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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**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"

GitHub Username: neerajms

My Mutual Funds

Description

It helps people to keep a track of mutual fund investments(currently supporting only funds in India) in a single app. User can add funds to portfolio and also specify the number of units of each fund owned. The app will show the net worth of the user and graph of the net worth against date.

Intended User

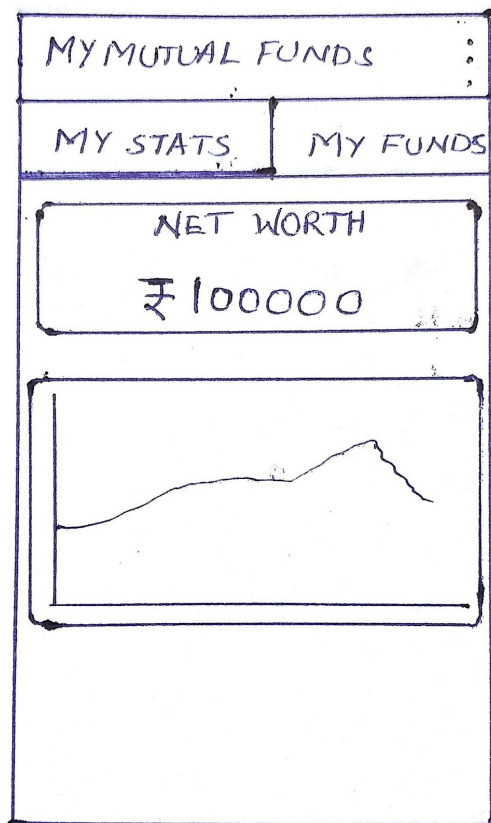People who invest in mutual funds.

Features

- Add funds to portfolio
- Specify the number units of each fund owned
- Shows the net worth based on funds in hand
- Shows graph of net worth against date
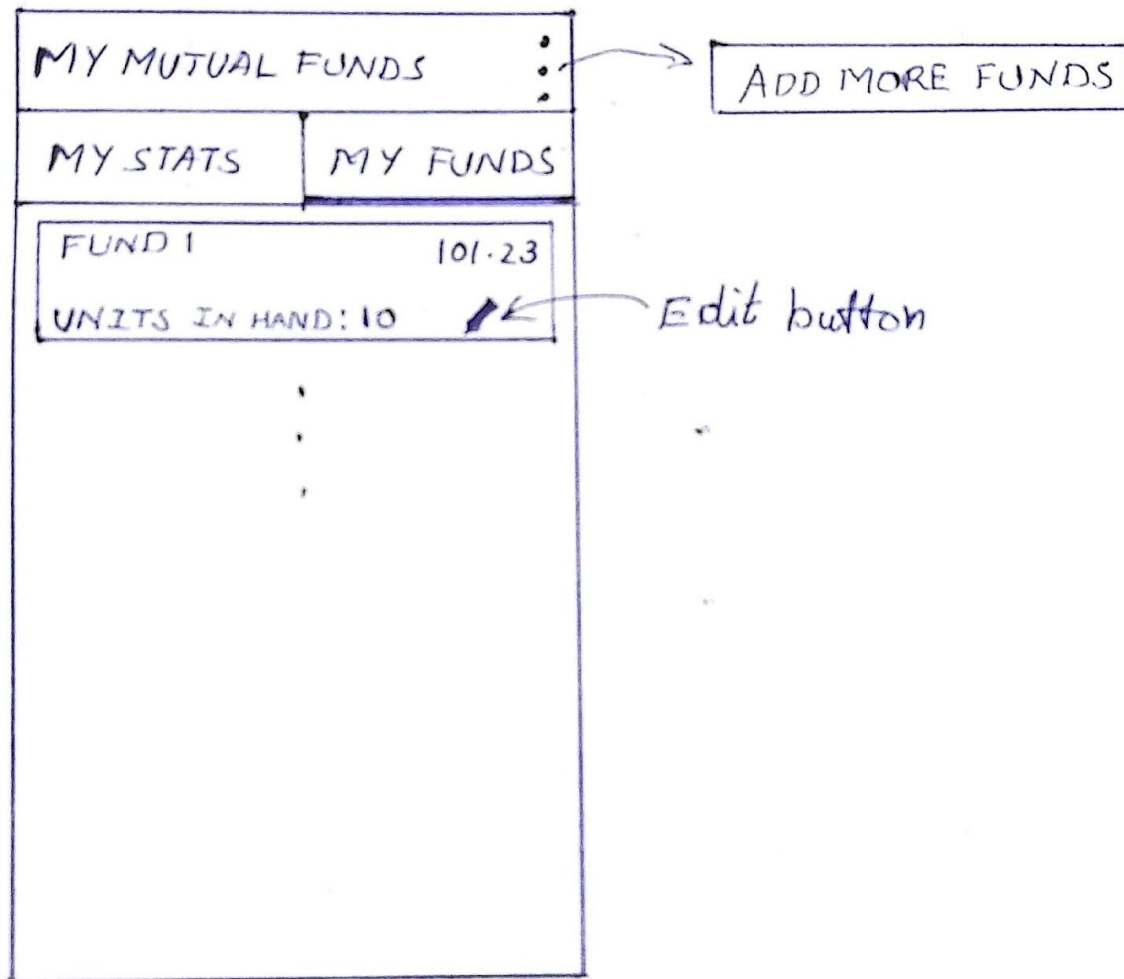- Shows graph of NAV(net asset value) against date for each fund

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.

Screen 1

Home screen shows two tabs - My Stats and My Funds.
My Stats screen shows the statistics. Graph plots net worth against date.

Screen 2

MY MUTUAL FUNDS ⋮ → ADD MORE FUNDS

| MY STATS | MY FUNDS |

FUND 1   101·23

UNITS IN HAND: 10 ✎ ← Edit button
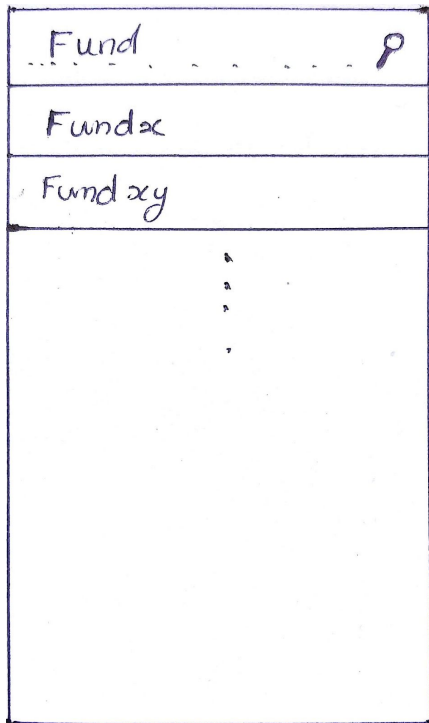
My Funds screen shows all the funds the user owns. NAV for each fund and number of units of each fund in hand is also shown.

Edit button can be used to edit the units in hand. Option to add more funds in the options menu.

Screen 3

Funds can be searched by name and added to portfolio.

Key Considerations

How will your app handle data persistence?

- Uses firebase database
- The app will use an SQLite database with content provider to store the search history and provide search suggestions based on it.

Describe any corner cases in the UX.

For example, how does the user return to a Now Playing screen in a media player if they hit the back button?

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

Unirest library to fetch data from Mutual Fund NAV - India API
MPChart for the graphs

Describe how you will implement Google Play Services.

Firebase - to authenticate users and store data
Admob - to show ads

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

Update Android Studio and SDK to the latest versions
Add the necessary dependencies for play services and other libraries

Task 2: Implement UI for Each Activity and Fragment

Build UIs for:
● Sign in
● Statistics
● Search
● Portfolio
● Graph

Task 3: Firebase authentication & database

● Enable Google sign-in
● Define rules for the firebase database

Task 4: Fetch data from API

● GCMTaskService with an IntentService
● An AlarmManager to trigger data fetch once every day
● Store data in firebase

Task 5: Implement Search Suggestions

● Implement SQLite DB
● Implement content provider

Task 6: Implement widget

● Widget showing the net worth

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

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