

# User Manual

April 4, 2023

## 1 Environment Requirements

- Python 3.9
- Flask
- Taro
- React

## 2 Installation instructions

### 2.1 Back-end

Running "pip install -r back-end/requirements.txt" in terminal of folder "grp18".

### 2.2 Front-end

- 1.Download latest node.js version 18. You can go to download node.js in "<https://nodejs.org/en/download>".
- 2.Open a terminal and type "npm install -g yarn" to install the yarn package manager.
- 3.Enter "yarn global add @tarojs/cli" in the terminal to install the CLI.
- 4.From the terminal, go to the grp18/front\_end/mini\_program folder.
- 5.Running "npm i" to download node modules.
- 6.Download Weixin dev tool in "<https://developers.weixin.qq.com/miniprogram/en/dev/devtools/download.html>".

## 3 Running Wechat Mini-program

### 3.1 Back-end

From the terminal, go to the grp/back-end folder and run "flask run".

### 3.2 Front-end

- 1.From the terminal, go to the grp18/front\_end/mini\_program folder and run "npm run build:weapp --watch".
- 2.Import the project into WeChat Developer Tools to use it.

## 4 Wechat Mini-program User Manual

This software is run in the Wechat Mini-Program. The following is the step-by-step operation manual after entering the UNNCrawler mini program.

### 4.1 Getting Started

This section includes the details of registration, logging on process and how to change personal information and password.

#### 4.1.1 Login Page

This page is the first page the user enters when opening the Mini-program. It can jump to the main page, the registration page and the password retrieval page.

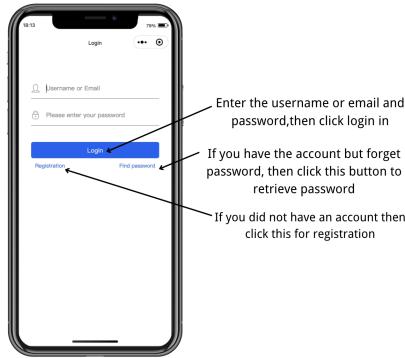


Figure 1: Login page

#### 4.1.2 Register Page

The following is an example of a Register Page. If you would like to create a new account, you can do so by clicking Register on the login page and the program will then jump to the registration page.

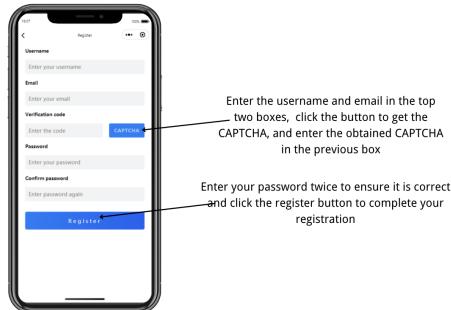


Figure 2: Register page

#### 4.1.3 Retrieve Page

If you click "forget the word" in the Login Page then the program will jump to retrieve page.

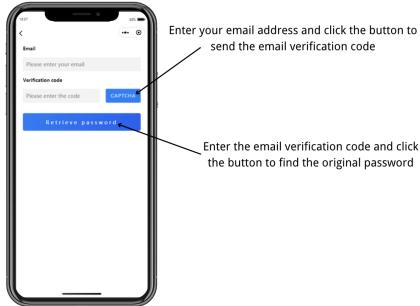


Figure 3: Retrieve page

## 4.2 Home Page

After the user has successfully logged into their account, the user is taken to the main part of the Mini-program. There are four sections in the main part: Academic Page, Bilibili Page, Sina News page and User Page.

### 4.2.1 Academic Page

Firstly, there is AcademicPage, where users can monitor thesis search keywords, either on Google Scholar, Bing Scholar or both sites.

In figure 4 you can add a new monitor by clicking on the "New monitor" button in the top left corner, the button in the top right corner indicates whether the monitor is currently active or not, and you can switch between sections in the tab bar in the following column.

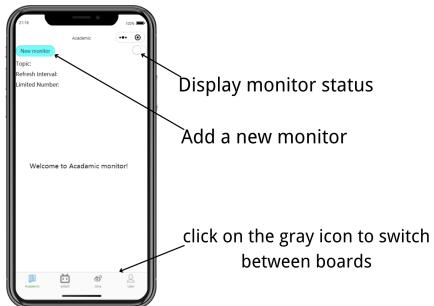


Figure 4: Academic page

When the user clicks on the New monitor button, the monitoring information will appear in the interface, as in figure 5. The user can select the sites to be monitored, select the topic to be monitored, limited numbers, and also can specifically adjust the refresh intervals, click the submit button to start monitoring, click close to cancel the creation of the latest monitor.

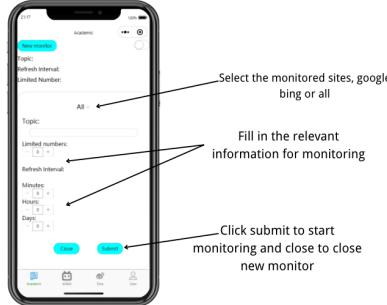


Figure 5: Overview of Academic monitor setting

When the user clicks submit, monitoring begins and the user will see the same page as in Figure 6, the status bar in the upper right corner becomes open, the new Monitor button in the upper left corner becomes edit monitor, the user can click on this button to modify the monitor related information, the main part of the page is the search results, the green arrow means that the user can click to download PDF. Users can also directly click on the paper they are interested in. As shown in Figure 7, users can click the Copyurl button to copy the link and then open it in the browser.

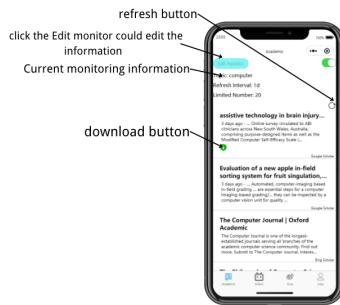


Figure 6: New monitor

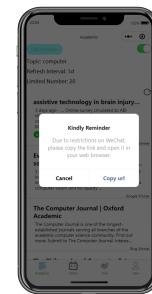


Figure 7: Copy url

#### 4.2.2 Bilibili Page

The Bilibili section is used in much the same way as Academic, except for the sorting of the search results. The button below the new monitor in figure 8 toggles the sorting of the search results and allows the user to choose between most clicked or latest posted. User can also click on the section of interest like figure 10 , to get the URL and copy the link to open it in the browser.



Figure 8: New monitor



Figure 9: Results display



Figure 10: Copyurl

#### 4.2.3 Sina News Page

The Sina section is mostly used in the same way as the academic section, except that the search results are sorted by time only, with the time of publication indicated in the bottom right hand corner of the search results as Figure 12, and the user can click directly on the text section to browse, and the details can be copied to the browser by clicking the copy url button like Figure 13.



Figure 11: News monitor



Figure 12: Results display



Figure 13: Results display

#### 4.2.4 User Page

In the user page, the user can perform a variety of actions, in order to view personal information, contact the developer, manual, settings and logout, as shown in Figure 14. And when the user clicks on the avatar, it can be switched to an avatar of the user's choice.

This is shown in Figure 15 when the user clicks on the personal column, they can view their personal information and directly change the information they want to change, and then click the confirm change button to save the changes.

This is shown in Figure 15 when users click on the Contact column, they can view information about the developer and contact the developer directly if they have questions about the project.

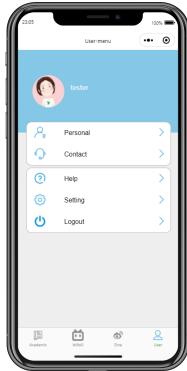


Figure 14: User Menu



Figure 15: Personal Page



Figure 16: Contact Page

This is shown in Figure 17 when the user clicks on the Help column, the user can view a short guide on the use of the program.

This is shown in Figure 18 when the user clicks the Settings column, they can change the account password and then click on the Confirm Change button to save the changes.

This is shown in Figure 19 when the user clicks the Logout column, a reminder will pop up, and the user can click confirm to log out of the account, or cancel to cancel the logout.



Figure 17: Help Page

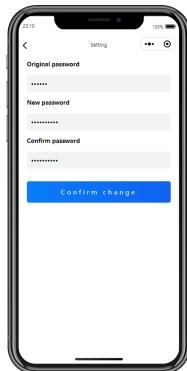


Figure 18: Change Page

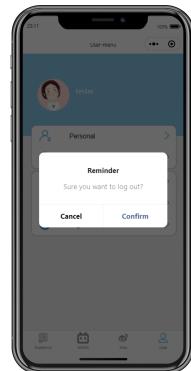


Figure 19: Logout Page