

Use Case: Start Application

Application

splashScreen: Activity
applicationName: string
applicationLogo: image
userIsLoggedIn: boolean

displaySplashScreen()
login()
viewMainScreen()

Use Case: Login

User

username: string
password: string

LoginScreen

username: string
password: string

createAccount()
login()

Application

userIsLoggedIn: boolean
currentUserName: string

viewMainScreen()

ApplicationServer

username: string
password: string
validateUser()

Use Case: Create Account

CreateAccountScreen

username: string
email: string
firstName: string
lastName: string
password: string
errorMessageField: string

comparePasswords()
createAccount()

User

username: string
email: string
firstName: string
lastName: string
password: string

ApplicationServer

ensureEmailDoesNotExist()
ensureUserNameDoesNotExist()
createNewUser()

Use Case: View Main Screen

Application

userIsLoggedIn: Boolean

MainScreen

currentExcursion: Excursion

defaultExcursion: Excursion

currentMap: Map

currentLocation: GPSLocation

activeButtons: Button[]

validateCurrentGPSLocationOnMap()

loadExcursion()

startRecordingRoute()

addObservation()

stopRecordingRoute()

editExcursion()

saveExcursion()

logout()

exit()

viewObservation()

Excursion

route: GPS[]

observations: Observation[]

Use Case: Load Excursion

MainScreen

currentExcursion: Excursion

currentExcursionHasChanged: Boolean

saveCurrentExcursion()

displayCurrentExcursion()

LoadExcursionScreen

availableExcursions: ExcursionInfo[]

cancel()

downloadExcursion()

setCurrentExcursion()

Application

excursionList: Excursion[]

ApplicationServer

excursionList: Excursion[]

Use Case: Start Recording Route

MainScreen

currentExcursion: Excursion
routeRecordingInterval: int
currentPosition: GPSLocation
currentMap: Map
isRecordingRoute: Boolean

startRecordRoute()
updateRouteOnMap()

Excursion

route: GPSLocation[]

Use Case: View Observation

ViewObservationScreen

title: string
description: string
GPSLocation: GPSLocation

loadFields()
editObservation()
back()

MainScreen

currentExcursion: Excursion

Observation

title: String
description: String
GPSLocation: GPSLocation

Use Case: Add Observation

AddObservationScreen

title: String
description: String
GPSLocation: GPSLocation

getCurrentGPSLocation()
getDateAndTime()
saveObservation()
cancel()

MainScreen

currentMap: Map
currentExcursion: Excursion

updateMap()

Observation

title: string
description: string
GPSLocation: GPSLocation
date: Date
time: Time

Use Case: Edit Observation

EditObservationScreen

title: String
description: String
GPSLocation: GPSLocation

loadFields()
saveObservationChanges()
deleteObservation()
cancel()

Application

currentExcursion: Excursion

Use Case: Stop Recording Route

MainScreen

isRecordingRoute: Boolean

stopRecordingRoute()

Use Case: Edit Excursion

EditExcursionScreen

excursionName: String

excursionDescription: String

walkableExcursion: Boolean

publicExcursion: Boolean

observationList: (title, edit button)

loadFields()

checkCurrentExcursionName ()

saveExcursion()

editObservation()

cancel()

Use Case: Log Out

Application

currentUser: string

MainScreen

displayLogOutConfirmationDialogBox()

logOut()

login()

Use Case: Save Excursion

MainScreen

currentExcursion: Excursion

defaultExcursion: Excursion

checkCurrentExcursionName ()

editExcursion()

saveExcursion()

displayUploadSuccessMessage()

displaySaveSuccessMessage()

Use Case: Exit

MainScreen

uploadingExcursionInProgress: Boolean

exitApplication()

displayWaitOnUploadMessage()