

# COMP7506 - CourseSchedule

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## 1 Background Research

### 1.1 Category & Function Synopsis

CourseSchedule is an educational Android application that aims to make HKU students get their course schedule easier.

In this App, students can get their course schedule once they logged in with right portal account, and it's the main function of this App. With this App, users can view their course with different colors. Meanwhile, this App also provides the function of GPA calculator, add the events to calendar, add notes, check the exam time, etc.

### 1.2 Market Analysis

There are some similar educational App in the market, have different features and functions, but most of them only provide the course schedule of **mainland universities**.

HKU as an international university has thousands of students all over the world, and they all need to view the course information whenever they go to school. Usually, students get the course information by visiting the HKU website. For CS postgraduate programme students, they need to view the course information via CS intranet, which is more difficult for the App that posted in the App store to get.

Based on this fact and considering the inconvenience of checking the course information of CS postgraduate programme students in HKU, we designed this App, and we believe that this App will have a considerable market. With this App, students will be able to check their course schedule more easier, and they only need to log in this App only once, this is one of its conveniences.

Besides, this App provides the function of checking the exam timetable, which transform the big exam timetable which shows all the exam that faculty holds into the specific exam timetable of users themselves. And along with the timetable, it also comments with the notes given by the office, such as "bring the calculator", "bring A4 paper sheet". Thus users do not need to check the informs one by one, this is another of its conveniences.

With these main features, students of CS postgraduate programme may have a motivation to download this App, and with the download, they will find this App have more useful functions like GPA calculator, calendar adding and making notes. These functions will help users to schedule their time more easier and have benefits on their study, which are attractive for students.

Even constrain this App's target users to the student of CS postgraduate programme, it will have a "big" market based on the consideration of the time cost in its developing. This App will have a considerable market because of its own useful functions and the fact that the market did not provides any similar Apps that can applied out of mainland.

Once we got more supports by other departments, this App may be popular in the whole school of HKU.

## 1.3 Similar Apps

### 1.3.1 QSC



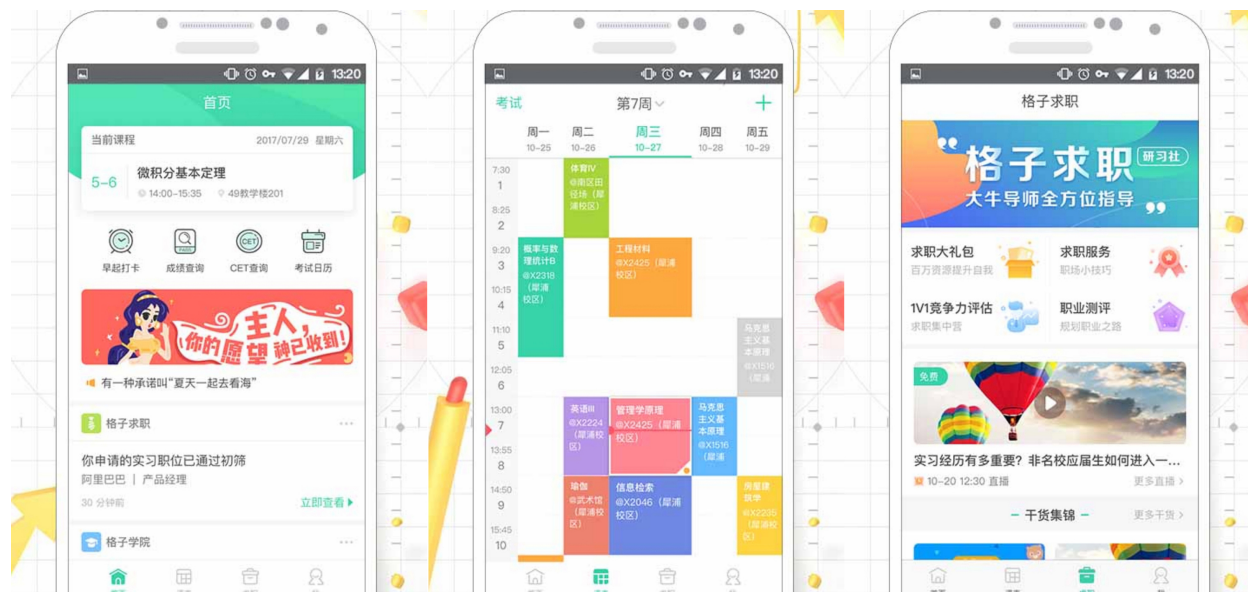
#### i) Main Features

- Show course schedule in days and weeks, with exam countdown.
- Users can add the calendar to this App.
- Review users' GPA.
- Check the useful website.

#### ii) Short-Comings / Possible Improvements

- Only provide the service for Zhejiang University.
- All the course looks similar.
- Other web information are just copy to the App.

### 1.3.2 CourseGrid



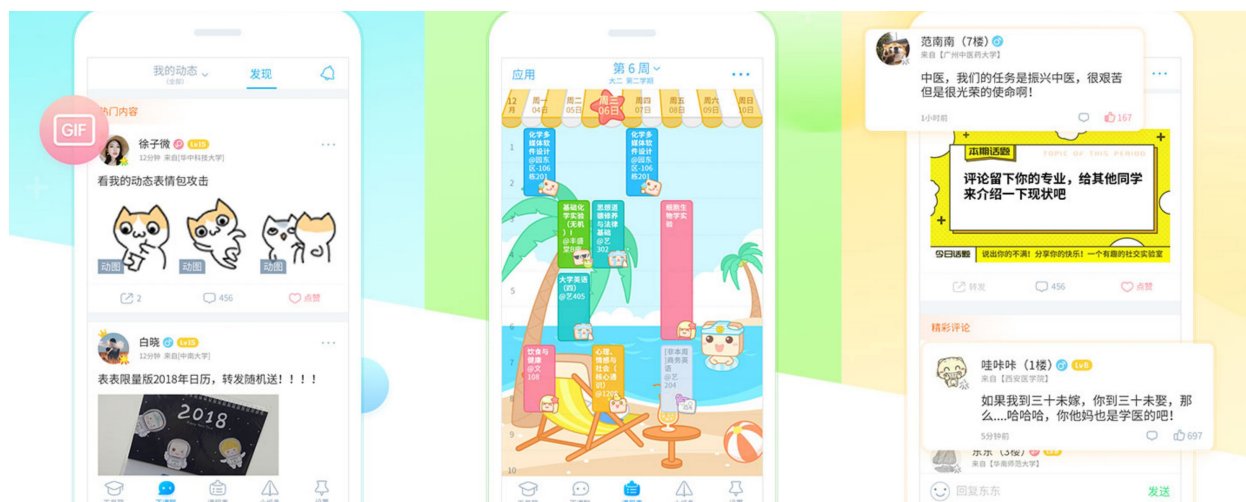
### i) Main Features

- Quick access to class schedules and docking of more than 1,500 university educational systems.
- A collection of practical tools, such as CET scores checking.
- Combined with ZAKER News, providing quality reading content.
- Provide a job plaza.

### ii) Short-Comings / Possible Improvements

- Too many useless information.
- Cannot add other schedules or make notes.
- Cannot provide the GPA review.
- Cannot access the course schedule of HKU.

## 1.3.3 SuperCurriculum



### i) Main Features

- Quick access to class schedules.
- A collection of practical tools, such as CET scores checking.
- Provide a alumni platform.

### ii) Short-Comings / Possible Improvements

- Too many useless information, like a social tool.
- Cannot add other schedules or make notes.
- Cannot access the course schedule of HKU.

## 2 App Features

### a) Succinct UI Desgin

We make the Ui succinct by only show

### b) Colorful View

### 3 Contributions

ZHANG Kai	Main activity with layout/main.xml
	Switch fragment functions
	Fragment of homepage, corresponding layout xml file
	Toolbar function and xml, bind toggle icon with drawer listener
	Custom ViewHolder implements Holder, implement automatic scrolling of pictures with ConvenientBann
	Complete the draft documentation, and Readme.md
WANG Dezhao	Fragment of basic info (fees, overview, schedule), corresponding layout xml files
	Fragment of about (faculty, about HKU), corresponding layout xml files
	Custom ExpandableListAdapter and MenuModel item, with list_group_child.xml/ list_group_header.xml, generate custom drawer controls
	View pager function, custom pager adapter
	Page view layout files including Programme Overview, Stream of Study, Selection of Courses, Dissertations
YAN Qiangyu	Fragment of news & events, corresponding layout xml files
	Custom loading view
	Custom card view of news and card view of events
	Multi-threaded operation when using Jsoup to scratch message from URL and parse HTML
	Update UI by using UIThread
	Make the video
	Review and complete the final documentation