

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**”
3. Add this document to your repo. Make sure it’s named “**Capstone_Stage1.pdf**”

Description Intended User Features

User Interface Mocks

Screen 1 - List View Screen Screen 2 - Detail Activity Screen 3 - Tablet View Screen 4 - Favourite Widget

Key Considerations

How will your app handle data persistence?

Describe any corner cases in the UX.

Describe any libraries you’ll be using and share your reasoning for including them. Describe how you will implement Google Play Services. Using the Widgets.

Next Steps: Required Tasks

Task 1: Project Setup

Task 2: Implement UI for Each Activity and Fragment Task 3: Implement the Reddit API

Task 4: Set up the UI Activity

Task 5: Set up the Google Firebase ad

Task 6: Implement Google Analytics
Task 7: Implement SharedPreferences
Task 8: Implement ContentProvider

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GitHub Username : japjots3198

YARA - Yet Another Reddit App

Description

Reddit.com is a social networking website where registered users can post content such as direct links or text posts. These posts can be made in user made sections called subreddits which users can actually follow based on their interest. Registered users can upvote or downvote posts which will make them more/less visible to other users. This is an app which allows the user to read the list of subreddits, favourite them and keep them in widgets.

Intended User

This is for the Reddit users who want to read a custom set of subreddits, but don't want to post anything or upvote/downvote any reading.

Features

List the main features of your app. For example:

- • Get the content from [Reddit](#) using the [API](#) provided,
- • Load content for subreddits in listview
- • Allow user to search and sort in subreddits
- • Show user the detailed view for the reading
- • Allow user to favourite the content on the detailed view

- ● Allow user to share the link on detailed view
- ● Allow user to open the content using intents
- ● Banners ads will be shown in the detail view screen
- ● Google analytics for tracking the app usage

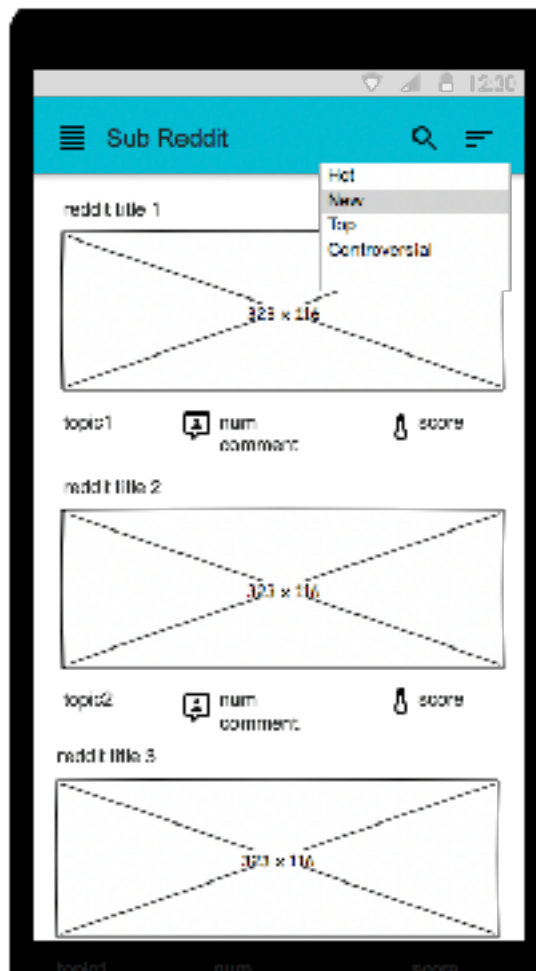
User Interface Mocks

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.

2

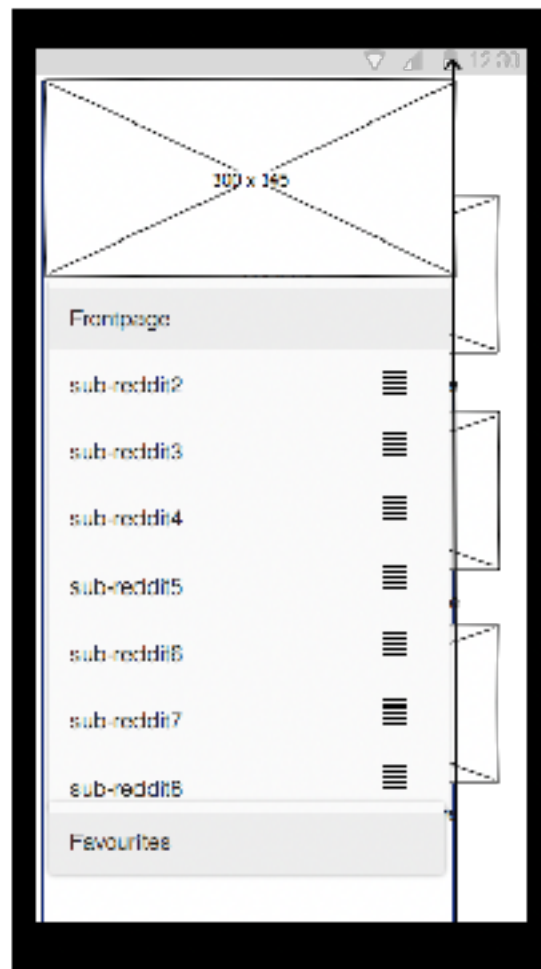
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Screen 1 - List View Screen



This is the main activity and it contains a list view that displays the content from the chosen subreddits. There is a navigation drawer containing subreddits and favourites menu item, like below. The title-bar has the menu item for search and sorting the items based on category being hot, new, top and controversial.

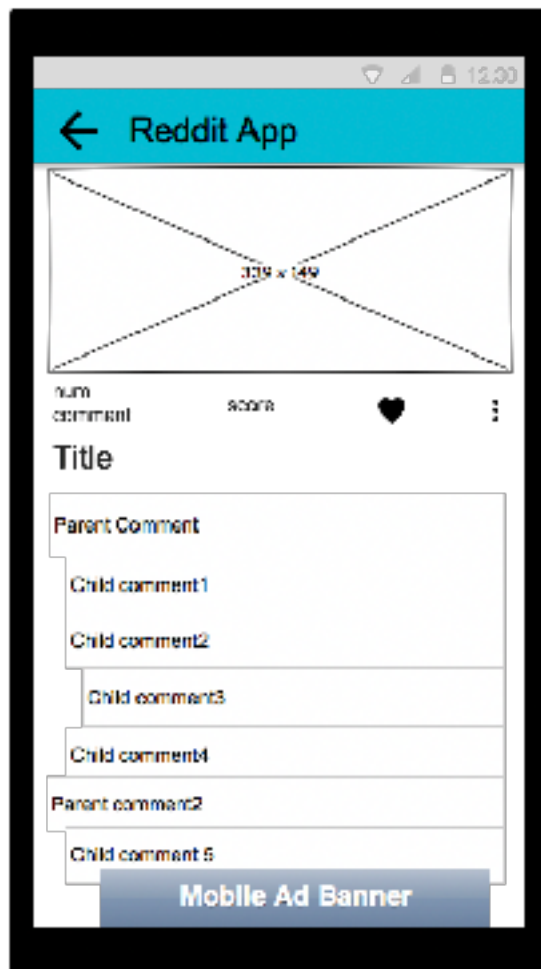
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Users can reorder the subreddit ordering. Also, when clicking on the item the detail view of the item opens.

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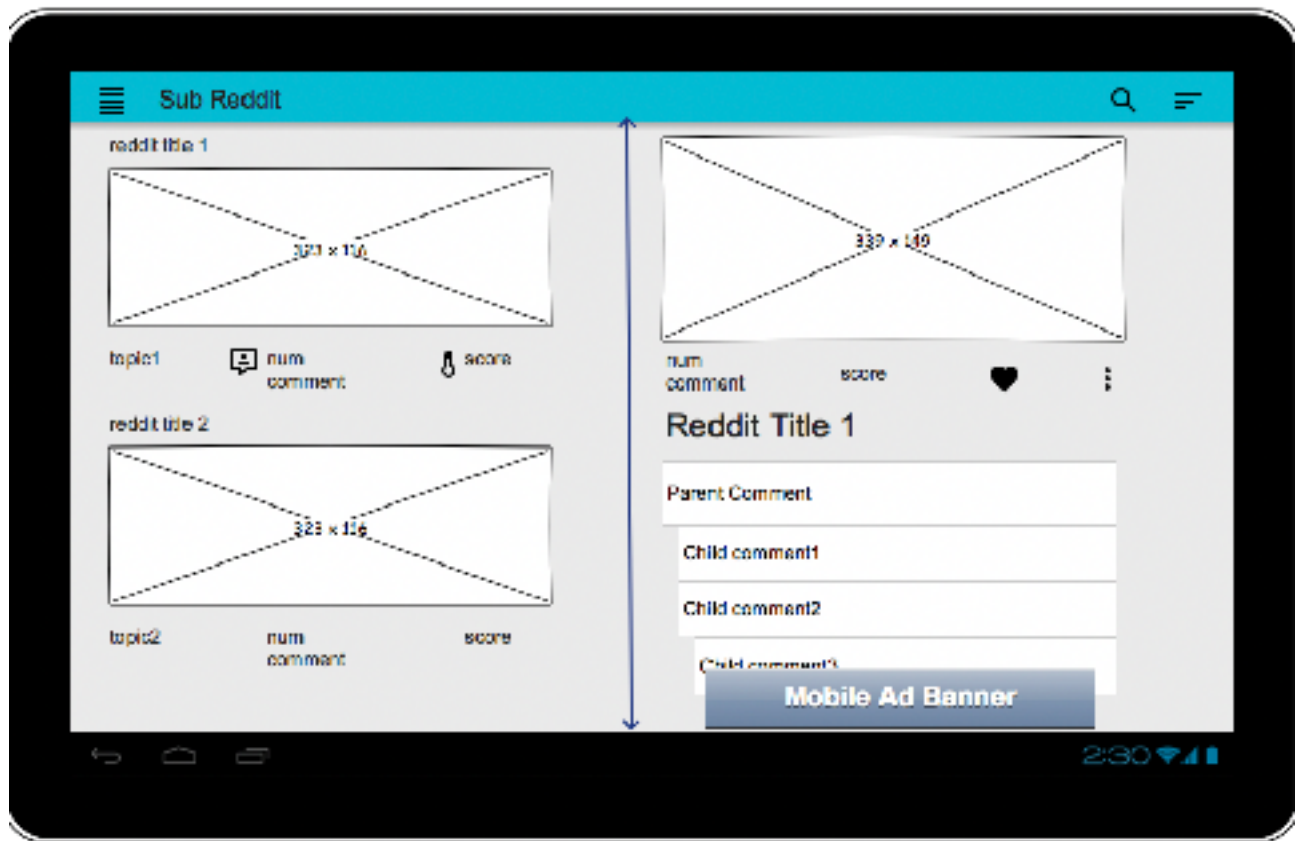
Screen 2 - Detail Activity



This is the detail screen view which shows a large header image of the content which can be clicked to open the related website. The comments can be viewed in a scroll view below. The ad banner appears at the bottom of the screen.

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Screen 3 - Tablet View



This page contains 2 pane view of the list view on the left and detail fragment on the right, when clicked on the item on the left side.

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Screen 4 - Favourite Widget



This widget, when added to the home screen shows the favourite reddit.

Key Considerations

How will your app handle data persistence?

A content provider will be created to manage the favorite's database. SharedPreferences will be used to store the user's custom list of subreddits.

Describe any corner cases in the UX.

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When there is no network, toast message will be shown. Also, when we don't fetch any list of reddit items, toast message is shown again. On the home page subreddit, only search is shown in the menu item.

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

I will be using Picasso or Glide to handle the loading and caching of images. Also, I will use okhttp or volley for http requests. Also, I may use retrofit for rest calls.

Describe how you will implement Google Play Services.

I will try to use google location api and google+ services to share the information to the friends.

Using the Widgets.

I will create the widget for the showing the wish-list to the users.

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

I have to setup the projects, including the libraries.

- • Volley - For caching images and http api calls.
- • Butterknife - For binding the UI elements
- • Firebase - For showing ads
- • Google Play Services (GMS) - For google play analytics.

Task 2: Implement UI for Each Activity and Fragment

Here are my UI activities:

- • Build UI for List Activity
- • Build UI for Detail Activity
- • Build UI for Detail Fragment

- • Build UI for managing the sub reddit

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Task 3: Implement the Reddit API

Implement [Reddit.com](https://www.reddit.com/dev/api) API using retrofit. Documentation for the API can be found here: <https://www.reddit.com/dev/api> . Here are some URLs to be tried:

- <https://www.reddit.com/.json>
- <https://www.reddit.com/r/aww/.json>
- <https://www.reddit.com/r/aww/new/.json>
- <https://www.reddit.com/search.json?q=kittens&sort=new>
- <https://www.reddit.com/r/pics/search.json?q=kittens&sort=new>

Task 4 : Set up the UI Activity

- • Setup listview to adapt to the reddit item list, and allow the view to change when navigation item is clicked.
- • Sorting the list view by menu item
- • Search with query in sub reddit.
- • Implement the detail activity and the detail fragment.

Task 5 : Set up the Google Firebase ad

- Get google-services.json file from Firebase console. Add ad unit ID to app, and admob

banner to detail activity.

Task 6 : Implement Google Analytics

- Get the configuration file from developers.google.com and implement the screen tracking

into the app.

Task 7 : Implement SharedPreferences

- Manage the list of subreddits via shared preferences.

Task 8 : Implement ContentProvider

- Create a ContentProvider to use for saving favorites.

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

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