# Analysis & (Partially Done) Pseudocode

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| --- |
| Person (Super class) |
| -name |
| -emailAddr |
| -phoneNum |
| -city  -state |
| <<constructor>> Person() |
| <<constructor>>Person(String, String, int,String) |
| +setName(String) |
| +getName(): String |
| +setEmail(String) |
| +getEmail(): String |
| +setPhoneNum(String) |
| +getPhoneNum(): String |
| +setCity(String) |
| +getCity(): String  +setState(String)  +getState(String)  +toString(): String |

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| --- |
| Patient (sub class of Person) |
| - contactList |
| - symptomList  - placeList |
| <<constructor>> Patient() |
| +setContactList(ArrayList<Contact>) |
| +getContactList(): ArrayList<Contact>  +addContact(Contact) |
| +setSymptomList(ArrayList<Symptom>)  -getSymptomList(): ArrayList<Symptom>  +addSymptom<Symptom>  +setPlaceList(ArrayList<Place>)  +getPlaceList(): ArrayList<Place>  +addPlace(Place) |

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| --- |
| Contact (sub class of Person) |
| -contactPlaces |
| -dateContacted |
| <<constructor>> Contact() |
| +setPlaces(ArrayList<Place>)  +getPlaces() : ArrayList<Place>  +addPlace(Place)  +setDateContacted(String)  +getDateContacted(): String |

|  |
| --- |
| Symptom |
| -name |
| -numOfDays |
| -description |
| +setName(String) |
| +getName(): String |
| +setNumOfDays(int) |
| +getNumOfDays(): int |
| +setDescription(String) |
| +getDescription(): String |

|  |
| --- |
| Place |
| -name |
| -city |
| -state |
| +setName(String)  +getName(): String  +setCity(String)  +getCity(): String  +setState(String)  +getState() :String |

|  |  |  |
| --- | --- | --- |
| Inputs | Process | Outputs |
|  |  | **One**, Display Report Title |
| **Four**, user enter patient’s name | **Five**, get patient’s name and assign to value | **Two**, Prompt for patient’s information |
|  | **Seven**, get patient’s number and assign to value | **Three**, Prompt for patient’s name |
| **Six**, user enter patient’s number | **Ten**, get patient’s email and assign to value | **Five**, Prompt for patient’s phone number |
| **Nine**, user enter patient’s email | **Thirteen**, get patient’s city and assign to value | **Eight**, Prompt for patient’s email |
| **Twelve**, user enter patient’s city | **Sixteen**, get patient’s city and assign to state | **Eleven**, Prompt for patient’s city |
| **Fifteen**, user enter patient’s state |  | **Fourteen**, Prompt for patient’s state |

Initialize patientName = “”

Initialize patientPhone = “”

Initialize patientEmail = “”

Initialize patientCity = ‘”

Initialize patientState = “”

Initialize hasContacts = false;

Declare patient object

Declare Symptom object

Declare Contact object

Declare Place object

Display report Title

Display prompt Patient information

Display prompt for patient’s name

Set patient’s patientName to inputted name

Display prompt for patient’s phone number

Set patientPhone to phone number inputted by user

Display prompt for patient’s email

Set patientEmail to email inputted by user

Display prompt for patient’s city

Set patientCity to city inputted by user

Display prompt for patient’s state

Set patientState to state inputted by user

Create patient object and assign patientName, PatientPhone, PatientEmail

PatientCity, & PatientState to the instance variables

Display multiple prompts for Symptoms

Get response

IF response = ‘Y’

THEN

Create a Symptom object

Prompt for the number of days

Get the number of days

Prompt for additional details

Get additional details

Add symptom name, number of days, additional details to the appropriate instance

Variables of a symptom class

Add symptom object to patient symptom list

END

Prompt user asking if patient has been in contact with anyone

IF user said “yes”

THEN

hasContacts = true

WHILE ( hasContacts)

ENDWHILE

ENDIF