App

App	
- Launch - Access patient text file and initialize app using FileManager	- FileManager

VisitPool

VisitPool	
- Access Visit - Search and sort by Visit data - Keep track of total visits of all patients - Create Visit	- 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

Vital	
- Keep track of blood pressure, temperature, and heart rate - The time when it's recorded	- BloodPressure - Temperature - HeartRate - Timestamp

HealthCardNumber

HealthCardNumber	
- Stores the HCN - Validates if it's a valid HCN - Can be updated	

Birthdate

Birthdate	
- Keeps track of a birthdate - validates if that birthdate is invalid, i.e. in the future	

Temperature

Temperature	
- Keep track of temperature - validates if the given value is valid, i.e. negative temperature - can be edited	

History (abstract)

abstract History VitalHistory, VisitHistory	
- Keeps track of a history of a specific object	

VisitHistory

History VisitHistory	
- Keeps track of history of Visits	- Visit

Timestamp

Timestamp	
- Keeps track of a date - Able to change the date, validate - Can print it the way desired.	

PatientPool

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

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

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	- PatientPool - VisitPool

Symptom

Symptom	
- The description - Timestamp	- Timestamp

Name

Name	
- Stores a name - Validates that this name cannot have invalid characters, i.e. commas.	

BloodPressure

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

HeartRate	
- Keep track of heart rate - validate given value is valid, i.e. given negative heart rate - can be edited	

VitalHistory

History VitalHistory	
- Keeps track of history of Vitals	- Vital

SymptomHistory

History SymptomHistory	
- Keeps track of edit history of symptom	- Symptom