UserClass

- RESPONSIBILITIES:
- Gets and sets the User ID (UID) of the current user and the user's information (name, email etc)
- Keeps track of the user's followers, followings and follow requests

- COLLABORATORS
- AcceptDeclineFollowRequestFragment
- FollowFollowing
- NotificationListAdapter
- Register Activity
- Notification Activity
- OtherUserScreen Activity
- Home Activity
- Login Activity
- UserCalendar Activity
- EditUser Activity
- ForumManager Activity

Habit Class

- RESPONSIBILTIES
- Instantiate habit (Habit object) with attributes: UID, HID, title, reason, dateToStart, listPosition, privacy settings (public/ private) and overall progress (progress bar)
- Getters and setters for each property

- COLLABORATORS
- HabitInstance
- HabitListAdapter
- ToDoEventListAdapter
- UserCalendar
- Home
- viewEditHabitFragment
- addHabitFragment
- OtherUserScreen Activity

Database

• RESPONSIBILITIES • Provides API calls to Firebase database for addData, updateDate, addImage, deleteImage	• COLLABORATORS • Home • ForumnPostList • EditUserActivity • FollowerFollowing • Login • MapsFragment • OtherUserScreen • UserCalendar

HabitInstanceClass

• RESPONSIBILTIES : • class creates a habit instance/event which the following attributes: EID (event id), UID (user id), HID (habit id), opt_comment (optional comment), date, duration, IID (image id path to image storage), FID (forum id), isShared (shared setting), optLoc (location) • getters and setters for specified attributes • Getters and setters for these properties	• COLLABORATORS: • Habit • UserCalendar • EditUserActivity • UserCalendar Activity • MapsFragment • CompletedEventsListAdapter • addHabitEventFragment • editHabitEventFragment

AppCompatActivity

LoginActivity

- RESPONSIBILTIES :
- Authenticates user
- Facilitates user sign in using email as unique source
- Reset password option
- gets information of signed in user

- COLLABORATORS :
- Register
- Home
- User
- Database

ArrayAdapter<HabitInstance>

CompletedEventsListAdapter

- RESPONSIBILITIES
- provides a custom layout for items in completed events list on user calendar

- UserCalendar

AppCompatActivity

RegisterActivity

- RESPONSIBILTIES
- Takes input of email, password, first name, and last name to create user profile
- Updates firebase with newly created user
- Checks uniqueness of email

- COLLABORATORS
- Login
- User
- Database

AppCompatActivity

HomeActivity

- RESPONSIBILTIES :
- Shows list of all habits (Habit object) of current user
- User can add new habit (title, reason, privacy, date started, weekdays habit recurs)
- User can view/edit existing habit
- User can delete habit
- User can reorder habit in list
- Display for each habit: habit title, habit reason, privacy status date started, habit tag
- Displays the following and follower count for current user
- Allows navigation to the following and follower page by clicking respective count
- User can click user profile to navigate to profile page (change picture, sign out, delete account)
- Other users can view public habits of the user as long as they follow them
- Navigation bar at bottom allows user to switch to calendar, forum, and notification activities

- COLLABORATORS :
- User
- Habit
- ForumManager
- DatabaseClass
- EditUserClass
- habitListAdapter

DialogFragment

AddHabitEventFragment

- RESPONSIBILITIES
- Lets the user add a habit instance object to their habit list in calendar
- Can only add events of habits that are chosen in home
- Habit event contains the attributes: location, date, user ID, Habit ID, Habit instance ID, comment, photograph.

- COLLABORATORS
- CalendarActivity
- Habit
- HabitInstance

AddHabitFragment
DialogFragment

- RESPONSIBILITIES
- Lets the user add a habit object to their habit list in Home
- Habit event contains the attributes: location, date, user ID, Habit ID, Habit instance ID, comment, photograph.

- COLLABORATORS
- Home
- Habit
- HabitInstance

deletedHabitEventFragment
DialogFragment

- RESPOSIBILTIES
- This class is a fragment that asks the user if they wish to delete a habit and all of its events.

- COLLABORATORS
- UserCalendar

deleteHabitFragment
DialogFragment

- RESPONSIBILTIES
- Allows the user delete a habit (and its associated events), and that deletion is reflected in the database.

- COLLABORATORS
- Home

editHabitEventFragment
DialogFragment

- RESPONSIBILTIES
- This class is a fragment allows a user to view all the details of a habit and edit any details they wish to change.
- Allows user to change date, duration, optional comment, image, location

- COLLABORATORS
- UserCalendar

ShareHabitEventFragment	DialogFragment
• RESPONSIBILTIES • Asks the user if they wish to share their habit event	• COLLABORATORS • UserCalendar

ViewEditHabitFragment	DialogFragment
• RESPONSIBILTIES • Allows the user view and edit the details of a habit	• COLLABORATORS • Habit • Home

EditUserActivity	AppCompatActivity
• RESPONSIBILTIES • Allows the user sign out of the app • Allows the user delete their account, and all of its associated data, and that deletion is reflected in the database	• COLLABORATORS • Database • User

UserCalendar Activity

AppCompatActivity

- RESPONSIBILITIES :
- Displays to do list of habits (habit object) planned for that day
- User can share a private habit instance to the forum
- Can only add events of habits that are added in home
- User can click on habit in list to add an habit event (comment, date, duration, photograph, and location)
- Allows the user to choose/ search their location by opening a map within the app, default location is current user location
- Allows the user to add a photograph by opening a camera within the app to take a new picture or using existing from gallery
- Displays tasks (habit events) (habit instance object) that are completed for current day
- User can go back through calendar picker and see previous to do list of habits and completed habit events
- Navigation bar at bottom allows user to switch to calendar, forum, and notification activities

- COLLABORATORS:
- User
- Habit
- HabitInstance
- addHabitEventFragment
- editHabitEventFragment
- toDoEventsListAdapter
- completedEventsListAdapter

DatePickerCalendar

DialogFragment

- RESPONSIBILTIES
- This class is a dialog fragment that allows a user to choose a date to begin a habit

- COLLABORATORS
- UserCalendar

datePickerFragment	DialogFragment
• RESPONSIBILTIES • This class is a dialog fragment that allows a user to choose a date to go back and check past habit events	• COLLABORATORS • UserCalendar

Forum	
• RESPONSIBILITIES • creates an instance of forum object (first name, last name, eventDate, duration, comment, location, image • getters and setters for specified attributes	• COLLABORATORS • ForumPostList

ForumManagerActivity	AppCompatActivity
• RESPONSIBILITIES • Display public habit instances (Habit instance) for that user • Allows other users to be searched in a search bar with autocompletion • User can see posts of other users they follow (first name, last name, duration, eventDate, optComment, image, location)	• COLLABORATORS • ForumPost • User • HabitInstance

ForumPostList	ArrayAdapter<Forum>
• RESPONSIBILITES • Posts passed in forum post to list • Retrieves image for user's habit event if exists from database and displays as part of post	• COLLABORATORS • Forum • Habit Instance

FollowerFollowing	AppCompatActivity
• RESPONSIBILITES • Sends request to firebase to other users to follow • Updates users following and follower lists when requests are accepted or declined	• COLLOBORATORS • CustomUserList • User

CustomUserList	ArrayAdapter<User>
• RESPONSIBILTIES • Used to pass data of other user within the FollowerFollowing activity	• COLLABORATORS • FollowerFollowing

Map Fragment

DialogFragment

RESPONSIBILTIES	COLLABORATORS
• Allows the user to choose the location of their habit event	• HabitInstance
• Provides a default location	• CalendarActivity
• Gets the best current location of user device	
• Shows location chosen in add / edit habit fragment	

Notification Activity

AppCompatActivity

RESPONSIBILITIES	COLLABORATORS
• Displays notification list (follow requests from other users) using database	• AcceptDeclineFollowRequestFragment
• User can click on request to accept or decline	• User

NotificationsListAdapter

ArrayAdapter<User>

RESPONSIBILTIES	COLLABORATORS
• displays list of notifications in the notification activity	• Notification Activity
	• User

OtherUserScreen Activity	AppCompatActivity
• RESPONSIBILITIES • Displays another users home profile screen (userID, followers, following, and list of habits if current user follows that user)	• COLLABORATORS • ForumnPostList • Database • User • Habit

ToDoEventsListAdapter	ArrayAdapter\<Habit>
• RESPONSIBILTIES • Provides a custom layout for the habits that are to do on the specified day, in the user calendar page.	• COLLABORATORS • UserCalendar • Habit