

CRC Model

Client Booking

Use cases - Application Business Rules Layer

AppointmentBooking

Responsibilities

- **client**
- **clinic**
- **timePeriod**
- **vaccineBrand**
- **appointmentId**
- isTimeslotAvailable
- assignVaccineDose
- hasUniqueId
- createAppointment

Collaborators

- UseCaseManager

AppointmentCancellation

Responsibilities

- **appointmentId**
- **clinic**
- `deleteAppointment`

Collaborators

- `UseCaseManager`

AppointmentViewing

Responsibilities

- **appointmentID**
- **clinic**
- appointmentDetails
- getBookedAppointmentString

Collaborators

- UseCaseManager

RecordAdding

Responsibilities

- **clinic**
- logAppointment
- logWalkIn
- logByDateTime
- logByDate

Collaborators

- UseCaseManager

Client Managements

Use cases - Application Business Rules Layer

BatchAdding

Responsibilities

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

Collaborators

- UseCaseManager

SetTimePeriod

Responsibilities

- **clinic**
- setEmployees
- addTimePeriod
- removeTimePeriod
- addMultipleTimePeriods

Collaborators

- UseCaseManager

Database Integration

Data Access - Framework and Drivers

Data Retrieval

Responsibilities



Collaborators



Data Storing

Responsibilities



Collaborators



Database Appointment

Responsibilities



Collaborators



Database Batch Adding

Responsibilities

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Collaborators

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Database Client

Responsibilities



Collaborators



Database clinic

Responsibilities



Collaborators



Database Connectivity Manager

Responsibilities

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Collaborators

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Database Retrieval

Responsibilities



Collaborators



Database Storing

Responsibilities



Collaborators



Database Table

Responsibilities



Collaborators



Database Time Periods

Responsibilities



Collaborators



Example Retrieval

Responsibilities



Collaborators



Drivers

Drivers - Framework and Drivers

Command Line

Responsibilities

- **commandLinePrompt**
- **managementSystem**
- runCommands
- createAcceptableCommandsString
- getClinicId
- Add batch/TimePeriod/TimePeriods/
- SetEmployees
- removeTimePeriod
- (book/cancel/view)Appointment

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

Collaborators

- DataValidation
- Main

DataValidation

Responsibilities

- getCommand
- getValue
- tryParseInt
- isNonPastDate
- isNonPastDateTime

Collaborators

- CommandLine
- DataValidation

Entities

Entities - Enterprise Business Rules Layer

Appointment

Responsibilities

- **appointmentId**
- **client**
- **timePeriod**
- **vaccineBrand**
- **clientVaccinationBatch**
- **appointmentTimePassed**

Collaborators

- AppointmentBooking
- AppointmentCancellation
- AppointmentViewing
- BookableClinic
- ClinicDecorator

Bookable Clinic (extends ClinicDecorator)

Responsibilities

- **appointments**
- addAppointment
- getAppointmentRecord
- removeAppointment
- removeAppointmentById
- logPastAppointments
- getAppointmentIds

Collaborators

- UseCaseManager

Client

Responsibilities

- **name**
- **healthcareNumber**
- **hasAppointment**
- approveAppointment
- disapproveAppointment

Collaborators

- AppointmentBooking
- UseCaseManager
- Appointment
- Clinic
- ClinicDecorator
- ServiceLocation
- VaccinationLog

Clinic (implements ServiceLocation)

Responsibilities

- **clinicId**
- **Supply**
- **log**
- **timePeriods**
- **Shifts**
- **location**
- logContainsId
- overriding ServiceLocation

Collaborators

- UseCaseManager

ClinicDecorator - abstract class (implements ServiceLocation)

Responsibilities

- **decoratedClinic**
- ServiceLocation implementation

Collaborators

- AppointmentBooking
- AppointmentCancellation
- AppointmentViewing
- UseClinicManager
- BookableClinic

ServiceLocation - Interface

Responsibilities

- supplyContainBatchId
- addBatch
- logPastVaccinations
- setShifts
- Add/remove TimePeriod
- getServiceLocation
- getShiftForDate
- shiftAvailable
- containsShift
- checkTimePeriod
- Get timePeriods/ VaccinationLog/
Location/ Supply/ SupplyObj

Collaborators

- BatchAdding
- SetTimePeriod
- UseCaseManager
- BookableClinic
- Clinic
- ClinicDecorator

Time Period

Responsibilities

- **datetime**
- **availableSlots**
- **bookedSlots**
- findAndReservedSlot
- addAvailabilities

Collaborators

- AppointmentBooking
- SetTimePeriod
- UseCaseManager
- Appointment
- Clinic
- ClinicDecorator
- ServiceLocation

User

Responsibilities



Collaborators



Vaccination Log

Responsibilities

- **log**
- **appointmentBasedPrefix**
- **nonAppointmentBasedPrefix**
- addToLog
- getVaccinationRecord
- getClientByVaccinationId
- getTimeByVaccinationId
- getVaccinationBrandByVaccinationId
- getRecordString
- containsId
- vaccinationRecord

Collaborators

- Clinic
- ClinicDecorator
- ServiceLocation

Vaccine Batch

Responsibilities

- **brand**
- **quantitiy**
- **expiry**
- **id**
- **reserve**
- isExpired
- setReserve
- changeReserve
- getAvailable

Collaborators

- AppointmentBooking
- BatchAdding
- UseCaseManager
- Appointment
- Clinic
- ClinicDecorator
- ServiceLocation
- VaccineSupply

Vaccine Supply

Responsibilities

- **batchList**
- `getAvailbleVaccines`
- `isEmpty`
- `toString`

Collaborators

- `Clinic`
- `ClinicDecorator`
- `ServiceLocation`

Managers

ManagamentSystem - interace

Responsibilities

- setEmployees
- addTimePeriod
- removeTimePeriod
- addMultipleTlmePeriods
- addBatch
- getClinicIds
- getBookableClinicIds
- getSupplyByClinic
- bookAppointment
- cancelAppointment
- viewlAppointment

Collaborators

- VaccineManagmentSystem
- CommandLine
- Main

Controllers

UseCaseManager (implements UseCaseManagerInterface)

Responsibilities

- **clinics**
- containsClinicWithId
- createSetTimePeriod
- getClinicById
- overriding UseCaseManagerInterface

Collaborators

- Main

Retriever

Responsibilities



Collaborators



Storer

Responsibilities



Collaborators



UseCaseManagerInterface - interace

Responsibilities

- getClinicIds
- getBookableClinicIds
- AddClinic
- addBookableClinic
- setEmployees
- addTimePeriod
- removeTimePeriod
- addMultipleTimePeriods
- addBatch
- getSupplyStringByClinic
- bookAppointment
- cancelAppointment
- viewAppointment

Collaborators

- UseCaseManager
- VaccineManagmentSystem
- Main

VaccineManagamentSystem (implements ManagementSystem)

Responsibilities

- **useCaseManagerInterface**
- Implementing ManagementSystem

Collaborators

- Client
- Clinics

Vaccine Management System

Responsibilities



Collaborators



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