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## Coffee Viz Beer

### Description

There are people and things that are so much different, so opposite in nature and people don't really see them together but when they do come, they make a combination that others have never imagined.

"This is all about finding such stories that people might not have imagined"

This app will have stories of such combinations like food combinations you have not thought of, maybe like Pizza and nutella.

You might share some of stories where you became friend with a person who is out of your league.

User can find really interesting stories and combinations.

## Intended User

The app is for everyone maybe who wants to try something new and out of the box. It is also for all those who wants to read some interesting stories of people.

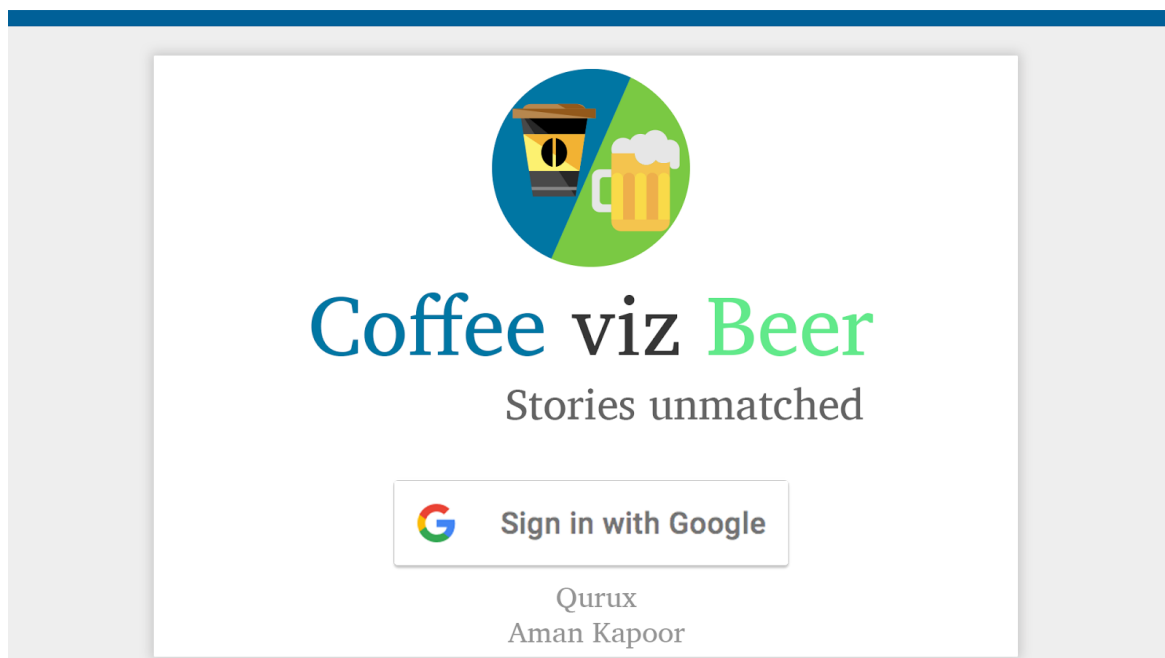
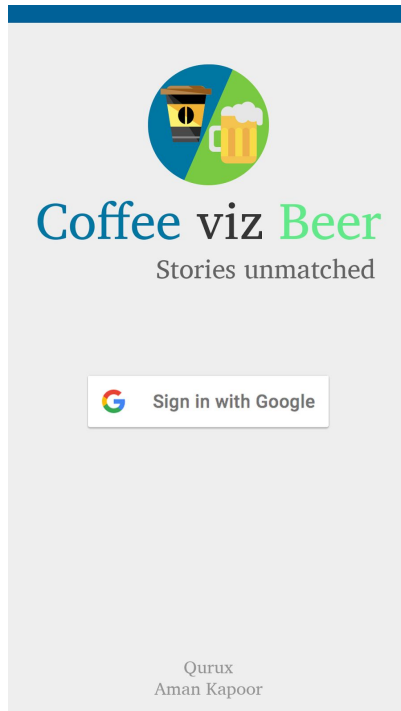
## Features

Main features of CvB are:

- Create user account through google login to firebase server.
- See all the posts by other people.(Currently all posts are public)
- Add new post to share to public.
- Select photo while adding post or can choose avatars from app.
- Bookmark posts and list of such posts.
- Edit profile.

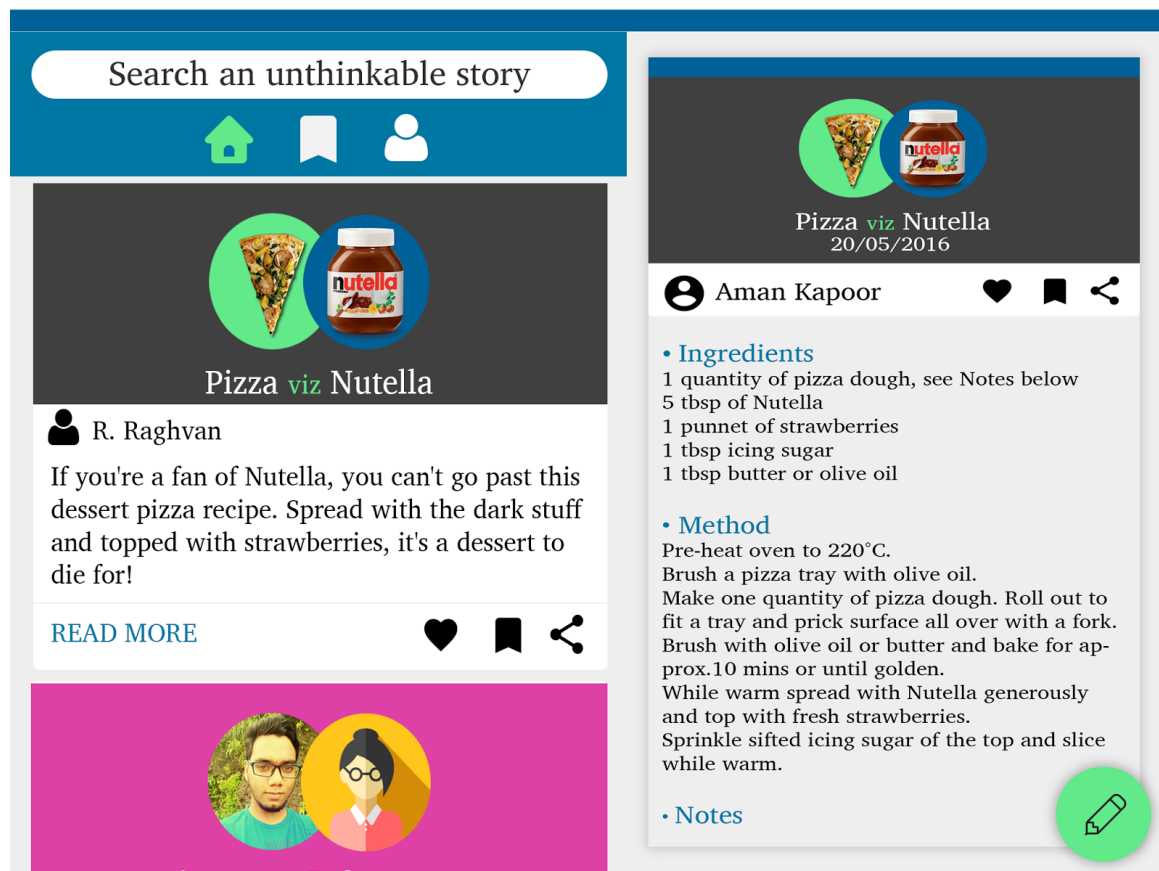
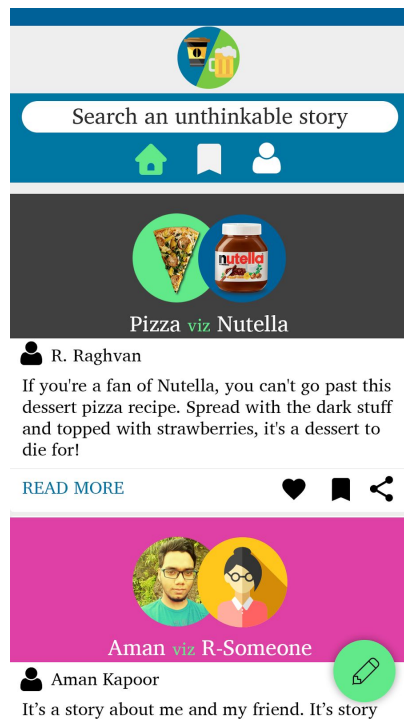
## User Interface Mocks

### Login Screen




User will see this screen when starting app for the first time or if user has logged out. User can sign in with google and it will authenticate and move to next screen on success. On error it will show proper error message to user.

## Home Screen

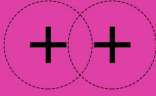


This is the screen which user will mostly interacts with. User can see all posts here and can like them. They can like the post, bookmark the post saving it for later use. It is also the screen from where they can navigate to other screens.


## Add New Post Screen



A story can be of anything which you thought is not a match but still it was. It could be a story of you and your crush or maybe a new food or drink combination you made last night which tastes awesome. Feel free to write anything. Add photos and text below.




This viz That

 Aman Kapoor (Remove)

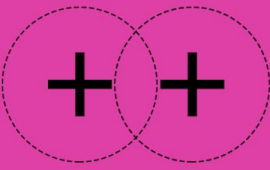
Add a 160 or less words summary. Write something that attracts others to read your story. You can add complete detail below.

[ADD DESCRIPTION](#)


[Submit your story](#)



A story can be of anything which you thought is not a match but still it was. It could be a story of you and your crush or maybe a new food or drink combination you made last night which tastes awesome. Feel free to write anything. Add photos and text below.



This viz That

 Aman Kapoor (Remove)

Add a 160 or less words summary. Write something that attracts others to read your story. You can add complete detail below.

[ADD DESCRIPTION](#)

[Submit your story](#)

This is the screen where user can add new posts. They can choose to go anonymous here. They can choose to either submit only short text or can add complete detailed text.

## Add New Post With Dialog Screen

A story can be of anything which you thought is not a match but still it was. It could be a story of you and your crush or

Choose a photo      Choose an avatar

This viz That

Aman Kapoor (Remove)

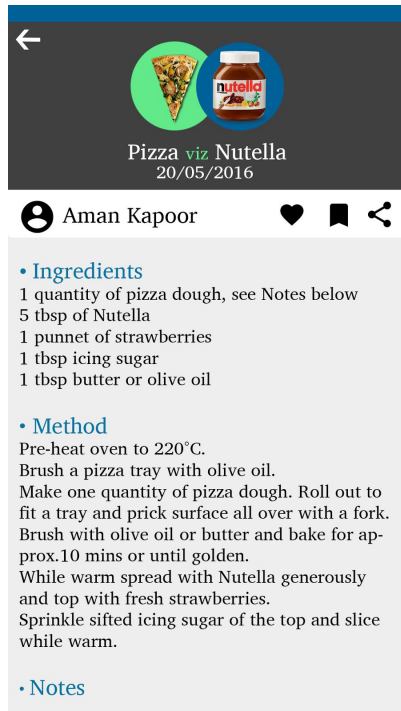
Add a 160 or less words summary. Write something that attracts others to read your story. You can add complete detail below.

[ADD DESCRIPTION](#)

Submit your story

User here comes here when he/she clicks on photo icon in add new post screen. A dialog comes where he/she can choose to either upload their custom picture or pre-given avatars.

## Detailed Post Screen



This is the screen where user can see detailed texts about the post. User can click on read more on any post and go to this screen to see the full post. User can like, bookmark or share post from here also.

## Key Considerations

### How will your app handle data persistence?

User data will be stored on server and cached on device. All the posts will be added to a content provider. Provider can be queried for getting bookmarked posts. All posts will be deleted after some specified days when the new data gets added to not overload the device.

### Describe any corner cases in the UX.

User have buttons on the home screen only to move between home, bookmarks and profile. Adding new posts will open new activity which has a back button on top to go back. In adding new post user can choose photo which will take the user to another application to clicking or choosing photo. User can also choose avatar from app only which on select will return back to adding post screen.

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

- Glide: For handling images download and caching.
- Firebase SDK: Using firebase as server. So all authentications and data are on firebase.
- Android Support Libraries: For design and other support.

### **Describe how you will implement Google Play Services.**

Using google sign-in for login and authentication. Will be using google analytics for tracking app usage. Will be using google mobile ads services.

## **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**

Follow these steps for setting up the project:

- Create a new project on Android studio.
- Follow this link for setting up firebase(<https://firebase.google.com/docs/android/setup>). Includes setting web portal and adding sdks.
- Configure other libraries needed in gradle by adding proper dependencies.
- Add other google services dependencies like google analytics , ads etc. (<https://developers.google.com/android/guides/setup>)

### **Task 2: Implement UI for Each Activity and Fragment**

- Build UI for LoginActivity
- Build UI for HomeActivity
- Build UI for each posts
- Build UI for adding new post
- Build UI for DetailedActivity
- Build UI for AvatarActivity

### **Task 3: Implement Authentication process.**

The task is to make user sign-in using google if not already logged in. If user is new, create a new account automatically without user interference. Firebase and google authentication is



used for this. Handle any error cases and give proper error message to user and a chance to retry.

#### **Task 4: Implement Posts Activity**

The home activity handles all tasks related to retrieving and operations on already posted posts. Following are the subtasks:

- Request server for latest posts and save them in content provider.
- Show posts to users when content provider changes(new data is added).
- Show user already cached data from local storage.
- Handle liking of posts.
- Handle bookmarking of posts.
- Handle sharing of posts.
- Handle navigation to bookmarked posts and user profile.
- Handle orientation changes and save data and position.

#### **Task 5: Implement Detailed viewing of posts.**

The detail activity shows detailed view of posts.

Tasks included:

- Retrieve detailed story of the post selected and show to user.
- Implement liking,bookmark and share functionality.

#### **Task 6: Implement Adding new post.**

Handle adding new post.

Tasks included:

- Verifying user input data and whether all required fields are filled.
- Send data to firebase server to add to server database.
- Save the fields in shared preference to handle cases of loss of data and error in saving posts on server. Save later whenever possible.
- On success save the post directly in local storage.
- Handle orientation changes and other error cases.

#### **Task 6: Implement retrieving data from server.**

Handle getting new data from server. We will make request only when user is interacting with the app so we will be using IntentService for that.

Tasks included:

- Making request to firebase realtime database to get posts.

- Saving posts on local database for offline experience.
- Handle error cases.

## **Task 6: Implement Widget on homescreen.**

Show posts on widget. Posts come from content provider.

Tasks included:

- Design layout for widget.
  - Design layout for widget posts items.
  - Put a refresh button that updates data on request.
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