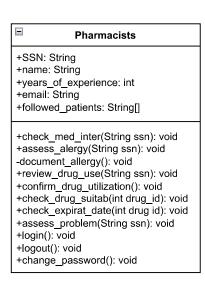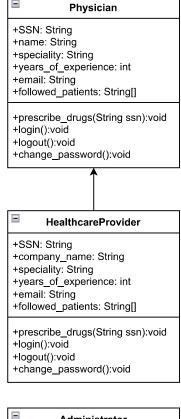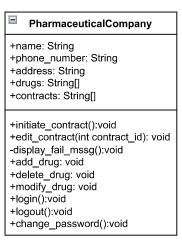For each array, a connection to the db is needed to fetch the needed data

Patient

+SSN: String
+name: String
+address: String
+age: int
+email: String
+primary_physician: String[]
+medication_history: String[]
+prescribed_drugs: String[]
+currently_used_drugs: String[]
+followed_therapy: String[]
+drug_allergies: String[]
+addition_info: String

+comment(String therapy):void
+login():void
+logout():void
+change_password():void

Pharmacists

+SSN: String
+name: String
+years_of_experience: int
+email: String
+followed_patients: String[]

+check_med_inter(String ssn): void
+assess_alergy(String ssn): void
-document_allergy(): void
+review_drug_use(String ssn): void
+confirm_drug_utilization(): void
+check_drug_suitab(int drug_id): void
+check_expirat_date(int drug id): void
+assess_problem(String ssn): void
+login(): void
+logout(): void
+change_password(): void

Physician

+SSN: String
+name: String
+speciality: String
+years_of_experience: int
+email: String
+followed_patients: String[]

+prescribe_drugs(String ssn):void
+login():void
+logout():void
+change_password():void

HealthcareProvider

+SSN: String
+company_name: String
+speciality: String
+years_of_experience: int
+email: String
+followed_patients: String[]

+prescribe_drugs(String ssn):void
+login():void
+logout():void
+change_password():void

Administrator

+name: String

+add_user():void
+remove_user():void
+edit_user_profile():void
+display_user_info():void
+login():void
+logout():void
+change_password():void

PharmaceuticalCompany

+name: String
+phone_number: String
+address: String
+drugs: String[]
+contracts: String[]

+initiate_contract():void
+edit_contract(int contract_id): void
-display_fail_mssg():void
+add_drug: void
+delete_drug: void
+modify_drug: void
+login():void
+logout():void
+change_password():void

Nurse

+SSN: String
+name: String
+date_of_birth: Date
+years_of_experience: int
+email: String
+followed_patients: String[]

+prescribe_drugs(String ssn):void
+login():void
+logout():void
+change_password():void
+label_doc_drug_use():void
+assess_problem(String ssn):void
+check_drug_suitability:(String ssn): void
-update_physician(String problem): void
+check_expiration(int drug_id): void

Protected classes (Implement inheritance to harness code reuse:
1. UpdatePhysician: Pharmacist, Nurse
2. CheckDrugSuitability: Pharmacist, Nurse
3. AssessProblem: Pharmacist, Nurse
4. CheckExpirationDate: Pharmacist, Nurse
5. Login: All users
6. Prescribe drug: Physician, Nurse