

CRC Cards (Phase III) for TriageApp

	Patient	
<ul style="list-style-type: none"> - Name - Date of birth - Health card number - Current ERVisit - Urgency - Age - Add new ERVisit - Close current ERVisit - Get name - Get birth date - Get health card number - Get current ERVisit - Get urgency - Convert to string - Set Current ERVisit Record - Set Urgency 	ERVisit InvalidUserInputException	

	ERVisit	
<ul style="list-style-type: none"> - Arrival time - Time seen by Doctor - VitalSigns records - Prescription records - isClosed - Seen by Doctor - Set ID - Get ID - Set Closed - Get Closed - Get seen by doctor - Set seen by doctor - Get time seen by doctor - Get arrival time - Get VitalSigns records - Add new VitalSigns record - Get Prescription records - Add new Prescription record - Get latest VitalSigns record - Convert to string 	VitalSigns Prescription	

	ERAdmin	
<ul style="list-style-type: none"> - Urgency list - List of Patients by Health Card Number - Patients sent to doctor - Add Patient VitalSigns - Add Patient Prescription - Send to doctor - Close case - Sign in Patient - Add new Patient - Lookup Patient - Get Patient's medical record (formatted String) - Get urgency list - Get List of Patients sent to doctor - Load current Patients from file - Load current Patients from database - Load Patients' current ERVisit Record - Load Urgency List - Load list of Patients sent to doctor 	<ul style="list-style-type: none"> Patient TriageDBAdapter Prescription ERVisit InvalidInputException VitalSigns 	

	Vital Signs	
<ul style="list-style-type: none"> - Systolic blood pressure - Diastolic blood pressure - Temperature - Heart rate - Time stamp - Points - Get systolic blood pressure - Get diastolic blood pressure - Get temperature - Get heart rate - Get time stamp - Get points - Convert to string 	<ul style="list-style-type: none"> InvalidUserInputException 	

	Prescription	
<ul style="list-style-type: none"> - Medication name - Instructions - Get medication name - Get instructions - Convert to string 	<ul style="list-style-type: none"> InvalidUserInputException 	

	<<User>>	Physician, Nurse
- Username - Get username		

	Nurse	User
- Sign in Patient - Add new Patient - Send Patient to doctor - Add Patient VitalSigns	ERAdmin Patient VitalSigns TriageDBAdapter	

	Physician	User
- Add Patient Prescription	ERAdmin Patient Prescription TriageDBAdapter	

	UserManager	
- Get User - Load User information from file	Nurse Physician User TriageDBAdapter	

	InvalidUserInputException	java.lang.Exception
- Construct an Custom Exception object		

	AddPrescriptionActivity	
- ERAdmin - Patient - Physician - Database helper - Get Prescription details from user - Store the new Prescription - Display error message for invalid input	Physician User ERAdmin Patient Prescription TriageDBAdapter PatientActivity InvalidUserInputException EditTextErrorFixed	

	AddVitalSignsActivity	
<ul style="list-style-type: none"> - ERAdmin - Patient - Nurse - Database helper - Get VitalSigns from user - Store VitalSigns - Validation of String parsing - Display error message for invalid input 	<ul style="list-style-type: none"> Nurse User ERAdmin Patient VitalSigns TriageDBAdapter PatientActivity InvalidUserInputException EditTextErrorFixed 	

	AddPatientActivity	
<ul style="list-style-type: none"> - ERAdmin - Nurse - Database helper - Get Patient information from user - Store Patient information - Convert Date from and to String - Validation of String parsing - Display error message for invalid input 	<ul style="list-style-type: none"> Nurse User ERAdmin Patient TriageDBAdapter MainActivity InvalidUserInputException 	

	LoginActivity	
<ul style="list-style-type: none"> - ERAdmin - UserManager - Database helper - Get username and password from user - Validate login information with UserManager - Login user if validation was passed - Load data from database 	<ul style="list-style-type: none"> ERAdmin UserManager User Physician Nurse TriageDBAdapter MainActivity AboutActivity 	

	ShowMedicalRecord	
<ul style="list-style-type: none"> - Database Helper - Display all information recorded about the Patient (ERVisit information, VitalSigns, Prescriptions) 	<ul style="list-style-type: none"> ERAdmin Patient TriageDBAdapter MainActivity PatientActivity 	

	PatientListTabFragment	
<ul style="list-style-type: none"> - Type of list to display (Urgency or Sent to Doctor list of Patients) - ERAdmin - User - Type of user (Nurse or Physician) - Create new instance of PatientListTabFragment - Populate the list with Patient data - Redirect the user to the PatientActivity on list item click. 	ERAdmin User Physician Nurse Patient MainActivity PatientActivity	

	PatientInfoTabFragment	
<ul style="list-style-type: none"> - ERAdmin - Patient - Create new instance of PatientInfoTabFragment - Populate the data fields with Patient information. - Fill in arrival time and urgency fields when the Patient is signed in. - Fill in time seen by doctor field when Patient is sent to the doctor. 	ERAdmin Patient MainActivity PatientActivity	

	VitalsListFragment	
<ul style="list-style-type: none"> - ERAdmin - Patient - Create new instance of VitalsListFragment - Populate the list with VitalSigns data 	ERAdmin Patient PatientActivity	

	PrescriptionListFragment	
<ul style="list-style-type: none"> - ERAdmin - Patient - Create new instance of PrescriptionListFragment - Populate the list with Prescription data 	ERAdmin Patient PatientActivity	

	EditTextErrorFixed	
<ul style="list-style-type: none"> -EditText which addresses issues with the error icon <p>(http://stackoverflow.com/q/13756978/832776) @author Oleg Vaskevich</p>		

	MainActivity	
<ul style="list-style-type: none"> - Tab names - Dialog window titles - ERAdmin - User - Type of User - Display list of Patients by urgency (for Nurses) - Display list of Patients sent to the doctor - Display buttons on the action bar for the user to choose from, based on user role (Physician, Nurse). - For Nurses: Enable the user to add a new patient and sign them in. - Display a dialog window to look up a Patient - Display a dialog window to look up a Patient's medical record 	ERAdmin Patient User Nurse Physician LoginActivity AddPatientActivity ShowMedicalRecord PatientListTabFragment PatientActivity CustomViewPager	

	CustomViewPager	android.support.v4.view.ViewPager
Construct a Custom ViewPager that has the additional functionality of disabling or enabling the swipe action between pages that the View shows.		

	AboutActivity	
<ul style="list-style-type: none"> - Display text information about how to use the App 	LoginActivity	

	PatientActivity	
<ul style="list-style-type: none"> - ERAdmin - User - Database helper - Type of User - Health card number - Tab for VitalSigns display - Tab for Prescriptions display - Display Patient info - Display list of Patient VitalSigns when the Patient is signed in - Display list of Patient Prescriptions for Patient sent to the doctor (for Physicians). - Display buttons on the action bar for the user to 	ERAdmin Patient User Nurse Physician TriageDBAdapter MainActivity PatientInfoTabFragment VitalsListFragment PrescriptionListFragment ShowMedicalRecord CustomViewPager	

choose from, based on user role (Physician, Nurse). - For nurses activate the buttons: Sign in Patient (if Patient is not yet signed in), Sign out (if Patient is signed in), Add Vitals (if Patient signed in), Send to Doctor (if Patient signed in and not yet sent to doctor), View Medical Record. - For physicians activate the buttons: (if Patient signed in and sent to doctor) Sign Out Patient, Add Prescription, View Medical Record. - Update current Patient data in the database when Patient is signed out from the ER - Get Patient's status in the ER (signed in/out) - Get whether Patient has been sent to the doctor - Display different tabs based on User role and Patient's status in the ER (signed in/out)	
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	DBAdapter	TriageDBAdapter
Description for the database tables are included at the end of the document. - DatabaseHelper - SQLiteDatabase - Context - DatabaseHelper Class - Create the database tables - Open a connection to the database - Upgrade the version of the database - Open a connection to the database - Close the connection to the database - Get isOpen	DatabaseHelper	

	TriageDBAdapter	DBAdapter
- Get a table of Patient information, including the health card number, name and date of birth - Get a Patient's current ERVisit information, including the ERVisitID, arrival time, time seen by doctor and the urgency level. - Get all the Prescription record for an ERVisit, including the medication name and the instructions. - Get all the VitalSigns records for anERVisit, including the systolic and diastolic blood pressure, temperature, heart rate and the	DBAdapter	

timestamp. - Get the formatted String representing a Patient's medical record. - Get the list of health card numbers of current Patients ordered by urgency level. - Get a list of Patients sent to the doctor. - Get the role of the User that corresponds to the given username and password. - Create a record in the database for a new User. - Create a record in the database for a new Patient. - Create a record for an ERVisit and gets the ERVisitID for the ERVisit. - Create a record for a VitalSigns record. - Create a record for a Prescription record. - Set the time seen by a doctor for an ERVisit. - Closes an ERVisit by setting the closed parameter to true.	
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Database tables:

	Role	
_ID	roleName	
- The table's unique ID - INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT	- Name of the Role - TEXT NOT NULL UNIQUE	

	Patient		
_ID	healthCardNumber	name	dob
- The table's unique ID - INTEGER NOT NULL PRIMARY KEY	- The Patient's health card number - TEXT NOT NULL	- The Patient's name - TEXT NOT NULL	- The Patient's date of birth - TEXT NOT NULL

AUTOINCREMENT	UNIQUE		
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		ERVisit				
_ID	PatientID	arrivalTime	timeSeenByDoctor	isClosed	urgency	FOREIGN KEY
- The table's unique ID - INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT	- The Patient's ID in the Patient table - INTEGER NOT NULL	- The Patient's arrival time - INTEGER NOT NULL	- The time the Patient is seen by the doctor - INTEGER	- Whether the ERVisit is closed - INTEGER NOT NULL DEFAULT 0	- The urgency level of the Patient - INTEGER NOT NULL DEFAULT 0	- The key that references _ID in the Patient table

			VitalSigns				
_ID	ERVisitID	systolic	diastolic	temperature	heartRate	timestamp	Foreign Key
- The table's unique ID - INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT	- The ERVisitID in the ERVisit table - INTEGER NOT NULL	- The systolic heart rate of the Patient - INTEGER NOT NULL	- The diastolic heart rate of the Patient - INTEGER NOT NULL	- The Patient's body temperature - REAL NOT NULL	- The Patient's heart rate - REAL NOT NULL	- The time the VitalSigns is taken - INTEGER NOT NULL	- The key that references _ID in the ERVisit table

		User			
_ID	username	password	RoleID	Foreign Key	
- The table's unique ID - INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT	- The user's username - TEXT NOT NULL UNIQUE	- The user's password - TEXT NOT NULL	- The ID that corresponds to the user's role. - INTEGER NOT NULL	- The key that references _ID in the Role table	

		Prescription			
_ID	ERVisitID	medication	instructions	Foreign Key	
- The table's unique ID - INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT	- The ERVisitID in the ERVisit table - INTEGER NOT NULL	- The medication name - TEXT NOT NULL	- The instructions that accompany the medication - TEXT NOT NULL	- The key that references _ID in the ERVisit table	