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| --- |
| Nurse extends serializable |
| new patient Triage  update patient  remove patient  save patient  load patient  patient seen at  unseen by admitted  unseen by urgency  triage application  local patient |

|  |
| --- |
| Patient extends serializable |
| severity  name  birthday  health card number  temperature  blood pressure  heart rate  symptom  seen  seen at |

|  |
| --- |
| Triage extends serializable |
| add patient Patient  get patient  patients by urgency  patients by admitted |

//Getters, Setters and toString() assumed to be available.

//Remember all method names have to be verbs

//Private variables and methods only used internally are not part of the model and description.

**Nurse**// A class that extends from Object and implements serializable which represents a nurse in a hospital and has access to a triage and methods to change patient status in the triage.

//Responsibilities

**new patient**// Takes a patient number parameter and searches for the patient in the list of patients extracted from patient\_records.txt. Then initializes the local patient with the same data as the found patient, sets its arrival time and removes the patient from the list of potential patients.

**update patient**// Updates the local patient’s vital signs and symptom by appending to the lists in the patient, thus retaining the old data.

**save patient**// Adds a clone of the local patient to triage and clears the local patient in nurse.

**load patient**// Returns the clone of a patient in the triage with the health card number as a parameter

**save triage**// Calls the triages saveToFile() method.

**update patient seen at**// Updates the patient’s seen at variable and sets its seen variable to True

//unseen by admitted// Calls the get patients by admitted of the triage variable and returns a cloned list with patients who have the seen variable as True removed.

//unseen by urgency// Calls the get patients by urgency of the triage variable and returns a cloned list with patients who have the seen variable as True removed.

**triage application**// A triage variable that holds the patients’ data.

**patient**// A local patient that stores a temporary patient variable and has to be saved to preserve the changes.

**patients**// A list populated with potential patients read from patient\_records.txt.

//Collaboration

**Triage**// The Triage class that holds sorted lists of patients.

**Patient**// The patient class that represents a patient with vital signs, symptoms and general information.

**Patient**// A class that extends from Object and implements serializable which represents a patient in a hospital and has variables of his data and can be checked for improvement by getting his severity.

//Responsibilities

//get severity// Returns the severity of the symptoms of the patient which is checked for improvement.

**name**//String

**birthdate**//String

**health card number**//int

**arrival time**//String

**temperature**//An arrayList of doubles

**systolic pressure**//An arrayList of doubles

**diastolic pressure**//An arrayList of doubles

**rate**//An arrayList of doubles

**symptoms**//An arrayList of Strings

**seen**// A boolean variable that tells whether a patient is seen or unseen by a doctor.

**seen at**// An arrayList of Strings that stores the date and time the patient is seen by a doctor.

**Triage**// A class that extends from Object and implements serializable which represents a triage of patient data and reads and writes to a saved .ser file

//Responsibilities

**add patient**// Addes the passed patient to the list of patients or replaces the old patient if it already exists.

**remove patient**// Removes the passed patient from the list of patients.

**get patient**// Gets the patient with the matching patient number that is passed in, null if not found.

**to String array**// returns a string representation of the list of patients for display in android.

//patients by urgency// A list of patients sorted by urgency

//patients by admitted// A list of patients sorted by the time admitted

**save to file**// saves the local list of patients to the serialized text file.

//Collaboration

**Patient**// The Patient class that holds the patient’s data.