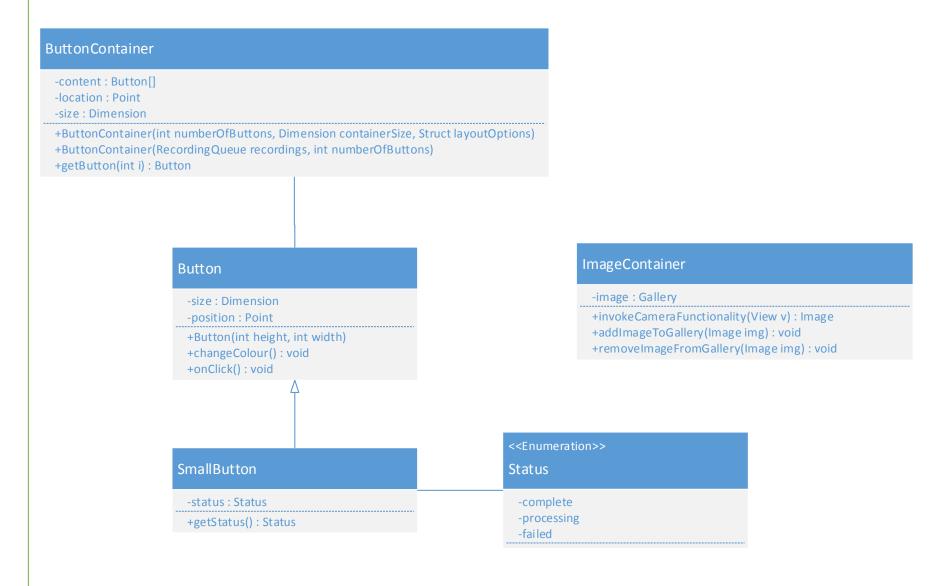
# Activity\_Login Activity\_MainMenu -username : TextField -password : TextField - smallButtons : ButtonContainer - largeButtons : ButtonContainer -login: Button -register : Button -recordingQueue : RecordingsQueue -workOffline : Button +toRecordings(View v) : void +toPlantSpecies(View v) : void +toRegisterActivity(View v) : void +toEditRecordings(View v) : void +tomainMenu(View v) : void +getPageData(View v) : void +logout(View v) : void +checkLoginDetails(): boolean Activity\_Register Activity\_Settings -username : TextField -GPS: Slider -password : TextField -sendPrompt : Slider -confirmPassword : TextField -WiFi: RadioButtons -creatAccount : Button -savePhotoToDevice : Slider +createAccount(View v) : void +getData(View v) : void +toMainMenu(View v) : void +updateSessionSettings() : boolean +getPageData(View v) : void +toMainMenu(View v) : void +checkIfAccountExists(): boolean +checkIfPasswordsMatch(): boolean Activity\_PlantSpecies Activity\_Recordings -commonName : TextField -imageContainer : ImageContainer -latinName : TextField -name : TextField -addSpecies : Button -reserve : TextField +getData(View v) : void -plant : TextField +toMainMenu(View v) : void -longitude : TextField -latitude : TextField -notes : TextArea +toPlantSpecies(View v) : void +toMainMenu(View v) : void +getPageData(View v) : void +getData(View v) : void +getDate(): +constructRecording(): Recording Activity\_EditRecordings -record : Recording -edit : Button -delete : Button -reset : Button +editRecording(Recording r): void +fillList() : String[] -getRecording(String uid) : Recording



#### data\_processing

#### FormatChecker

-validAbundance : char[]
-validLatitudeMax : int
-validLatitudeMin : int
-validLongitudeMax : int
-validLongitudeMin : int
-validPhoneLength : int

+checkAbundance(String abundance) : char +checkPhoneNumber(String number) : int

+checkLatitude(int latitude) : int +checkLongitude(int longitude) : int

# LogonChecker

+checkLogin(String uid, String password): boolean

# ConnectivityChecker

+checkWifi(): boolean +checkGPS(): boolean

# DB\_Connection

- +getData(String sqlStatment) : Object[]
- +uploadRecordingsInQueue(RecordingQueue recordings): boolean
- +uploadNewSpecies(Species newSpecies): boolean
- +downloadSpecies(): boolean

# DB\_Local

- -species : Object[]
- -reserves : Object[]
- +getSpecies() : Object[]
- +getCertainSpecies(String sqlStatement) : Object[]

# DB\_Sync

-memberName

# ExistingAccountException

+ExistingAccountException(String error)

# IncorrrectFormatException

+IncorrectFormatException(String error)

# LogonException

+LogonException(String error)

# DatabaseConnectionException

+DatabaseConnectionException(String error)

# UploadFailureException

+UploadFailureException(String error)

# NoSearchResultsException

+NoSearchResultsException(String error)

#### utilities

# Settings

- -useGPS : boolean
- -promptToSend : boolean
- -sendOnWiFiOnly : boolean
- -savePhotoToDevice : boolean
- +setUseGPS(boolean gps): void
- +setPromptToSend(boolean pts) : void
- +setSendOnWifi(boolean sow): void
- +setSPTD(boolean sptd) : void
- +getGPS():boolean
- +getPTS(): boolean
- +getSOW(): boolean
- +getSPTD(): boolean

#### DataStore $\hbox{-currentUser}: Author$ RecordingQueue -all Recordings : Recording Queue -currentSettings : Settings -recordings : Recording[] +getCurrentUser(): Author +addRecording(Recording r): void +getAllRecordings(): RecordingQueue +removeRecording(Recording r):void +getCurrentSettings(): Settings +setCurrentUser(Author a): void +setAllRecordings(RecordingQueue rq): void +setCurrentSettings(Settings s): void Record -species : string -abundance : char -longitude : int -latitude : int -reserve: Reserve -comment : String Recording -imageSpecies : Image -imageScene : Image -author : Author Record(String species, char abundance, int long, int lat, Image iSpecies, Image iScene) -record : Record +getSpecies() : String -status : Status +getAbundance() : char +Recording(Author a, Record r, Status s) +getLongitude() : int +getAuthor(): Author +getLatitude() : int +getRecord() : Record +getReserve(): String +getStatus(): Status +getComment() : String +setAuthor(Author a): void +getImageSpecies(): Image +setRecording(Recording r): void +getImageScene(): Image +setStatus(Status s) : void +setSpecies(String s): void +setAbundance(char a): void +setLongitude(int long): void +setLatitude(int lat): void +setReserve(Reserve r): void +setComment(String c): void +setImageSpecies(Image iSpecies): void +setImageScene(Image iScene): void Author -name : String -phone : int -email : String -uid : String +Author(String name, int phone, String email) Reserve +getName(): String AbundanceEnum +getPhone() : String -name : String +getEmail(): String -D -location : String +getUid() : String -A -description : String +setName(String n) : void -F +getName() : String +setPhone(int p) : void -0 +getLocation(): String +setEmail(String e) : void +getDescription(): String +setUid(String u) : void +setName(String n) : void +setLocation(String s) : void +setDescription(String s) : void

# LocationFilter -data:Object[] +getData():Object[] +filterData(Object[] dataToFilter):Object[]

-data : Object[]

+getData() : Object[]

+filterData(Object[] dataToFilter) : Object[]