PicTag: E-Commerce For Pictures

NAMES

Students worked on this project:
Computer Science:

1. Phanindra Kumar Kannaji - pkanna1
2. Sean Imam - imam1
3. Ananthachari KV - kan8
4. Nikita Jituri - njituri1

Visual Arts:

1. Natalie Sullivan - ns13
2. Jamie Smith - jamie13

INTRODUCTION

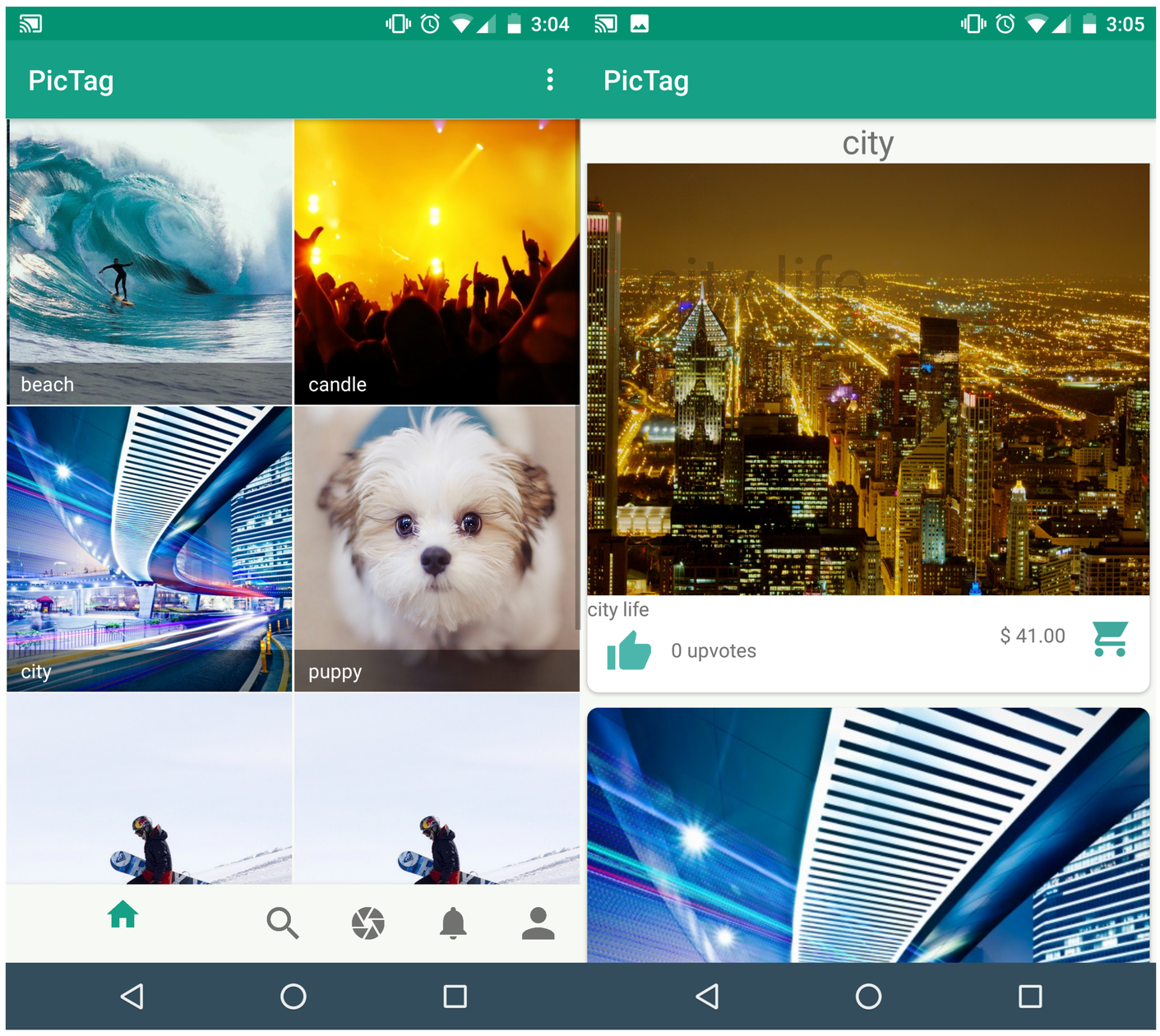
PicTag is an image publishing and advertising application, however it has a unique news feed that constantly cycles through photos based on tags specified by the user. A user can post any pic that he/she owns and can also add a price to it, the post will be displayed to the users with a watermark that is entered by the owner. The picture can be bought within the app and will be removed from the home feed from all other users. The different tabs and features provided by the PicTag and the functionality and details on the technologies used are described below.

SEARCH TAGS

In the Search tags page, the user can select the tags to see the images about those tags.

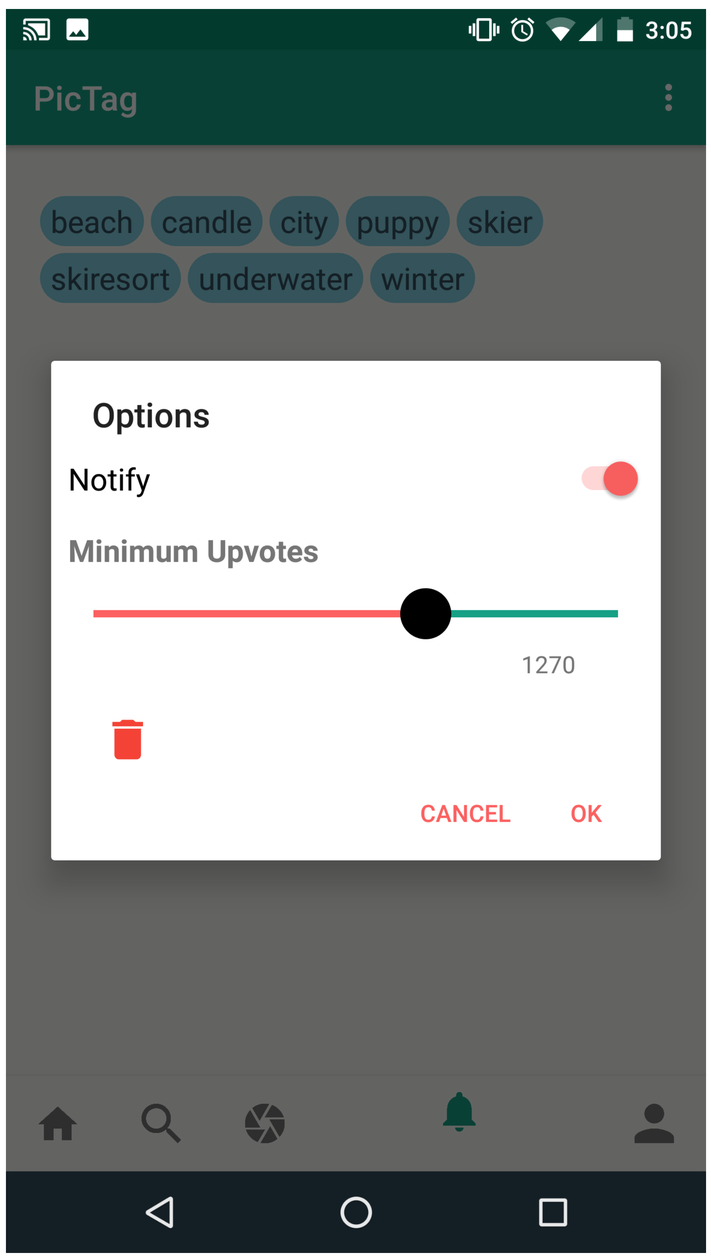
HOME

In the Home feed, users can see the posts that are public and of those tags selected. And also upon clicking any image, the images of that tag can be seen in a new page.



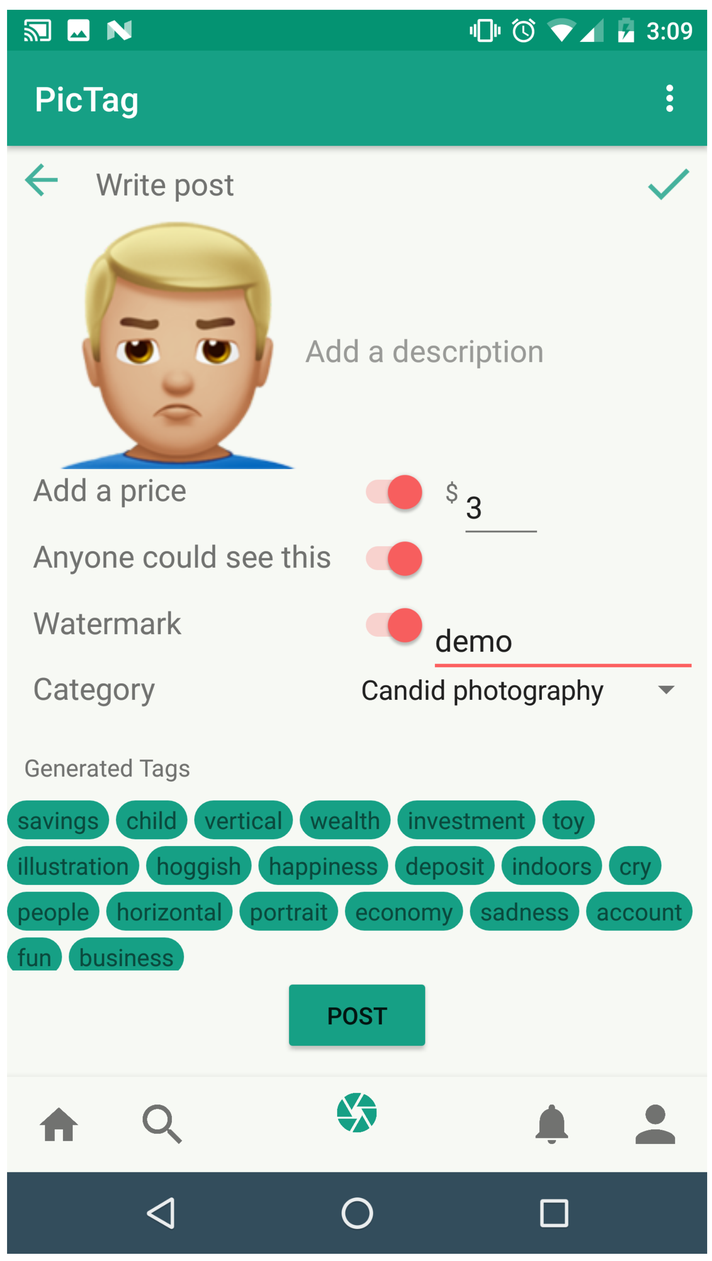
EDIT TAGS

In the Edit tags page, the user can edit the tags preferences to choose whether to receive push notifications to the tags selected or not.



POST NEW IMAGE

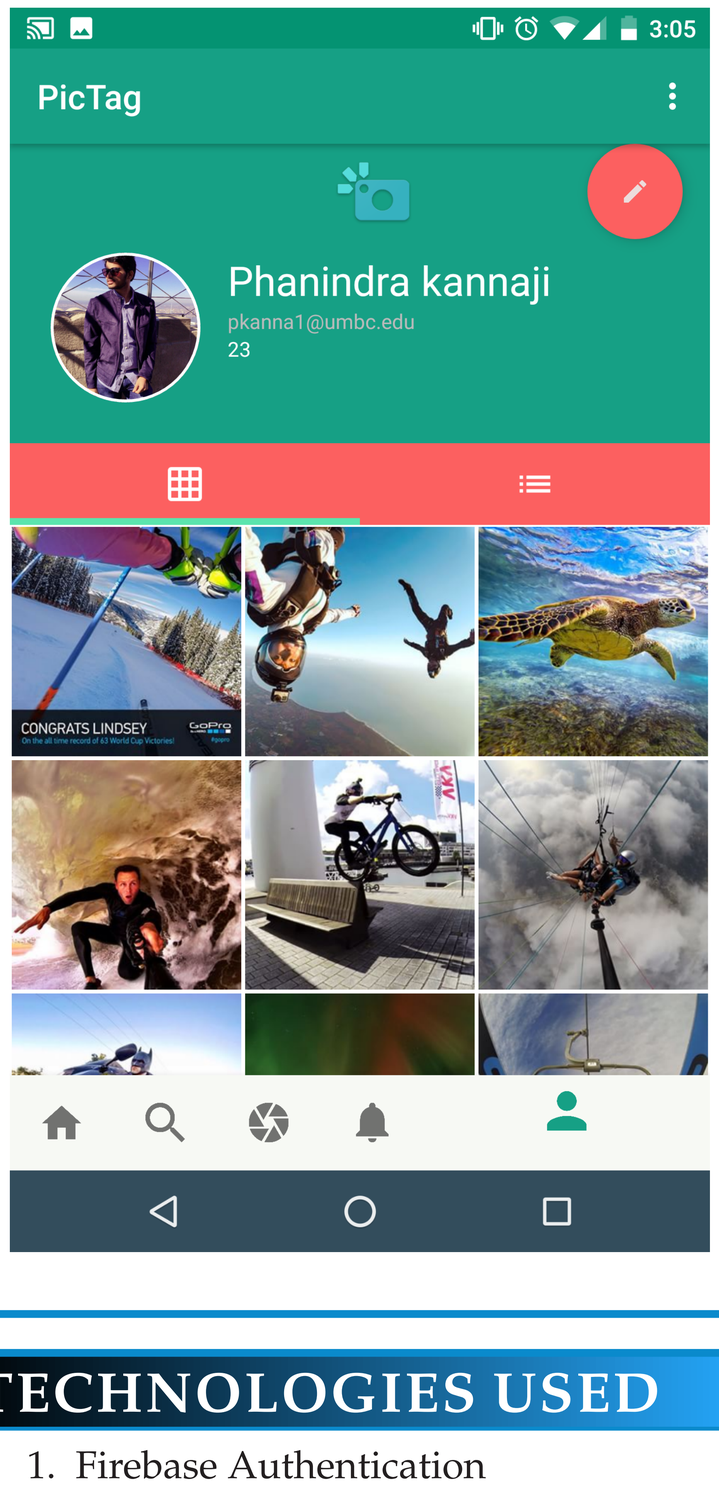
In the Write Post, the user can choose an existing picture or click an image from camera and choose the options and post the picture..



PicTag: E-Commerce For Pictures

PROFILE

The user can choose to update the profile information and also to see the pictures purchased by him/her.



METHOD

The pictures uploaded by the users will be stored in Firebase Storage and the download Url is stored in MySql database. The PHP scripts will return the results in JSON format and the download URLs are parsed in the Android side and the images are loaded. For the tags, we used Chipview to display the tags in that format. The uploaded picture is sent to Clarifai for the image object and action recognition and then the returned tags are also stored in the database for the post. The color selection is done by Fine Arts students and provided to us.

Primary Colors

HEX #36B1BF	HEX #4AD9D9
RGB 54,177,191	RGB 74,217,217
CMYK 72,7,0,25	CMYK 66,0,0,15

Secondary Colors

HEX #E9F1DF	HEX #45B29D	HEX #334D5C
RGB 233,241,223	RGB 69,178,157	RGB 51,77,92
CMYK 3,0,7,5	CMYK 61,0,12,30	CMYK 45,16,0,64

Tertiary Colors

HEX #0B1D26	HEX #F5A503	HEX #F2385A
RGB 11,29,38	RGB 245,165,3	RGB 242,56,90
CMYK 71,24,0,85	CMYK 0,33,99,4	CMYK 0,77,63,5

TECHNOLOGIES USED

1. Firebase Authentication
2. Firebase Storage
3. Clarifai API
4. Amazon AWS
5. MySql
6. PHP + Apache server

ANDROID TOOLS USED

1. ImageSlider
2. StaggeredGridLayout - RecyclerView
3. CardView
4. ChipView
5. Picasso

FUTURE WORK

1. The payment processing API can be added to make the payments within app and the home feed logic can be improved to show the recommendations instead of the tags.
2. The app can be deployed in the Play Store if the above changes are done.

RESOURCES

1. https://github.com/phanindrakannaji/PicTag
2. https://drive.google.com/open?id=0B35v6hrvHAyxbXlON2RMMEQwQkk

REFERENCES

1. http://frogermcs.github.io/InstaMaterial-concept-part-6-user-profile
2. https://github.com/Plumillon/ChipView
3. https://developer.android.com/reference/android/support/v7/widget/StaggeredGridLayoutManager.html
4. https://github.com/daimajia/AndroidImageSlider