

## 1. Introduction

This is an app to help the students to select courses in CQU. To achieve this goal, we need a powerful server on backend, as a crawler to pre-save all the courses into database, and serve the RESTFUL-API requests from android client. The server is based on node.js, express.js, and use mongodb as backend database.

## 2. Requirements

For the convenience of data parsing and networking, we import some libraries, like gson and okhttp, you can see the details in the build.gradle file.

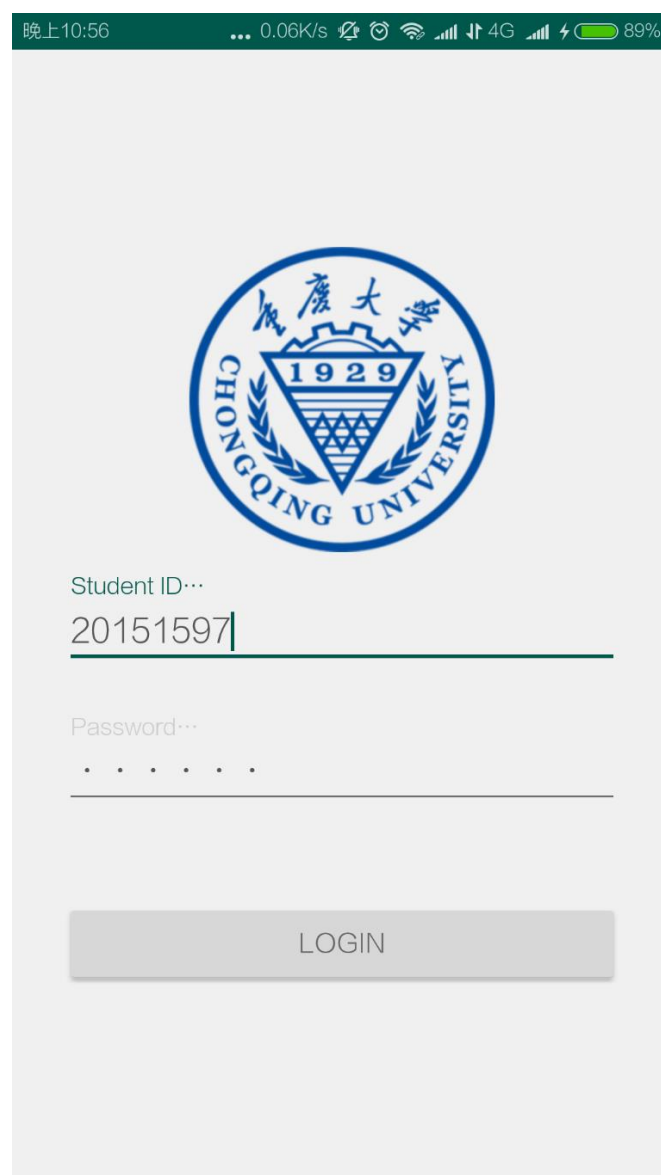
- AppCompat 28.0.0
- ConstraintLayout 1.1.3
- Design 28.0.0
- gson 2.8.5
- okhttp 3.13.1
- PersistantCookieJar 1.0.1

## 3. GetStarted

### 3.1 Login

Just simply type your student ID and password, you can access this app, and the client would validate them on server via https, which can ensure the security of password transformation.

For debugging, I have provided the account in the EditText already, the StudentID is 20151597, password is 237231. You can use this to login directly.

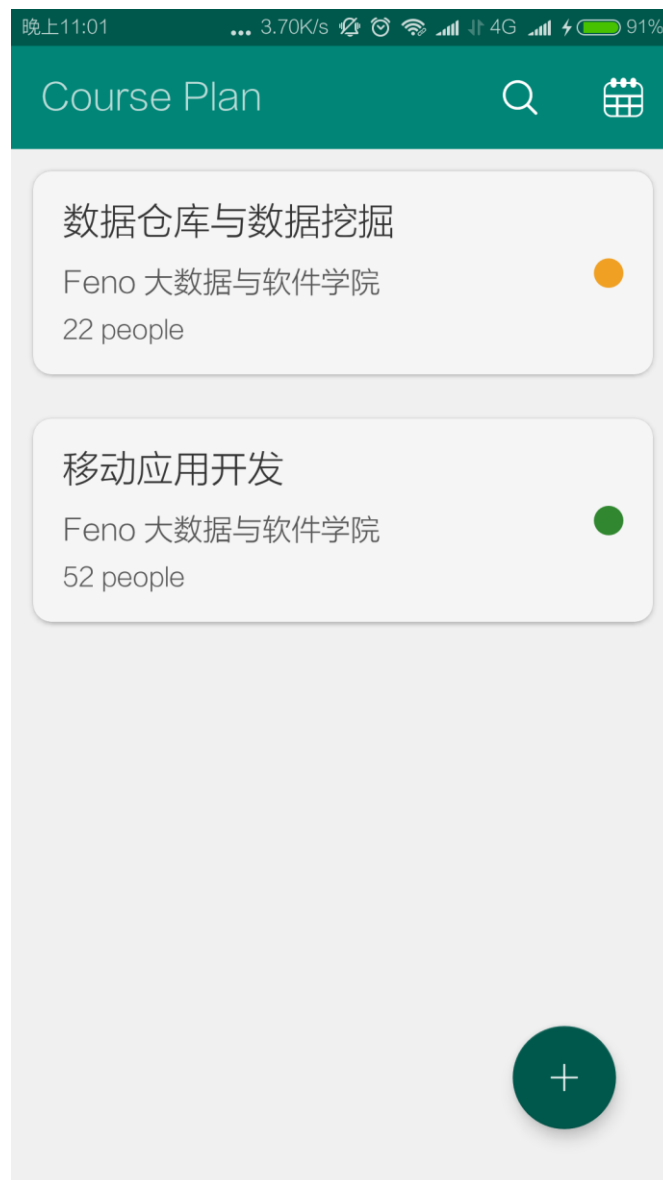


The screenshot displays the login interface of the Chongqing University app. At the top, the status bar shows the time as 10:56 PM, network speed at 0.06K/s, and battery level at 89%. The main screen features the Chongqing University logo, which includes the year 1929. Below the logo, there are two input fields: 'Student ID...' and 'Password...'. The 'Student ID' field contains the text '20151597'. The 'Password' field is masked with dots. A 'LOGIN' button is positioned below the password field.

### 3.2 Manage your course plan

For preparing to select courses, you have to make your course plan, which would be sync to server side, and help you automatically send select course requests on cloud.

Basicly, you can query, add and remove your course plans. Pull down to query and refresh RecyclerView, click FloatingActionButton to add a new course, and long click course item to remove it.



### 3.3 Search courses

To add a new course plan, you can freely search courses by keywords. The keywords can be course name, teacher name, academy name and the course code. Through searching, you can find the course you interested in in one click.

For example, we search the teacher name Feno, and all the related courses would be listed below. Simply check the courses you want, and click the OK FAB, you will add them into your course plan! Fantastic!



### 3.4 View the schedule of your course plan

For a more sensitive view of your course plan, you can see the schedule table view. Just click the right top button on menu, you get it!

It is implemented by ViewPager and PagerFragment, so you can swipe left and right to switch between weeks, hopefully it provides some good UX : )



Mon	Tue	Wed	Thu	Fri	Sat	Sun
D1318 软件项目管理	D1211 主题英语阅读					
		D1320 软件项目管理		D1339 移动应用开发		
	D1434 移动应用开发					

### 3.5 Explore courses

Except searching, you can explore more course information like the classroom, credit, teach hours and so on, which may help you make the course plan choices.

Click the course item to see the detail of it. So as the teacher name.

And note that all the green and blue tags are clickable, and would guide you to search fragment to explore more!



Have fun! See you on Friday.