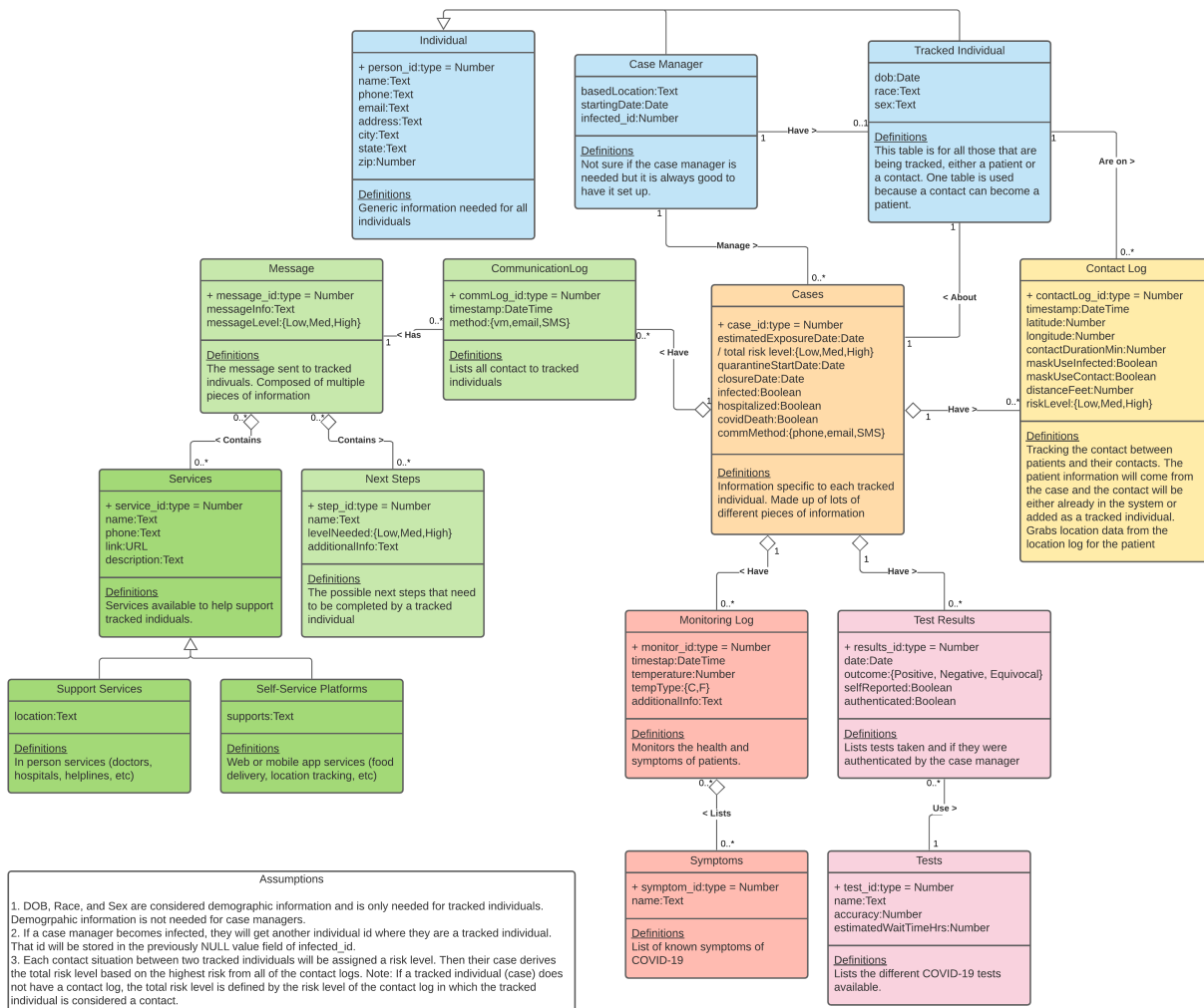


# CS5200 Fall 2020: Practicum 1

Chandra Davis, Evan Douglass

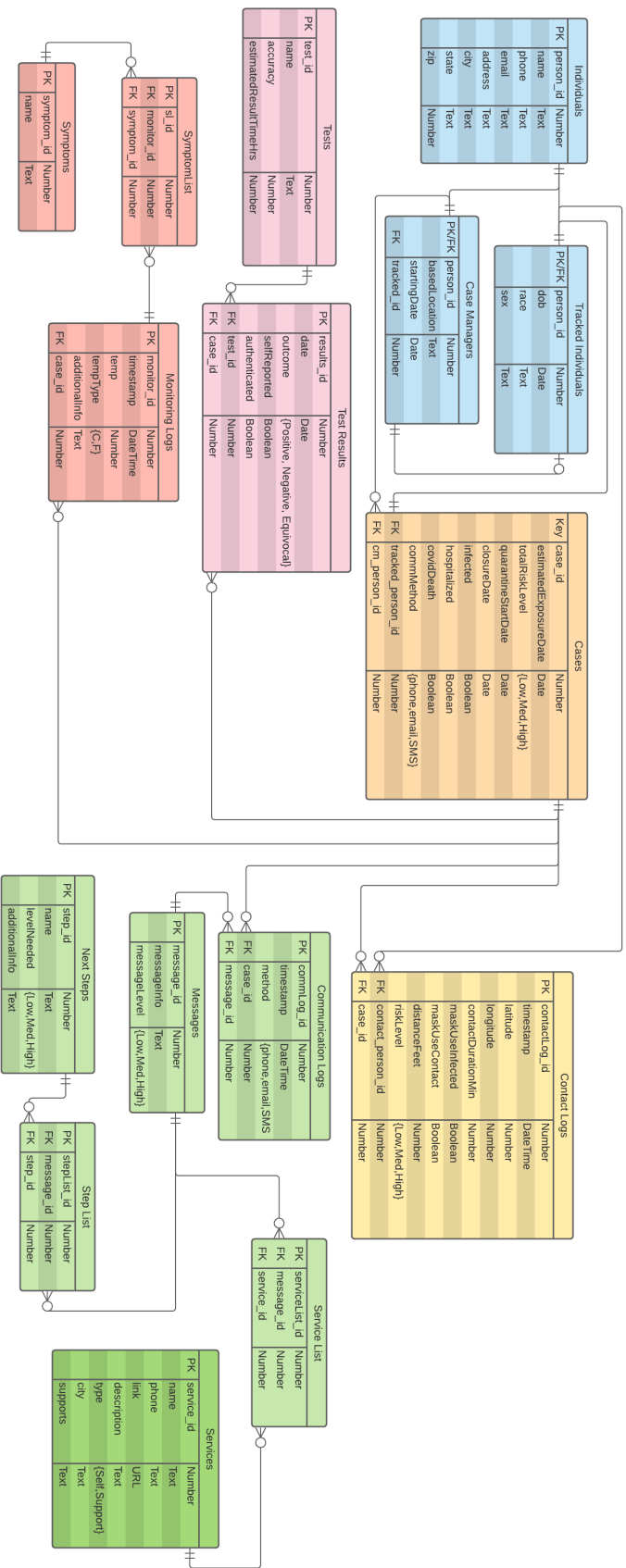
## Conceptual Model: UML

[Click here to view the conceptual model in Lucid Chart.](#)



## Logical Model: ERD

[Click here to view the logical model in Lucid Chart.](#)



## Schema

[Click here](#) to view the schema in Google Docs.

Individuals(person\_id: Number, name: Text, phone: Text, email: Text, address: Text, city: Text, state: Text, zip: Number)

TrackedIndividuals(person\_id: Number, dob: Date, race: Text, sex: Text)

CaseManagers(person\_id: Number, basedCity: Text, basedState: Text, startingDate: Date, *infected\_id*: Number)

Tests(test\_id: Number, name: Text, accuracy: Number, estimatedResultTimeHrs: Number)

TestResults(results\_id: Number, date: Date, outcome: {Positive, Negative, Equivocal}, selfReported: Boolean, authenticated: Boolean, *test\_id*: Number, *case\_id*: Number)

MonitoringLogs(monitor\_id: Number, timestamp: DateTime, temp: Number, tempType: {C, F}, additionalInfo: Text, *case\_id*: Number)

SymptomList(sl\_id: Number, *monitor\_id*: Number, *symptom\_id*: Number)

Symptoms(symptom\_id: Number, name: Text)

Cases(case\_id: Number, estimatedExposureDate: Date, totalRiskLevel: {Low, Med, High}, quarantineStartDate: Date, closureDate: Date, infected: Boolean, hospitalized: Boolean, covidDeath: Boolean, commMethod: {phone, email, SMS}, *cm\_person\_id*: Number, *infected\_person\_id*: Number)

ContactLogs(contactLog\_id: Number, timestamp: DateTime, latitude: Number, longitude: Number, contactDurationMin: Number, maskUseInfected: Boolean, maskUseContact: Boolean, distanceFeet: Number, riskLevel: {Low, Med, High}, *contact\_person\_id*: Number, *case\_id*: Number)

CommunicationLogs(commLog\_id: Number, timestamp: DateTime, method: {phone, email, SMS}, *case\_id*: Number, *message\_id*: Number)

Messages(message\_id: Number, messageLevel: {Low, Med, High}, messageInfo: Text)

StepList(stepList\_id: Number, *message\_id*: Number, *step\_id*: Number)

NextSteps(step\_id: Number, name: Text, levelNeeded: {Low, Med, High}, additionalInfo: Text)

ServiceList(serviceList\_id: Number, *message\_id*: Number, *service\_id*: Number)

Services(service\_id: Number, name: Text, phone: Text, link: Text, description: Text, type: {Self, Support}, city: Text, supports: Text)

Creating Database Tables

Populating The Database

Queries