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

LoginActivity	AppCompatActivity
• 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

CompletedEventsListAdapter	ArrayAdapter<HabitInstance>
• RESPONSIBILITIES • provides a custom layout for items in completed events list on user calendar	• UserCalendar

RegisterActivity	AppCompatActivity
• 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

HomeActivity	AppCompatActivity

RESPONSIBILITIES	COLLABORATORS
• RESPONSIBILTIES :	• COLLABORATORS :
• Shows list of all habits (Habit object) of current user	• User
• User can add new habit (title, reason, privacy, date started, weekdays habit recurs)	• Habit
• User can view/edit existing habit	• ForumManager
• User can delete habit	• DatabaseClass
• User can reorder habit in list	• EditUserClass
• Display for each habit: habit title, habit reason, privacy status date started, habit tag	• habitListAdapter
• 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	

AddHabitEventFragment	DialogFragment

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

DialogFragment

Map Fragment

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	

MapHelperClass

RESPONSIBILTIES	COLLABORATORS
• Allows user to give permission related to location services for map	• MapFragment
	• EditHabitEventFragment
	• AddHabitEventFradment
	• Home Activity

AppCompatActivity

Notification Activity

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 • displays list of notifications in the notification activity

• COLLABORATORS
• 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