CAPSTONE PROJECT DOCUMENT

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App Title: What's my future

Description

This app provides the user with personalized daily horoscope prediction (based on vedic calculations) as well as vedic numerology report. Users can get daily notifications on daily basis on how their day would be based on following calculations.
1>Health
2> Emotions
3> Personal Life
4>Profession
5>Luck
6>Travel

The user also has the option to save one or more profiles so that he/she does not have to enter his details every-time. The app provides easy to read information for user which are easy to understand and interpret as well.

Problem that app addresses

- Current horoscope apps provide too much jargon
- Almost all the apps have terrible UI
- None of the APIs have the option to save the user profile. He would have to enter his details every time.
- Current apps don't provide daily notifications automatically telling user about his daily predictions and automatically saving them for a user.

Note : The source of the information shall be provided via the APIs of
http://www.vedicrishi.in/web-astro-api/

Intended User

Normal android user who believes in vedic astrology and wishes to get information.

Features

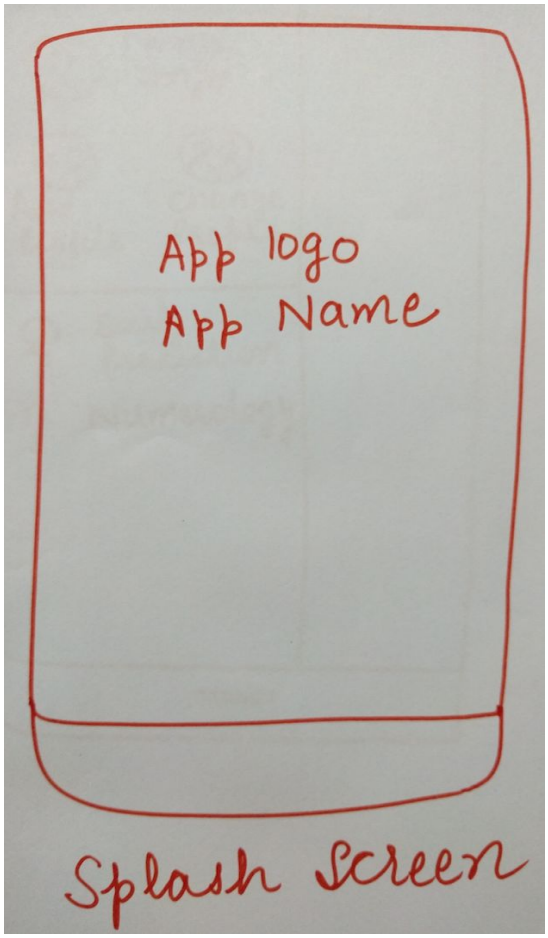
List the main features of your app. For example:

- Provides personalized daily prediction based on vedic calculations.
- User also gets access to numerology report
- Provides user to add one more profiles
- The app shall conform to the Material Design standards

User Interface Mocks

This sections contains all the hand drawn UI mocks of the app.

Screen 1 and Screen 2



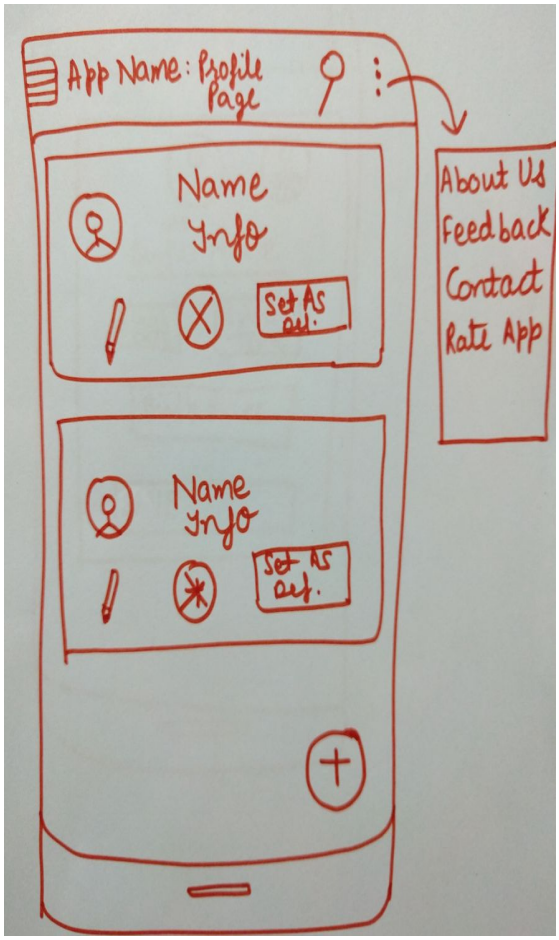


Fig. 1 (Splash Screen)

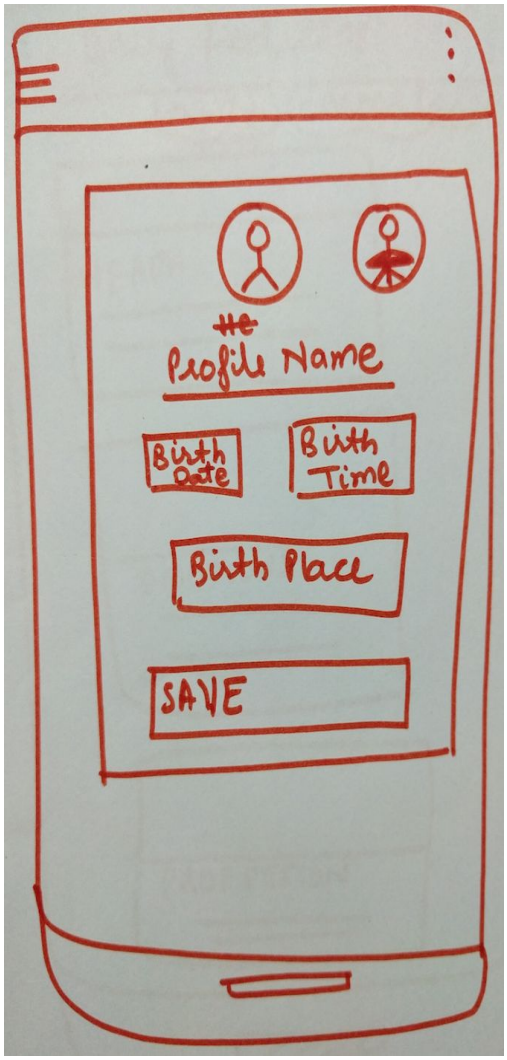
Fig. 2 (Home Page)

Fig.1 is the splash screen that is the first thing that appears whenever the app opens up. It contains a background (color scheme would be uniform to that of app). It has app-logo and app-name.

Fig.2 is the user's profile information display page. It is the first thing that appears after the splash screen. It contains (in the card view form) the various profiles of the individuals that app user has added. Each card contains a display picture, his/her basic details (like Date of birth, time) required for astrology. Below this, in the card, are the options to edit, delete and set as default a particular profile. It also contains one more button (not in picture) to allow user to see the profile's astrology details. (Daily prediction and numerology reports)

On clicking the floating icon, the user can add one more profile into it. There is also a search bar at the top to search for the profiles on this page.

Screen 3 and Screen 4



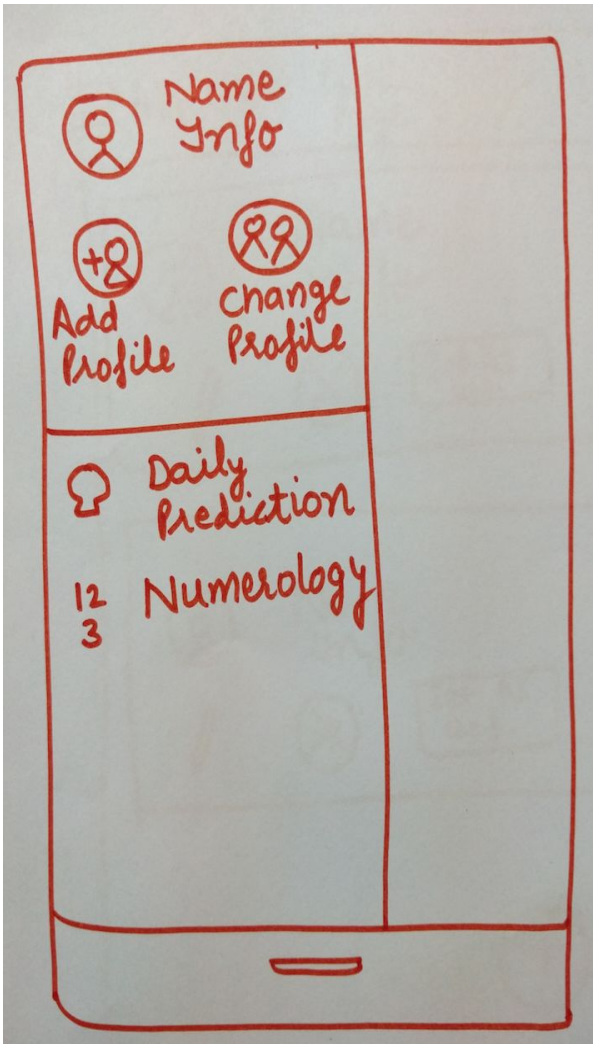


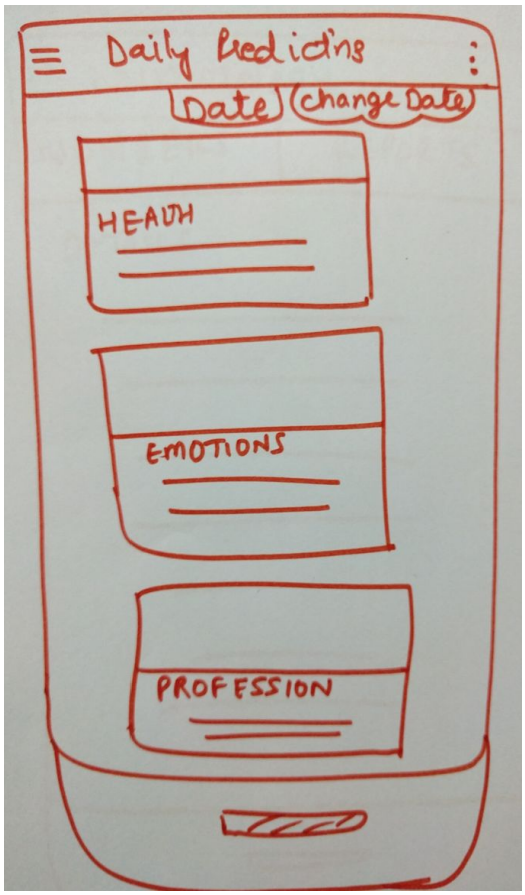
Fig 3. Add user profile view

Fig.4 Navigation Drawer

Fig 3> This can be reached either by clicking the floating action button or by clicking on the add profile button (in the navigation drawer). It asks the user to enter all the necessary details required for astrology prediction of a particular person.

Fig. 4> It is displaying the navigation drawer view.

Screen 5 and Screen 6



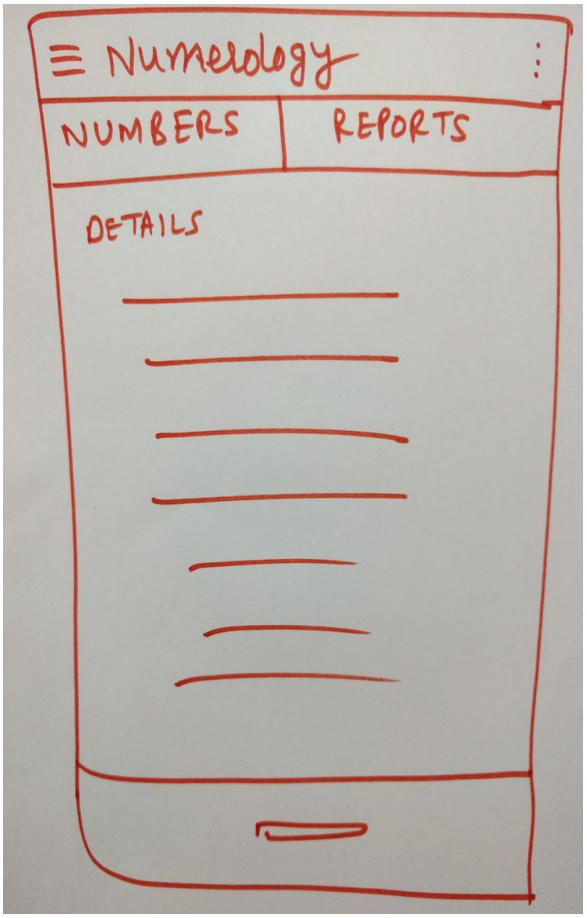


Fig. 5 Daily Predictions page view

Fig. 6> Numerology Page view

Fig.5> It shows the daily predictions page. It can be reached either via navigation drawer or via clicking on astro-details button, available for each profile. It contains the card view.Each card tells how would the day for the person would be based on various parameters like (health, profession, emotions etc).

Fig. 6> It contains the numerology details page view. It has to two sub tabs. One is for showing summary and the other is for showing detailed reports.

Key Considerations

How will your app handle data persistence?

The app shall store the user profile data locally and also the daily predictions and numerology reports locally. The daily predictions shall refresh themselves everyday via GCMNetworkManager (only for the default profile) in case the user opts for it.

Describe any corner cases in the UX.

NA

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

Retrofit library : Retrofit library could be used as it improves code quality and is one of the most commonly used type-safe HTTP client for Android and Java for making HTTP API calls.

Picasso Library for caching some images

Describe how you will implement Google Play Services.

I shall be using the following services
1> **Google Maps Services** ::: To auto-fill location recommendation as well as compute lat-long based on the user input for the location
2> **Google Ads Services** ::: To display the ads
3> **GCMNetworkManager** ::: To sync in daily predictions (in case user chooses a widget)

Next Steps: Required Tasks

Task -1:

Set up the project with navigation drawer option enabled. MinSDK version would be based on the one that supports material design specification.

Task -2:
Set up the splash screen that displays the name and the logo.

Task -3:

- Prepare the schema for maintaining the user profiles
- Add methods for content provider for saving/searching/adding/deleting user Profiles

Task -4:

- Prepare the page default home page
    - Display all the userProfiles
    - Fill the option to delete, update each profile
    - Provide the provision to add a profile and connect it with the Floating Button

Task -5:
Provide the provision to search for the user profiles on the default home page

Task -6:

- Prepare the interface to interact with the remote server through its APIs. Interface should be built using the Retrofit client
    - Build and test the APIs to fetch numerology reports
    - Build and test the APIs to fetch the daily predictions
    - Ensure that the interface makes API call only when required. It should try to use the content Provider methods first.

Task -7:

- Build up the numerology reports view page.

Task -8:

- Prepare the schema for maintaining the numerology reports
- Add methods of content provider for adding/updating numerology report for every user profile.
- Note: It is a one time call for each user-profile

Task -9:

- Build up the daily prediction page

Task -10:

- Prepare the schema for maintaining the daily predictions for a userprofile. The daily predictions shall be refreshed daily and only one entry shall be maintained for every user profile
- Add methods of content provider for adding/updating prediction page.

Task -11:

- Prepare GCMTaskservice and GCMNetworkManager to daily update the predictions for default profile only. The GCMNetworkManager shall be run daily (once every day).

Task -12:

- Fill the options in the navigation drawer and link them with the pages i.e. User-Profile Pages, Numerology Reports, Daily predictions page etc).

Task -13:

- Build up the following pages
    - Feedback
    - About Us
    - Contact
    - Rate App
- Link the pages mentioned above with the options menu.

Task - 14 :

- Make minor changes
    - RTL support
    - Ads Mob Library
    - Add paid/free flavour
        - Paid flavour won't have ads in it.
    - Many more (TBD)
- Additional optional features
    - Widget
    - Tablet UI
    - Many more (TBD)

Task-15 :

- Perform integration testing
- Perform user based testing i.e asking other users to try out our the app and give feedback
- Make improvements based on the feedback

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**"