Camera

海军陆战队第一师

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CONTENTS

- Introduction of main screen
- Timeline
- Version histories in GitHub
- Important features
- Test
- Static analysis tools
- User story
- Conclusions
- Future work

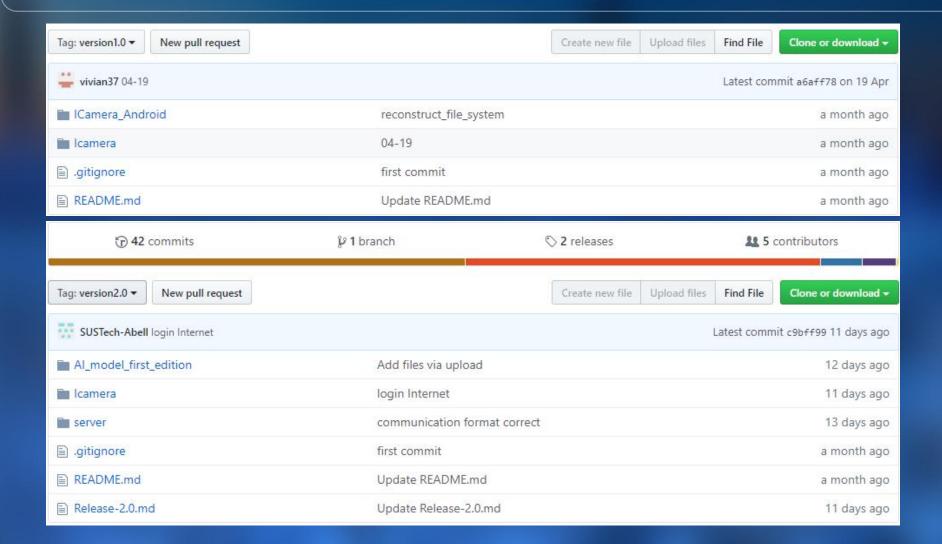
Introduction of main screen



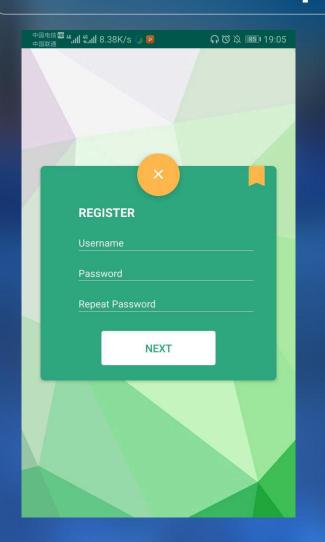
Timeline

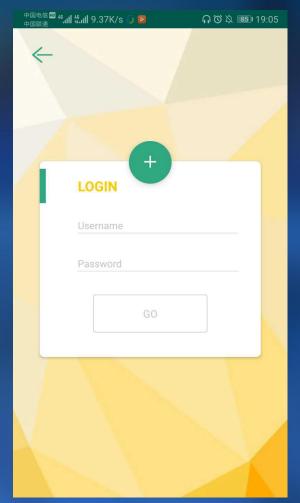
Week	Features
Week 10	Taking photo, getting into album, sharing to QQ function
Week 11	Machine learning theory study, and initial implementaion
Week 12	Basic UI for Machine learning functions and other paramout functions
Week 13	Change ML functions from computer platform to tflite
Week 14	Test and write down final report
Week 15	Prepare for presentation of project

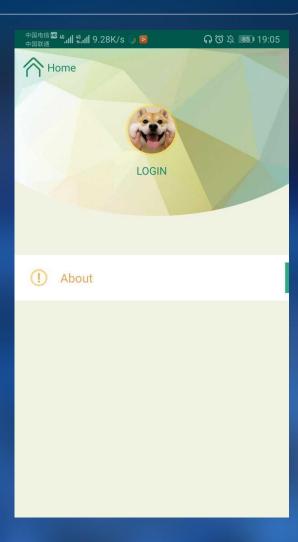
Version histories in GitHub



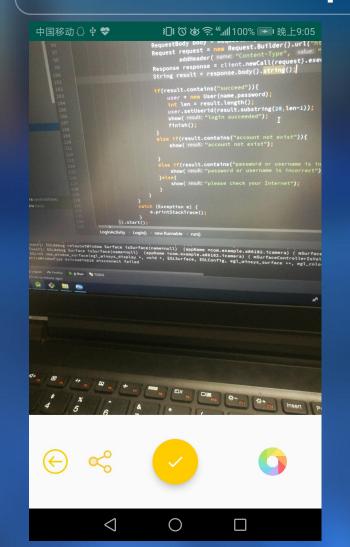
Important features







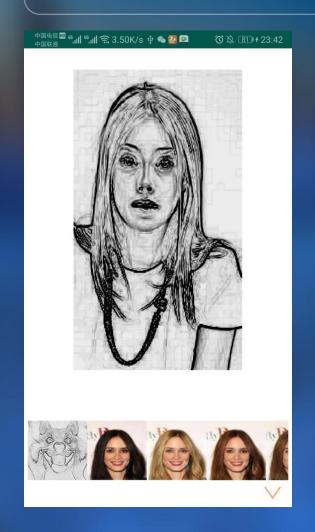
Important features







Important features

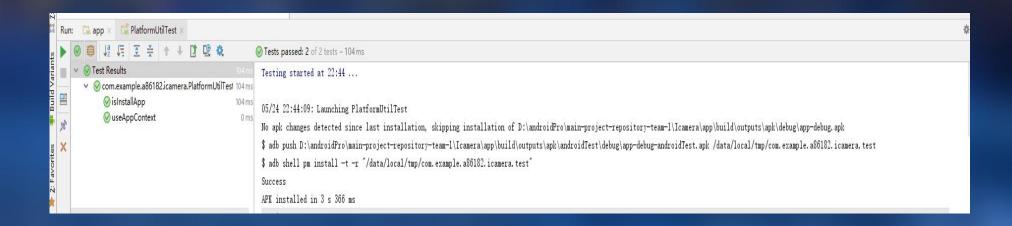






Test

Andriod part



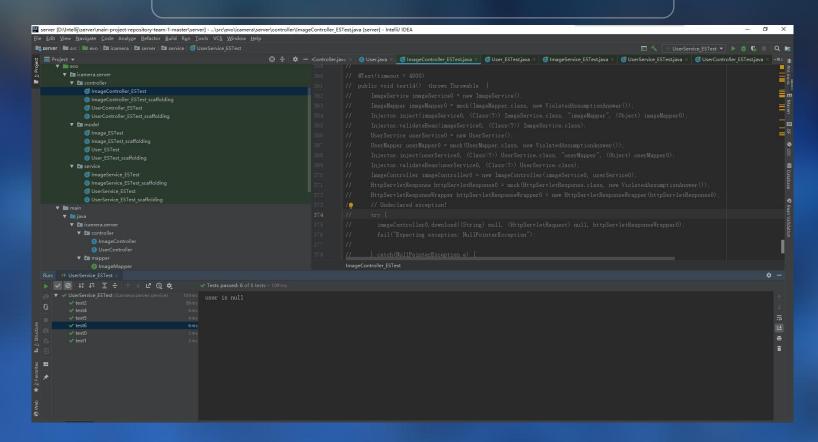
Test

Al model part

```
▼ Im StarGAN-Tensorflow-ma
                       from unittest import TestCase
 ▶ ■ assests
 ▶ 🖿 checkpoint
 ▶ ■ dataset
                  ▶ 🖿 logs
                           def test_main(self):
 results
                              argument = parse_args()[1]
  ▶ a samples
   gitignore
   🚜 download.py
                           def check_args(self):
                              argument = check_args("test")[1]
   main.py
                               self.assertEqual(argument, 0)
   🚜 ops.py
                           def check_output(self):
   StarGAN.py
   test_main.py
   👸 utils.py
 ► ✓ Ø 15 17 E ₹ ↑ ↓
                       ĽQ¢
                                 1ms Testing started at 21:02 ...
                                     Launching unittests with arguments python -m unittest test_main.TestMain in D:\GLOW_CHANGE\StartGan_Model\StarGAN-Tensorflow-master
                                    Process finished with exit code 0
```

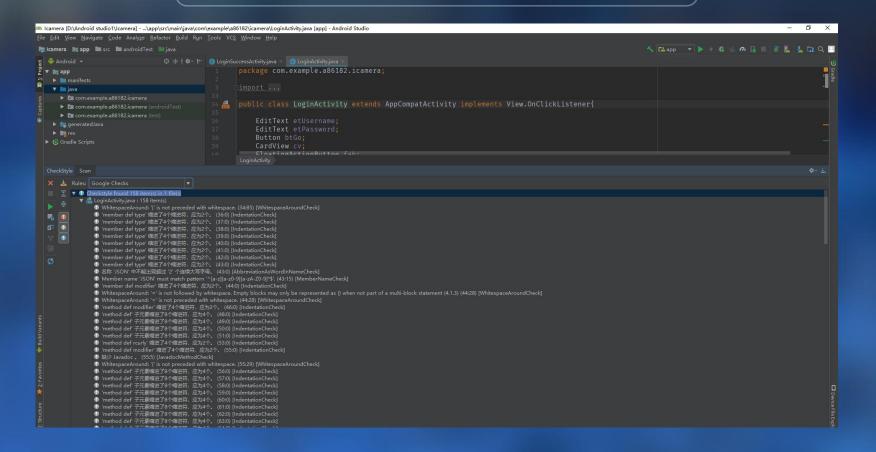
Test

Server test



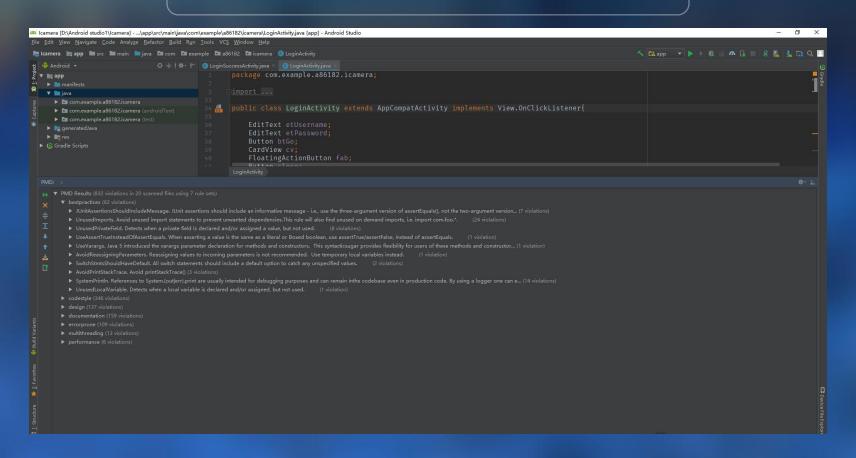
Static analysis tools

Checkstyle



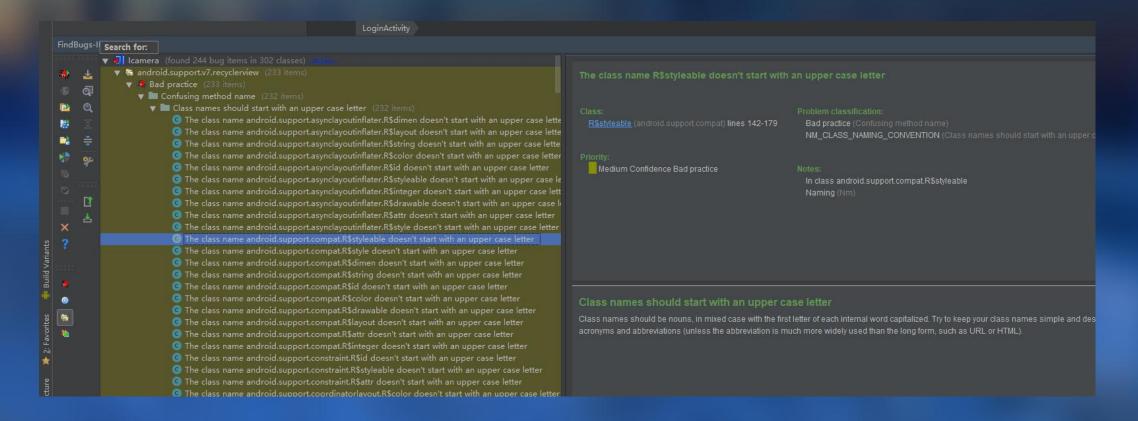
Static analysis tools

PMD



Static analysis tools

FindBugs



Use case

First a user need register an account with specific username and password. The username should not be identical to another exist username. Then the user can login his account with his username and password.

After login, user can take a picture or choose a picture from albm, and choose one to change :hair color, age, gender and sketch. After user confirm, the origin picture will be send to server, and the process result will be return to client. User can immediately see the result.

What lessons did you learn from your project?

1

We learned how to use github to control the version of our project code 2

We cooperated with each other in this Software Engineering Android project. We learned how to work in a team

3

We learned the whole process in APP development, including Analysis, Design, Testing and so on

What was difficult?

1

We are not familiar with the operation of HTTP, and this lead to difficulty in sending and receiving message

2

Our Algorithm
was limited with
our performance
of our computer,
and we had to
quit some
features because
of this

3

The test of our Andriod project is not easy to complete, and it consumes much time of ours

What do you wish you could have done?

1

We wish that we could have used JWT for message transmission instead of passing it directly

2

We wish that we could have written our method implementation and method invocation in different files

3

We wish that we could have completed better code encapsulation

How could your project be extended?

1

We hope a better
Al model to
improve the user
experience

2

We hope a better way of message transmission to improve effectiveness and efficiency

3

We hope a better server that can support our Al model and Al algorithm

THANKS