Snappat

Team
11612110 王森
11612706赵博弘
11612715王泽林
11612126 李可明
11612717任涛
11611310陈德缘

APP Introduction

- Our project is a novel photo social application by solving puzzles.

- A puzzle is a photo with labels. Users can public a puzzle by taking a photo, and our application will perform object detection, thus attaching several labels to this photo.

- Once a puzzle has been published, users can solve this puzzle accidentally by taking similar photos with same labels. Also, object detection is used in labeling the photos.
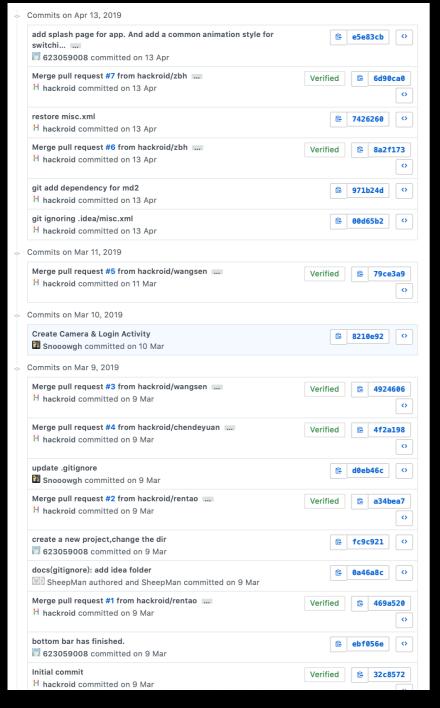
Feature

- Login/Register With Phone

- Object Recognition/Scan

- Android View Pages: Home/Notify/Mine; Publish/Scan/Scan Result

TimeLine

Week No.	Plan/Feature
Week 4~9	Project launch/Base Project build
Week 10	Object Scan&Recognization
Week 11	Back End/User System
Week 12	Treasure Publish
Week 13	Treasure Discover
Week 14	Home Page: Treasure show
Week 15	Mine Page/User Login

Github history

Commits on Apr 13, 2019

add splash page for app. And add a common animation style for switchi... e5e83cb
623059008 committed on 13 Apr

Merge pull request #7 from hackroid/zbh ... Verified 6d90ca0
hackroid committed on 13 Apr

restore misc.xml 7426260
hackroid committed on 13 Apr

Merge pull request #6 from hackroid/zbh ... Verified 8a2f173
hackroid committed on 13 Apr

git add dependency for md2 971b24d
hackroid committed on 13 Apr

git ignoring .idea/misc.xml 00d65b2
hackroid committed on 13 Apr

Commits on Mar 11, 2019

Merge pull request #5 from hackroid/wangsen ... Verified 79ce3a9
hackroid committed on 11 Mar

Commits on Mar 10, 2019

Create Camera & Login Activity 8210e92
Snooowgh committed on 10 Mar

Commits on Mar 9, 2019

Merge pull request #3 from hackroid/wangsen ... Verified 4924606
hackroid committed on 9 Mar

Merge pull request #4 from hackroid/chendeyuan ... Verified 4f2a198
hackroid committed on 9 Mar

update .gitignore d0eb46c
Snooowgh committed on 9 Mar

Merge pull request #2 from hackroid/rentao ... Verified a34bea7
hackroid committed on 9 Mar

create a new project,change the dir fc9c921
623059008 committed on 9 Mar

docs(gitignore): add idea folder 0a46a8c
SheepMan authored and SheepMan committed on 9 Mar

Merge pull request #1 from hackroid/rentao ... Verified 469a520
hackroid committed on 9 Mar

bottom bar has finished. ebf056e
623059008 committed on 9 Mar

Initial commit Verified 32c8572
hackroid committed on 9 Mar

---

finish all javadoc and util test; finish report for version 2.0 34c8467
William-WZL committed 11 days ago

去除了一个高危bug，登录后获取信息可能失败会无限递归注册 7635272
623059008 committed 11 days ago

解决了后端交互数据结构的bug 5107dd3
623059008 committed 11 days ago

add more test b674f47
William-WZL committed 11 days ago

Merge pull request #46 from hackroid/zbh Verified 42ddb10
hackroid committed 11 days ago

png file restore e768e66
hackroid committed 11 days ago

Merge pull request #45 from hackroid/revert-44-revert-43-wangsen ... Verified c845776
hackroid committed 11 days ago

Revert "Revert "Wangsen"" Verified 6f01fe8
hackroid committed 11 days ago

Merge pull request #44 from hackroid/revert-43-wangsen ... Verified db594c8
hackroid committed 11 days ago

Revert "Wangsen" Verified 891caf7
hackroid committed 11 days ago

Merge pull request #43 from hackroid/wangsen ... Verified aac3e56
hackroid committed 11 days ago

merge b3b543d
Snooowgh committed 11 days ago

fix no icon 07b28bd
Snooowgh committed 11 days ago

Merge pull request #41 from hackroid/tmp ... Verified 2c79efc
hackroid committed 11 days ago

removing fucking vscode d70469c
hackroid committed 11 days ago

Merge pull request #40 from hackroid/zbh Verified 287b669
hackroid committed 11 days ago

merge zbh master 4125e89
hackroid committed 11 days ago

ignoring fucking vscode 2b495f1
hackroid committed 11 days ago

zbh merge master f777683
hackroid committed 11 days ago

homofragment top bar design 29c3b41
hackroid committed 11 days ago

Commits on May 24, 2019

Merge pull request #59 from hackroid/cdy Verified ed69cd6
hackroid committed 35 minutes ago

Merge branch 'master' into cdy Verified c8f1764
hackroid committed 36 minutes ago

res 88e6601
sheepmanchen committed 43 minutes ago

Merge pull request #62 from hackroid/zbh Verified 07ef696
hackroid committed an hour ago

Merge pull request #60 from hackroid/wangzelin ... Verified 2c0c66b
hackroid committed an hour ago

Merge pull request #61 from hackroid/wangsen ... Verified 5f42bfb
hackroid committed an hour ago

icon change 8a9714a
Snooowgh committed an hour ago

add javadoc for HomeFragment 9a9fe1e
hackroid committed an hour ago

Merge branch 'master' into cdy Verified 1e40045
hackroid committed an hour ago

add doc and more test 7371779
William-WZL committed an hour ago

finish scan match mestery aea74bf
sheepmanchen committed an hour ago

Merge pull request #58 from hackroid/wangsen ... Verified d5a3f17
hackroid committed 2 hours ago

scan result page 98b8375
Snooowgh committed 2 hours ago

fix scan bug c542de3
Snooowgh committed 10 hours ago

Merge pull request #56 from hackroid/wangzelin ... Verified b10507f
hackroid committed 11 hours ago

Merge branch 'master' into wangzelin Verified c748817
hackroid committed 11 hours ago

Merge pull request #57 from hackroid/zbh ... Verified ee37b3c
hackroid committed 11 hours ago

main page refresh data 6424359
hackroid committed 11 hours ago

finish javadoc except mine, home and some of camera 9310634
William-WZL committed 22 hours ago

FrameWork

- "MVP" design model

  - Friendly for team work

  - Easy for integration

  - Elegant project structure

Library

- HiPermission : more friendly permission request

- Tensorflow Lite : easy to implement ML model

- Qmui : better UI

- OkHttp : useful network request tools

Backend Technique

- ThinkJS

- Mysql : MySQL is still the most used and preferred open source database. Many companies, unicorns, and today's world biggest online companies like Facebook, Twitter, and Booking.com chose to rely on MySQL.

- Nginx: Nginx is an HTTP and reverse proxy server, a mail proxy server, and a generic TCP/UDP proxy server.

- Istanbul Nyc: Istanbul instruments your ES5 and ES2015+ JavaScript code with line counters, so that you can track how well your unit-tests exercise your codebase. The nyc command-line-client for Istanbul works well with most JavaScript testing frameworks: tap, mocha, AVA, etc.

- AVA: AVA is a test runner for Node.js with a concise API, detailed error output, embrace of new language features and process isolation that let you write tests more effectively. So you can ship more awesome code.

- ApiDoc: apiDoc creates a documentation from API annotations in your source code.

Classifier model: SSD + MobileNets

- ssd: single shot detector

- 1. detecting objects in images using a single deep neural network

- 2. discretizes the output space of bounding boxes into a set of default boxes over different aspect ratios and scales per feature map location.

- MobileNets: proposal by Google, a network design for embedding equiments

- 1. MobileNets are based on a streamlined architecture that uses depth-wise separable convolutions to build light weight deep neural networks

- 2. hyper-parameters :

- width multiplier

- resolution multiplier : input resolution

- These allow the model builder to choose the right sized model for their application based on the constraints of the problem.

- Balance delay and accuracy.

- Training data: COCO

Login/Register

Publish

Discover

Personal Page

用户名: 17620412037

电话: 17620412037

简介:这个人很懒,什么都没写

金币:18997   关注你的人:0

我的谜题

我的解密

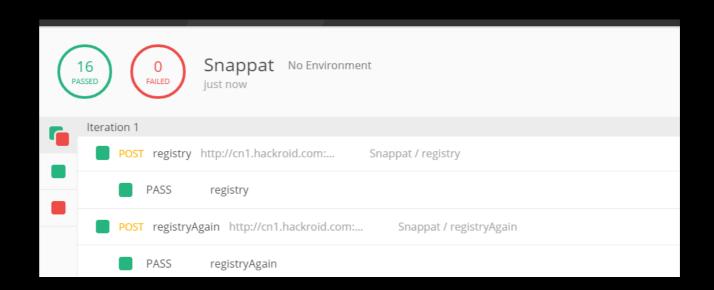我的信息

主页   通知   我

Test

- backend: AVA -- a test runner for Node.js with a concise API, detailed error output, embrace of new language features and process isolation that let you write tests more effectively

- HTTP API: Postman – **Postman** is the only complete API development environment, and flexibly integrates with the software development cycle

- AndroidTest and static analyse: Junit, espresso

Test

- backend:

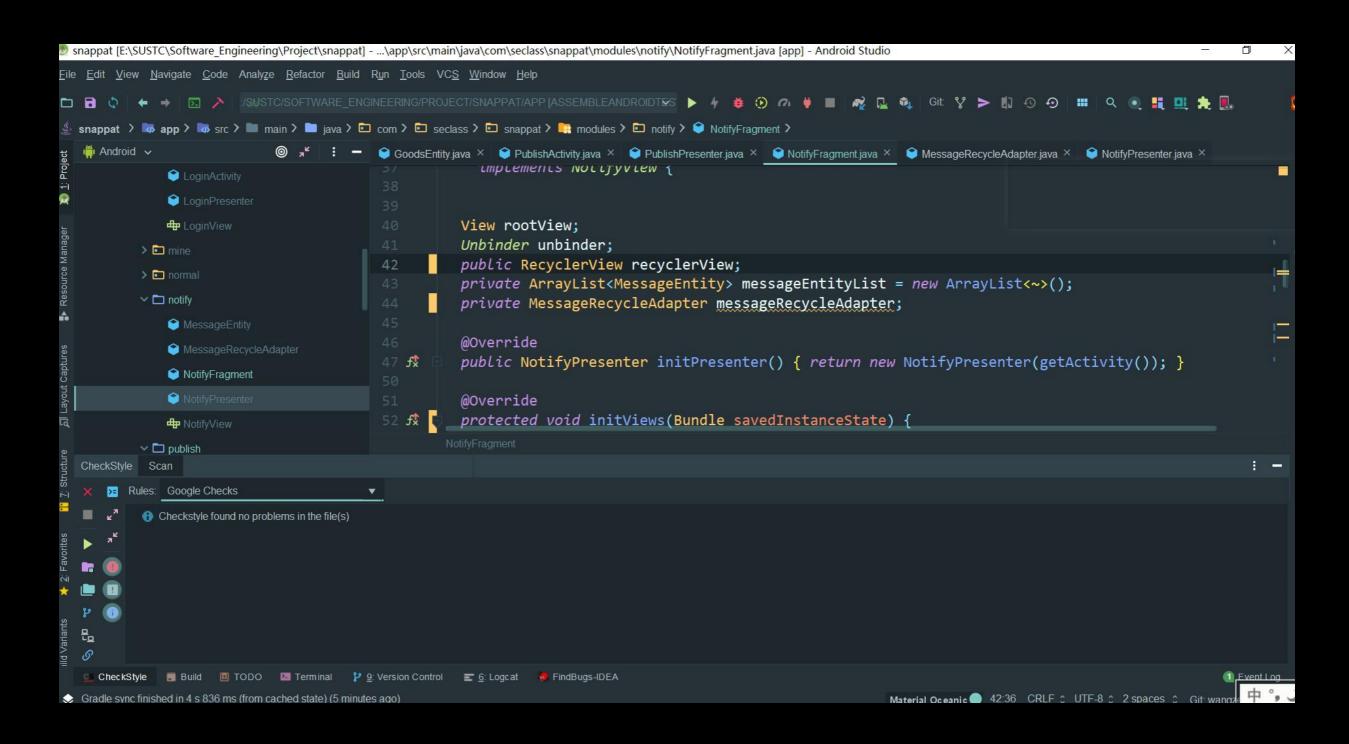| File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	4.48	0	0	4.5	
base.js	100	100	0	100	
index.js	66.67	100	0	66.67	5
registry.js	7.14	0	0	7.14	... 46,48,49,50,63
user.js	2.37	0	0	2.38	... 95,401,402,406

- HTTP API:

- AndroidTest and static analyse: do UI test for most active which can be test

static analysis

Results demonstrating

- know strangers

- be familiar with friends:

- kill time

- find star in daily life

Conclusions

We had implement most part of feature we designed in first report, except some UI and some detail function.

Future Work

- Lessons:

  - Better framework will give more help to development

  - Frequently discuss will help to development

  - Better division of work will help to development

- Difficult:

  - Photo recognize

  - UI design

Future Work

- What do you wish you could have done:

  - Better UI

  - Leave message and Like

- How could your project be extended :

  - Implement more feature and detail

  - Do better UI