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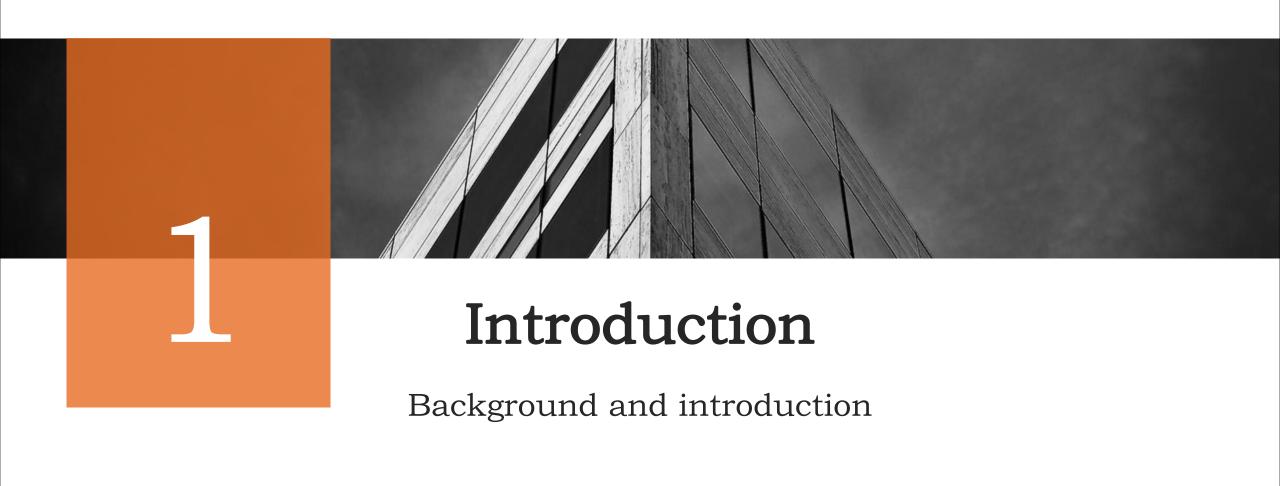
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5. Statical Analysis

Analysis

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Conclusion and future work



1.1Background

Nowadays, plenty of news and information content platforms are full of junk news and uncomfortable advertisement, users are losing the comfort of the experience. Considering that, We are committed to solving the problem of poor user experience. Within our app, users can enjoy the simplest news, no advertisement and get the news which is their preferences.

1.2 Brief Introduction

Our app will select different news for users according to the browsing history and users's signals of "like", "dislike". When users press the "THREE NEWS" button, it will recommand three news, users can see the details by choosing the news, or users can get specific news using search.

工程师开发使用中、点击可关闭

≥♥ 叁闻

Q

正确看待当前经济发展新特点新态 垫

当前,我国经济发展面临着内外环境重大变化带来的新矛盾、新挑战,但我国发展仍处于重要战略机遇期,拥有...

中国是人工智能专利布局最多的国 家

近日,中国新一代人工智能发展战略研究院发布了《中国新一代人工智能科技产业发展报告 (2019)》和《...

职场不是秀场 形式主义加班拖垮年 轻人

"形式主义加班"戳中了这届年轻人的痛点。

太赫兹波

THREE NEWS 未来战争

Timeline

Time arrangement

2.1 Timeline

Week	Features		
week 10	News Details		
week 11	News "like", "unlike", "bookmark" features.		
week 12	Spider for news.		
week 13	News classification, news theme collecting.		
week 14	Recommendation Algorithm.		
week 15	Remain features.		

2.2 Version Histories

♦ 1.0
• b30a1e5

Version_{1.0}

MacOrey released this on 20 Apr · 55 commits to master since this release

2019/4/20

- Implements Register/Login feature
- Implements Share feature
- Implements Camera feature

Assets 2



Latest release

version-2.0

II Sustechzjh released this 11 days ago ⋅ 32 commits to master since this release

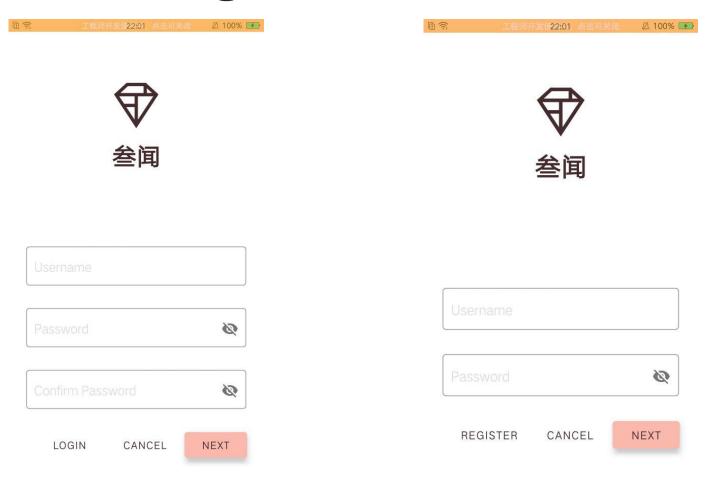
Release version 2.0 implements:

- 1. spider for news
- 2. like and dislike function
- 3. bookmark function

Features

Functions of our app

3.1 Log in and Register



3.2 News Details





正确看待当前经济发展新特点 新态势

2019年05月23日08:09 来源: 中国经济网

原标题:正确看待当前经济发展新特点新态势

当前,我国经济发展面临着内外环境 重大变化带来的新矛盾、新挑战,但我国 发展仍处于重要战略机遇期,拥有足够的 韧性、巨大的潜力和不断迸发的创新活力。把握经济发展大趋势,抓住我国经济 发展中的根本性、全局性问题,要处理好 短期与中长期、内需与外需、开放和改革 的关系,以扩大开放和深化改革释放发展 潜力和市场活力,由此赢得主动、赢得未 来。

← ☆ ♥ ☆ **♦**

When you select the news you can see the detail of the news.

3.3 Search for news



取消 Q请输入搜索内容 彩票开奖结果 百度市值跌破400亿 女星与出租司机冲突 顾年时向杨洋道歉 栗蓉磅蛋糕做法大全 王濛任教练组组长 山魈是什么动物 乐视董事长离职 奥迪女掌掴女童 广州车位只售不租 怎么腌制芥菜 熬出好猪油教学视频 龙卷风袭击美国 小米副总裁被拘留

If you want to search some spercific news, you can press the research button to get what you want.



3.4 Like and dislike



经济形势理性看: 抓住用好新 形势下的新机遇

林兆木

2019年05月23日07:32 来源: 人民网 - 人民日报

- ■全球新一轮科技革命和产业变革蓬勃兴起,与我国加快转变经济发展方式形成历史性交汇,我国完全有条件构建起推动高质量发展和面向未来的现代化经济结构。
- ■美国严格限制向我国出口技术,虽然会给我们带来困难,但我国已具备进一步提升创新能力的基础和条件,可以发挥制度优势和市场优势,在关键核心技术创新上取得突破。





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← ₺ ┡ ☆ ♦

If you like or dislike the news, you can press the "like" or "dislike" button, then it will affect the news we represent.

3.5 & 3.6 Collect and night mode



经济形势理性看:抓住用好新 形势下的新机遇

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If you want to collect some news, the "star" button will help you do this.

By the way, we divise the "night mode" for users to read without light.

3.7 Share



Of course, you can share the news to your friends or in moment if you like.

3.8 Recommand



Here we implement our Tensorflow Lite Framework for recommanding news

The main step of recommanding:

- 1) Two of the three news are recommanded by the tags which user likes
- 2) One of the three news is recommanded by NLP and Supervised Learning Model implemented in Tensorflow Lite

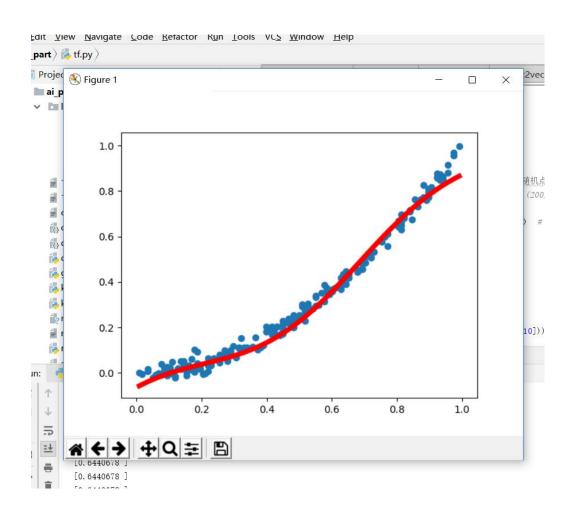
3.8 Recommand

news_id	label	news_url	news_title	introduction	feature
1	财经	http://finance.people.co	李古母主持	新华社北京5月22日电国务院总理李克碣5	-0.00166699
2	财经	http://finance.people.co	中国三大航	新华社北京5月22日电(记者ネ中配、田建	0.0424958
3	财经	http://finance.people.co	新小杰,向	新业杰,新技术,把一个新产业从无到有	-0.487658
4	财经	http://finance.people.co	加征关税是	5月22日,北京大学国家发展研究院举办"中。	. 0.156239
5	财经	http://finance.people.co	外交部: 希	本报北京5月22日电??(记者王骁波)针对	0.0481549
6	财经	http://finance.people.co	网络提谏隆	人民网北京5月23日电 (朱江) 与5年前相	0.43807
7	财经	http://finance.people.co	两部门明确	新华社北京5月22日电(记者由铖、刘红霞	0.0286329
8	财经	http://finance.people.co	起底汽车会	诉用,汽车消费矫械投诉问题此起彼伏。	0.287079
9	财经	http://finance.people.co	最高松:民	利用虎假诉讼查取国有资产、转移个人财	0.217036
10	财经	http://finance.people.co	交诵新业杰	本据电??(记者刘志强)近年来,网络稀约。	0.360229
11	财经	http://finance.people.co	制造企业借	制浩企业借助"反向完制"洞察直实消弗季求。	-0.46934
12	财经	http://finance.people.co	下周成品油	本轮计价周期内,国际原油价格整体呈现	-0.0680828
13	财经	http://finance.people.co	讲口药加税	随着6月1月0时我国对美部分商品提高加征	-0.281244
14	时形	http://politics.people.co	习近平江西	初夏时节,鲦鄅大地—派欣欣向荣。中共	0.368509
15	时形	http://politics.people.co	贯彻新发展	我国仍外干发展的重要战略机遇期,但而	0.436064
16	时形	http://politics.people.co	"耿玄模式"有	下年4占,汀苏省宿迁市宿城区欧车镇迎来。	0.210854
17	时形	http://politics.people.co	锻造人才方	"全而提高办学盲人水平,为强军事业提供	-0.341984
18	时形	http://politics.people.co	李古母主持	新华社北京5月22日由??国务院总理李克强5。	0.00105893
19	时形	http://politics.people.co	激发内生动	近日,中央全面依法治国委员会办公室印	-0.333222
20	时形	http://politics.people.co	新时代党员	诉日,中共中央印发了《中国共产党党员	-0.135377
21	日寸形	http://politics.people.co	亚洲 文明 4	塑平海阔,千帆竞发。十五世纪初,郑和	0.288771
22	日寸形	http://politics.people.co	中央文明办	本报重庆5月22日电??(记者汀川)5月22日.	0.230568
23	日寸形	http://politics.people.co	加强人大监	日前,全国人大党委会通讨了《十三届全	-0.3814
24	时形	http://politics.people.co	重视青少年	吉少年的心理健康和身体健康同等重要。	-0.43017
25	日寸形	http://politics.people.co	当代表要常	前不久,徐萍夸成都——家街道办邀请,准	0.399924
26	时形	http://politics.people.co	常用发生室	为扫除脱贫攻坚战中的蹬碍,针对很多地	-0.0470678
27	日寸形	http://politics.people.co	王岐山与巴	本报北京5月23日电??(记者王迪)国家副	0.156172
28	84169	http://politics.people.co	习近平惦记	汶是—份特殊的他图:80双草鞋和—大—	0.0426844
29	日寸形	http://politics.people.co	提供更有针	新华社北京5月23日电??部署推进职业技能	0.246727

First, we implement the Doc2vec algorithm using gensim in Python

this can convert a news text into a vector with the size you want.

3.8 Recommand



Then, we implemented a non-linear regression by Tensorflow

We use the feature of former viewed news as the input,

and the model can get the next most wanted viewed news' feature by well trained learning model

Then we check it in our database to give the news id.

3.9 User information updating



You can update your user information.

which includes:

- 1. gender
- 2. occupation
- 3. birth year
- 4. User avatar

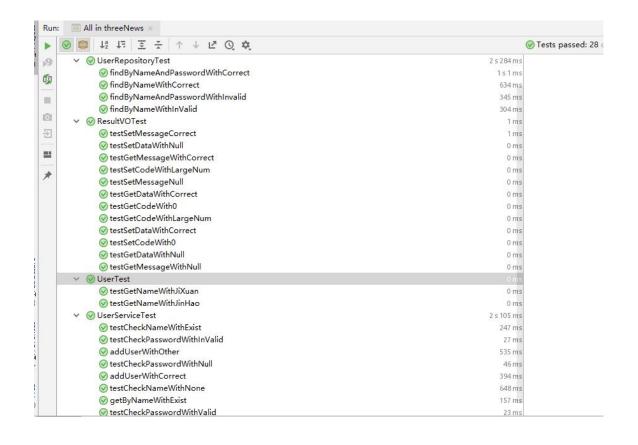


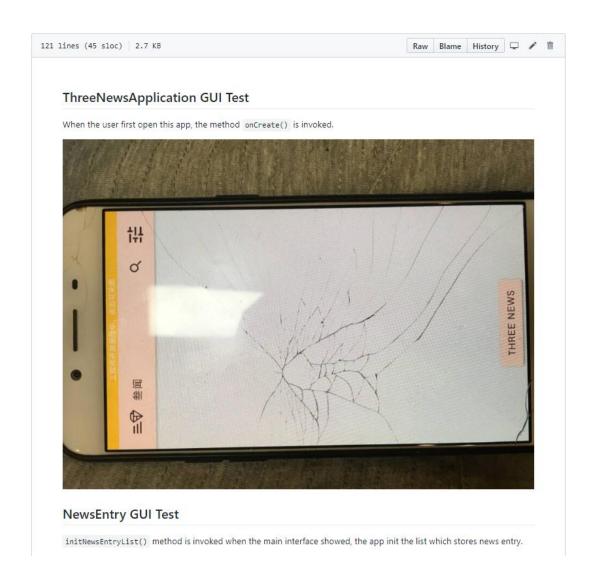
4.1 Test techniques

For testing, we only used unit test and scenario test.

- 1) Unit testing is testing of the smallest testable unit in software. Generally speaking, the meaning of unit in unit test should be determined according to the actual situation. For example, in C language, unit refers to a function, in Java, unit refers to a class, and in graphical software, it can refer to a window or a menu.
- 2) Scenario testing is a software testing activity that uses scenarios: hypothetical stories to help the tester work through a complex problem or test system. The ideal scenario test is a credible, complex, compelling or motivating story the outcome of which is easy to evaluate

4.2 Number of tests





Scenario test in Test.md.

Static Analysis

5.1 Static analysis tools



Applying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapplying rule set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapped and the set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapped and the set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapped and the set filter for exclusions: The rule "UncommentedEmptyMethod" has been renamed to "UncommentedEmptyMethodBody". Please chapped and the set filter for exclusions and the set filter for exc

5.2 Static analysis tools

FindBugs Report

Project Information

Project:

FindBugs version: 3.0.1

Code analyzed:

G:\GitHub_Repository\main-project-repository-ooad\app\build\intermediates\javac\debug\compileDebugJavaWithJavac\classes

Metrics

10415 lines of code analyzed, in 286 classes, in 34 packages.

Metric	Total	Density*	
High Priority Warnings		0.00	
Medium Priority Warnings		0.00	
Total Warnings	0	0.00	

^{(*} Defects per Thousand lines of non-commenting source statements)

Contents

Details

Summary

Warning Type	Number
Total	0

Warnings

Click on a warning row to see full context information.

Details

5.3 Scenerios

• Whoever and whenever you want to read news you can use our app.

• Users with different kinds of occupations want to read different news, we have divised an occupation information to represent news more accurately.

• When people have sparse time, they can use our app for news reading

Conclusion and future work

6.1 Conclusion

We have implemented most of features we listed. But there are still a few features we didn't reach.

- Dialogue type news presentation: UI Acts likes talking with someone.
- Import a file: To upload avatar.

6.2 Future Work

- We have learnd test, static analysis, ui design, tensorflow during the project.
- Difficulties are different test scenarios, using some new techniques, beautiful ui design...
- We wish we could done the Avator and collection.
- We need bigger data set to train, and get a more accurate recommander. And there are still many problems in fragment.



Thanks For Listening!