

How to Use this Template

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Submission Instructions

1. After you’ve completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it “**Capstone Project**”
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GitHub Username: [sinha_abhishek](#)

Habits n Me

Description

Whether you want to form a good habit or break a bad habit. You chose what habit you want to form and how many days a week you want to stick to it. This app will take care of reminding you and motivate you by showing you weekly and monthly progress. Set up your daily and weekly goals and let this app help you keep to them

Intended User

This app is for anyone who needs a planner or tracker to form a new habit or break a bad habit

Features

List the main features of your app. For example:

- Track multiple habits
- Smart reminders for habits
- Support for different type of habits like Yes/No habit (Go to gym, Not smoke) or number habits (less than 4 cups of coffee/at least 1 fruit a day)
- Inspiring quotes to motivate user
- Tracker for all/individual habits
- Support for deleting habits
- Cloud backup
- Sync across devices
- App will have widget to track weekly habit progress

User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Habit
n
me

f | connect

G+ | login

login with email

Log in

≡ | TITLE | ⋮

Add First Habit

⊕

SOME MOTIVATION
- xyz

Main Activity

Choose Category

Fit FOOD

READ HEALTH

STUDY OTHER

ADD HABIT

Choose Kind

KIND OF HABIT

YES/NO

Ex. Go to Gym / No Smoking.

NUMBER

Ex. Drink 8 glass of water less than 3 cups

HABIT KIND

Add YIN HABIT

NAME: DO YOGA

TIMES / WEEK

0 7

CANCEL CONFIRM

YIN HABIT

Add Numbered Habit

Name: CUT COFFEE

DRINK LESS MORE EXACT 3 Cups PER DAY

CANCEL CONFIRM

NUMBER BASED HABIT

HABIT NAME

YOGA 30%

S M T W T F S

EDIT PROGRESS

CUT COFFEE

S M T W T F S

EDIT PROGRESS

Winning is a habit - XYZ

MAIN ACTIVITY

HABIT 1

YOGA

Set Number

26 Nov 2016

COT LESS THAN 3 CUPS

- 2 +

CANCEL DONE

UPDATE NUMBER DIALOG

Title

Habit/Name/1

PROFILE

MONTH TRACKER

PROGRESS

DRAWER

MONTH

YOGA 40%

< Nov 2016 >

S M T W T F S

1 2 3 4 5

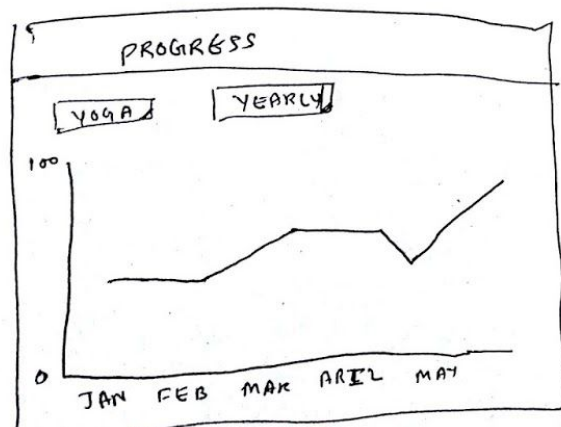
6 7 8 9 10 11 12

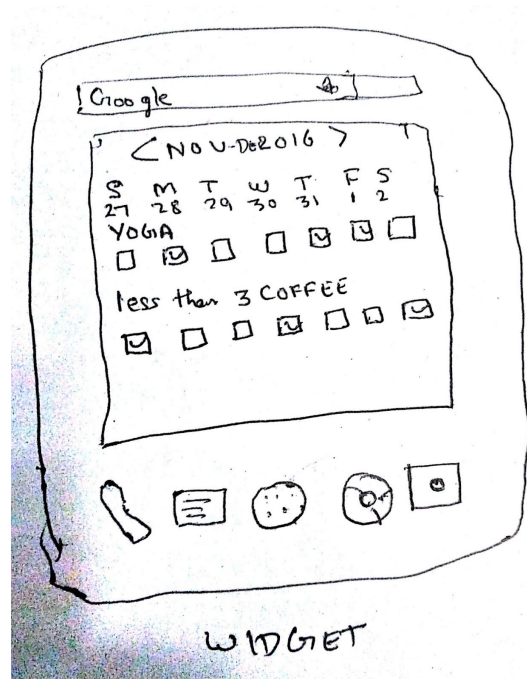
13 14 15 16 17 18 19

20 21 22 23 24 25 26

27 28 29 30

MONTH





Key Considerations

How will your app handle data persistence?

Will use Realm to store data locally. Will write a content provider to access data

Describe any corner cases in the UX.

- 1) There will be a scroll bar on Home page if the number of goals are high enough to fit on page
- 2) Back on progress pages will take back to home page
- 3) If there are no habits app will directly open in add your first habit activity
- 4) If due to absence of internet motivational quotes fail to fetch UI will show a previously shown quote

Describe any libraries you'll be using and share your reasoning for including them.

- 1) Retrofit for HTTP requests
- 2) Nucleus for structuring the project in MVP pattern
- 3) Realm ORM to internal storage
- 4) Picasso for images

Describe how you will implement Google Play Services.

- 1) Firebase for cloud storage
- 2) Firebase for authentication and Google login
- 3) Admob for showing interstitial ads

Next Steps: Required Tasks

Task 1: Project Setup

The project setup will need following steps

1. Set up new project in Android Studio and github repository
2. Familiarize with Firebase services for authentications and cloud storage
3. Add gradle dependencies for realm, firebase, retrofit and nucleus
4. Put together icons and resources
5. Create signingconfigs for release and debug version of app

Task 2: Implement UI for Each Activity and Fragment

- Implement UI for listing all the habits added by user using recyclerview
- Implement UI for adding new habit.
- Implement UI for showing cumulative progress
- Implement UI for monthly progress
- Implement UI for profile page
- Implement UI for widget to view current week

Task 3: Implement Firebase services for authentication and cloud storage

- Create google and facebook login
- Implement cloud storage

Task 4: Implement interface to store and fetch habit details and get daily motivation

- Create DB structure which can store habit details
- Implement Content Provider to fetch and set data in the habit db
- Implement network services to pull daily quotes to motivate user
- Implement loaders to feed data to different activities

Task 5: Integration of UI with data

- Connect content provider with main page
- Connect login page with firebase services
- Connect content provider with analytics pages
- Connect content provider with add habits page
- Implement widget to pull data from content provider

Task 6: Adding tests

- Add unit tests
- Add connected tests

Add as many tasks as you need to complete your app.

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