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| Infoed<K> (interface)                           |  |
| getUsername()<br>getPassword()<br>getUserType() |  |

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| Scannable (interface) extends Infoed<String> |        |
| Scan(String[] data)                          | Infoed |

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| User (abstract class) implements Infoed<String>, Serializable   |   |
| Name (String)<br>Password (String)<br>userType (String) of whether the user is a Nurse or Physician<br>Abstract method looking up a patient and returning the associated Record<br>Returns the user's username<br>Returns the user's password<br>Returns whether the user is a nurse or physician | Infoed<br>Nurse<br>Physician<br>Scannable |

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| Nurse extends User implements Scannable<Nurse>, Serializable   |                     |
| Creates patients<br>Creates patient Record<br>Updates Vital Signs through Record<br>Updates Symptoms through Record<br>Look up Patient's record by health card number<br>Views a list of patients by Urgency | Scannable<br>Record |

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| Physician extends User implements Scannable<Physician>, Serializable                              |        |
| Looks up the patient using a given health card number to get a Record<br>Records the prescription | Record |

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| UserManager<T> extends Scannable<T> implements Serializable  |                                 |
| Has a generic instance of the class being managed<br>Maps a String of the user's username to their user object<br>Reads in the text file passwords.txt and creates those Users<br>Adds new users to the Map<br>Returns the Map | Scannable<br>Nurse<br>Physician |

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| PatientManager implements Serializable  |        |
| Stores and returns a list of Records by urgency level<br>Stores and returns a list of Records by arrival<br>Stores and returns a Map of health card number to Record<br>Reads in the patients in patients.txt and parses each line to create Patients<br>and populates the Maps and Lists | Record |

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| Saves to file the Map of patients by writing to patients.txt using each Object's custom toString()<br>Adds a given record to the Map |  |
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| Record implements Serializable  |                        |
| Stores and returns Patient<br>Stores and returns PatientInfo<br>Stores and sets the prescription<br>Updates vitals by time<br>Updates the Symptoms<br>Calculates the Patient's total urgency points | Patient<br>PatientInfo |

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| Patient                                     |                      |
| Name<br>Date of Birth<br>Health Card Number | PatientInfo<br>Nurse |

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| Birthdate  |         |
| Year<br>Day<br>Month<br>Return whether age is older than 2 | Patient |

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| PatientInfo   |                        |
| Stores and returns a SortedMap of symptoms by time<br>Stores and returns a SortedMap of Vital signs by time<br>Stores the patient arrival time<br>Whether the patient has been seen by the doctor<br>Sets the time the patient was seen by the doctor<br>Adds new VitalSigns to the Map | Patient<br>Vital Signs |

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| VitalSigns   |             |
| Temperature<br>Systolic<br>Diastolic<br>Heart rate<br>Calculates and returns urgency points based on the vital signs | PatientInfo |