patients not seen by doctor, sorted by urgency	- Patient
Patient	
- Keep track of personal data - Update birthdate and name - Keep track of all Visit of this Patient - Compares to other Patient instances	- Name - HealthCardNumber - Birthdate - VisitHistory
FileManager	
- Load Patient data text file - Load all visits associated with these loaded Patients - Populate PatientPool using the given text file - Populate VisitPool using the XML file - Saves new Patient and new Visit to the XML file - Populates UserPool from password.txt file	- PatientPool - VisitPool - UserPool
Symptom	
- The description - Timestamp	- Timestamp
Name	
- Stores a name - Validates that this name cannot have invalid characters, i.e. commas.	
BloodPressure	
- Keeps track of diastolic pressure - Keeps track of systolic pressure - validate if given value is valid, i.e. given 1000+ bloodpressure - both can be edited	
HeartRate	
- Keep track of heart rate - validate given value is valid, i.e. given negative heart rate - can be edited	
History	
VitalHistory	- Vital
- Keeps track of history of Vitals	
History	
SymptomHistory	- Symptom
- Keeps track of edit history of symptom	
CreatePatientActivity	
- Given Patient information, creates the patient - Goes back to MainMenuActivity when finished	- PatientPool - MainMenuActivity
CreateVitalActivity	
- Is given a visit id when created. - Given heart rate, blood pressure and temperature, creates a new vital update for that visit. - Goes back to VisitActivity when finished.	- VisitPool - Visit - VisitActivity
UserPool	
- Create a User based on given information (username, password, account type) - Remembers the current user - Checks if a given combination of username and password is valid.	- User
User	
- Remembers a combination of username and password - Checks if a given password is valid for this username	
PatientActivity	
- Display target patient information - Display list of this patient's visits, each launches the VisitActivity accordingly. - Nurse: * Can create a new visit, launches CreateVisitActivity - Physician * Can update prescription for a patient who has visited, launches UpdatePrescriptionActivity	- PatientPool - VisitActivity - CreateVisitActivity - UpdatePrescriptionActivity
PatientsByUrgencyActivity	
- Displays the patients by highest urgency first - Each item opens the PatientActivity according to the target patient	- PatientPool - PatientActivity