

CRC Model

Entities

Clinic

Responsibilities

- **supply**
- **clinicId**
- `getClinicId`

Collaborators

- Bookable Clinic
- Time Period
- Vaccination Log
- Vaccine Supply

Bookable Clinic (Subclass of Clinic)

Responsibilities

- **appointmentList**
- addAppointment
- logPastAppointments

Collaborators

- Clinics
- Appointment

Time Period

Responsibilities

- **datetime (tracks date and time)**
- **availabilities**
- **bookedSlots**
- addAvailabilities
- removeAvailability
- getAvailabilities
-

Collaborators

- Clinics
- Appointment

Client

Responsibilities

- **name**
- **healthcareNumber**
- **hasAppointment**
- get name
- get healthcareNumber
- get hasAppointment
- approveAppointment

Collaborators

- Appointment

Vaccine Supply

Responsibilities

- **batchList**
- isEmpty
- getBatchList
- getAvalibleVaccines
- toString

Collaborators

- Clinics
- Vaccine Batch

Vaccine Batch

Responsibilities

- **expiry**
- **Brand**
- **Quantity**
- **id**
- **reserve**
- isExpired
- getExpiry
- getAvailable
- getId
- getBrand

Collaborators

- Vaccine Supply

Appointment

Responsibilities

- **client**
- **datetime**
- **vaccineBrand**

Collaborators

- Client
- Bookable Clinic
- Time Period

Vaccination Log

Responsibilities

- **log**
- addToLog

Collaborators

- Clinics

Use Cases

AppointmentBooking

Responsibilities

- Allow the user to book a vaccine appointment

Collaborators

- Clinic

AppointmentCancellation

Responsibilities

- Allow the user to cancel their vaccine appointment

Collaborators

- Clinic

AppointmentViewing

Responsibilities

- Allow the user to view their vaccine appointment

Collaborators

- Clinic

ClientBooking

Responsibilities

- Manages the client requests.

Collaborators

- AppointmentViewing
- AppointmentBooking
- AppointmentCancellation

ClinicManagement

Responsibilities

- **clinics**
- getClinicIds
- getClinicById
- addBatch
- getClinics

Collaborators

- ClinicDatabase
- AddBatch
- SetTimePeriodAvailabilities

SetTimePeriodAvailabilities

Responsibilities

- Set the available vaccination appointments based on the number of employees available and vaccine supply.
- Validates the vaccine supply to check if enough non-expired vaccines are available.

Collaborators

- Clinic

BatchAdding

Responsibilities

- **clinic**
- **batch**
- addBatch

Collaborators

- Clinic

Controllers

VaccineManagmentSystem

Responsibilities

- **ClinincManagment**
- getClinic
- getClinicIds
- getClinicManager
- addBatch
- getClientBooker

Collaborators

- Client
- Clinics

Frameworks and Drivers

Command Line

Responsibilities

- **commandLinePrompt**
- `getValue`

Take userInput and passes it to VaccineBookingSystem where it is parsed and get result to be displayed

Collaborators

- Vaccine Booking System

https://miro.com/app/board/o9J_lr-wuew=/