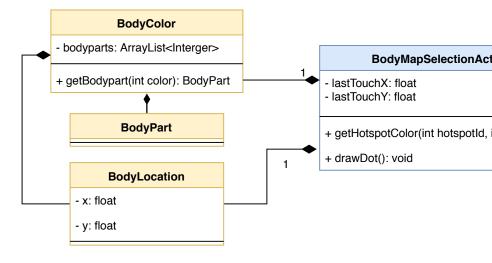| **PatientUserActivity** |
| --- |
| - nameText: TextView |
| - userIdText: TextView |

| **L** |
| --- |
| - userNameEc |
| - userName: S |
| - signInButton |

**AccountCreationActivity**

+ getPassword(type): String

+ getAllXML(): void

**oginActivity**

ditText: EditText
String
: Button

## BodyColor

- bodyparts: ArrayList<Interger>

+ getBodypart(int color): BodyPart

## BodyPart

## BodyLocation

- x: float

- y: float

## BodyMapSelectionAct

- lastTouchX: float
- lastTouchY: float

+ getHotspotColor(int hotspotId, i

+ drawDot(): void

1

1

- mContext: Context

- layout: int

+ refreshAdapter(List<

+ getView(int position

- birthdayText: TextView

- emailInput: EditText

- phoneInput: EditText

- fillOutInfo(): void

- save(): void

- signInButton...
- createAccou...

+ onCreateAc...
+ getAllXML()...

**U...**

+

+ login(userid,pas...
+ create_patient(p...
+ create_CarePro...
+ getAllUser(): Ar...
+ geAllCareProvid...
+ getAllPatient():...
+ modifyPatient(P...

Users can
view a map
that displays
all the
geolocations
marked on
various records
for a problem.

**PatientProblemDetailActivity**

- problem: Problem

- pId: String

- titleInput: EditText

- descriptionInput: EditText

- loadProblem(): void

- fillOutDetail(): void

- saveProblem(): void

**PatientViewRequestActivity**

- ArrayList<CareProvider> careProvideCon...

1

**PatientAddProblemActivity**

- saveProblem(): void

**Problem**

- pid: int

- title: String

- created: Date

-records: ArrayList<Record>

+ getRecords(): ArrayList<Record>

+ setRecords(ArrayList<Record>): void

+ deleteRecord(int index): void

+ getPids(): int

+ setPids(int): void

+ getTitle(): String

+ setTitle(String): void

+ getCreated(): Date

+ setCreated(Date): void

**...ivity**

int x, int y): int

**ProblemController**

+

+ create_problem(Problem p)
+ search_problem(String query)
+ Delete Problem(int id)

-0..*          1

**PatientAllProblemActivity**

- problems: ArrayList<Problem>

# onResume(): void

- loadProblems(): void

- deleteProblems(int i): void

1

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**ProblemAdapter**

<Problem> problems): void

, View convertView, ViewGroup viewGroup):View

Extends

1     Records belong to a pro...

0..*

Records belong to a pro...

**Photo**

- path: String
- width: int
- height: int

-0..*          1

**Record**

- rid: int
- title: String

- description: String

- photos: ArrayList<Photo>

- createdDate: Date
- pid :int

Records can have one
or more photos

```
: Button
ntTextView: TextView
```

```
count():void
: void
```

```
+ clearText(): void
```

### User_Controller

```
ssword): Boolean
patient): Boolean
ovider(careProvider): Boolean
rayList<User>
der(): ArrayList<CareProvider>
ArrayList<Patient>
Patient patient): Boolean
```

user controller controls various user tasks

—1——————————0..*—

### User

- userId: String
- password: String
- fullname: String
- phoneNum: String
- email: String
- birthday: Date
- gender: Char

+ verifyLogin(String): Boolean

1

1

0..*

```
structor();
```

————————— Extends —————

Extends

Patients and Care providers are both users with different attributes and methods

### Patient

- problemsIds: ArrayList<Problem>
- careProviderUserIds: ArrayList<String>
- requests : ArrayList<Request>

+ getProblemIds(): ArrayList<Problem>

+ getProblemIdByIndex(int index): String

+ deleteProblemId(int index): void

+ getCareProviderUserIdByIndex(int index): String

+ addCareProviders(String): void

+ getRequestById(int index): Request

+ addRequestById(Request request): void

+ deleteRequest(int index): void

### CareProvider

- patientsUserIds :ArrayList<String>

+ getPatientUserIdByIndex(int index): String

+ removePatrientUserId(String patientUId): void

Patient class is for a Patient user

### PatientRecordDetailActivity

- problem: Problem
- record: Record
- place: Place
- imageAdapter: ImageAdapter
- photoBitmapCollection: ArrayList<Bitmap>

- addPhoto(Bitmap imageBitmap): void
- loadRecord(): void
- fillOutDetail(): void
- saveRecord(): void

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Patients get requests from doctors

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### Request

- senderUserId: String
- message: String

+ getSenderUserId(): String

+ setSenderUserId(String): void

+ getMessage(): String

+ setMessage(String): void

oblem

oblem

### PatientAddRecordActivity

- place: Place
- photoBitmapCollection: ArrayList<Bitmap>

- dispatchTakePictureIntent(): void
- addPhoto(Bitmap imageBitmap): void
#onActivityResult(int requestCode, int resultCode, Int entdata): void

### RecordController

## Comment

- content: String
- created: Date

---

+ getRecord(Record): String
+ postRecord(String):void

0...*—————1

Users can
view a
slideshow
of all images
for a particular
problem.

- pId :int
- isPatientRecord: Boolean
- comments: ArrayList<Comment>

---

+ getPhotoById(int): Photo

Extends

Extends

subclass of Record

## PatientRecord

- geolocation: Location
- bodyLocation: int

## CareProviderReco

- mContex
- layout: in

---

+ refreshA

+ getView

+create_Record(Record r):void
+search_Record(String query):void
+Delete_Record(int id):void

## ImageAdapter

- mContext: Context

- photoBitmapCollection: ArrayList<Bitmap>

---

+ addPhoto(Bitmap imageBitmap): void

+ getCount(): int

+ getItem(int position): Object

+ getItemId(int position): long

+ getView(int position,View convertView, ViewGroup parent): View

## PatientAllRecordActivity

- problems: ArrayList<Problem>

ord

# onResume(): void

- loadRecords(): void

- deleteRecords(int i): void

## RecordAdapter

t: Context

t

Adapter(List<Problem> problems): void

(int position, View convertView, ViewGroup viewGroup):View