

Habit

- Consists of a name, reason, schedule of days of the week it should be repeated , the date to start
- Consists of a progress bar which will increase each time the habit is done
- Performs some calculations for how many times it was done on schedule and how many times it was not done

- User
- AddHabitActivity
- TodaysHabitActivity
- ViewHabitActivity
- EditHabitActivity
- HabitCustomList

User

- User consists of a username and password
- Contains getters and setters for username and password

- UserProfileActivity
- LoginActivity
- RegisterActivity
- EditHabitActivity
- AddHabitActivity
- TodaysHabitActivity
- UserSearchActivity

Event

- Keep track of habit events
- Add photos of events
- Add details of events
- Add location of events
- Display comments
- Display photo of events
- Details of events
- Call Maps to display events with location added

- Habit
- Maps

AddHabitActivity

- Add Habits to HabitList
- Add Habits to Firestore

- User
- Habit
- TodaysHabitActivity

EditHabitActivity

- Edit details of a habit
- Update details in Firestore

- User
- Habit
- TodaysHabitActivity

ViewHabitActivity

- View all the details of a habit
- Users can also delete or edit habit details while viewing a habit

- User
- Habit
- TodaysHabitActivity

HabitCustomList

- Store details of a Habit in a custom list

- Habit

UserProfileActivitiy

- Display username, number of followers, number of following
- Display all habits for the user

- User

UserSearchAdapter

- Adapter to perform search for user

- UserSearchActivity
- User

UserSearchActivity

- Collaborate with UserSearchAdapter to find user based on username

- UserSearchAdapter
- User

TodaysHabitActivity

- Displays today's habits for the user
- User can check habit done once they finish it
- The visual progress indicator updates (increases) as the user finishes a habit
- User can click on the habit to view or edit its details or delete the habit

- ViewHabitActivity
- User

RegisterActivity

- Register the user with username and password
- Store username and password in firebase firestore
- Ensures username is unique (if not asks to enter a different username as it is taken)
- Ensures password is at least 6 characters

- User
- WelcomeActivity

LoginActivity

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| <ul style="list-style-type: none">• Allows user to login with their credentials (username and password)• Ensures password entered is correct by verifying with data in firebase firestore | <ul style="list-style-type: none">• User• WelcomeActivity |
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WelcomeActivity

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| <ul style="list-style-type: none">• Collaborate with Login, Register to give user access to the app | <ul style="list-style-type: none">• LoginActivity• RegisterActivity |
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NotificationsCustomList

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| <ul style="list-style-type: none">• Custom list to hold the notifications | <ul style="list-style-type: none">• NotificationsActivity |
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NotificationsActivity

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| <ul style="list-style-type: none">• Users are notified about follow requests• Users can accept or deny follow request• Notification disappears when addressed | <ul style="list-style-type: none">• NotificationsCustomList |
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AddEventActivity

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| <ul style="list-style-type: none">• Add optional comment for event• Adds optional photograph of event using back camera• Adds location of event using maps• Stores latitude and longitude information in firebase firestore• Downscales image, encodes image to a string to store in firebase firestore• Stores optional comment in firebase firestore | <ul style="list-style-type: none">• User• Habit• Event• ViewEventsForHabitActivity |
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EditEventActivity

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| <ul style="list-style-type: none">• Remove event location , event photograph , event comment• Edit optional comment of event• Edit photograph of event using camera• Edit location of event using maps• Downscales image, encodes image to a string• Store the new latitude, longitude, and encoded image string to firebase firestore | <ul style="list-style-type: none">• User• Habit• Event• ViewEventsForHabitActivity |
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EventCustomList

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| <ul style="list-style-type: none">• Custom list to store event details | <ul style="list-style-type: none">• Event |
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FeedActivity

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| <ul style="list-style-type: none">• Creates the users feed• Gets users habits from firebase firestore• Add the habit to the feed data list | <ul style="list-style-type: none">• User• Habit• FeedHabitCustomList |
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FeedHabit

- Contains getters and setters for feedhabit

FeedHabitCustomList

- Custom list to store feedhabit
 - Sets title, reason, username and progress bar for habits in feed
- User
 - FeedHabit

ViewEventDetailsActivity

- Decodes the imagestring to display the image
 - Display event date, comment, photograph and location
 - While viewing an event the user can also edit the event details
 - While viewing an event the user can delete the event
- User
 - Habit
 - Event
 - EditEventActivity
 - ViewEventsForHabitActivity

ViewEventsForHabitActivity

- Retrieve the comment, date ,image, latitude and longitude data from firebase firestore
 - Collaborate with ViewEventsForHabitActivity to display the event
- ViewEventDetailsActivity
 - Event
 - User
 - Habit