

Introduction:

Background:

With the development of Chinese economy and technology, more and more international students came to China for further education. Many international students want to get intuitive, systematic and comprehensive knowledge of Chinese universities. This project is a web app which contains the following functions: user login, voting for universities, Chinese universities' information searching, successful application cases display, user management, user authorization and summary charts presentation. We hope that our app could provide helpful information for international students who are planning to apply for Chinese universities.

Technology Stack:

Front-end:

React (react, react-redux, react-dom, react-router-dom, ...) ,

AntDesign (UI design),

echarts (JavaScript visualization tool used for creating charts),

Axios (Promise based HTTP client for the browser and node.js),

ES6, Less, webpack

Back-end:

node.js+mongodb (mongoose), first **express** framework is used to achieve all functions, then **koa2** framework is used to rewrite and refactor the existing code which improves the maintainability and running speed of the code.

Project Structure and Logic:

Users are divided into 4 classes in our app: visitor, VIP, manager and administrator (admin).

When the user hasn't logged in, it will be identified as visitor and it could visit the home page and university information page. If the user want to know more, it could click "more info", now the login button will appear and after inputting the correct username and login at the login page, the user could login.

After logging in, if the user is a VIP user, then the user will be allowed to visit the application cases page and summary charts page, but user is not allowed to modify the information.

If the user is a manager, then the user will have access to all pages except the "role manage" page and could modify the information displayed on the website.

Administrator has access to all pages and all commands.

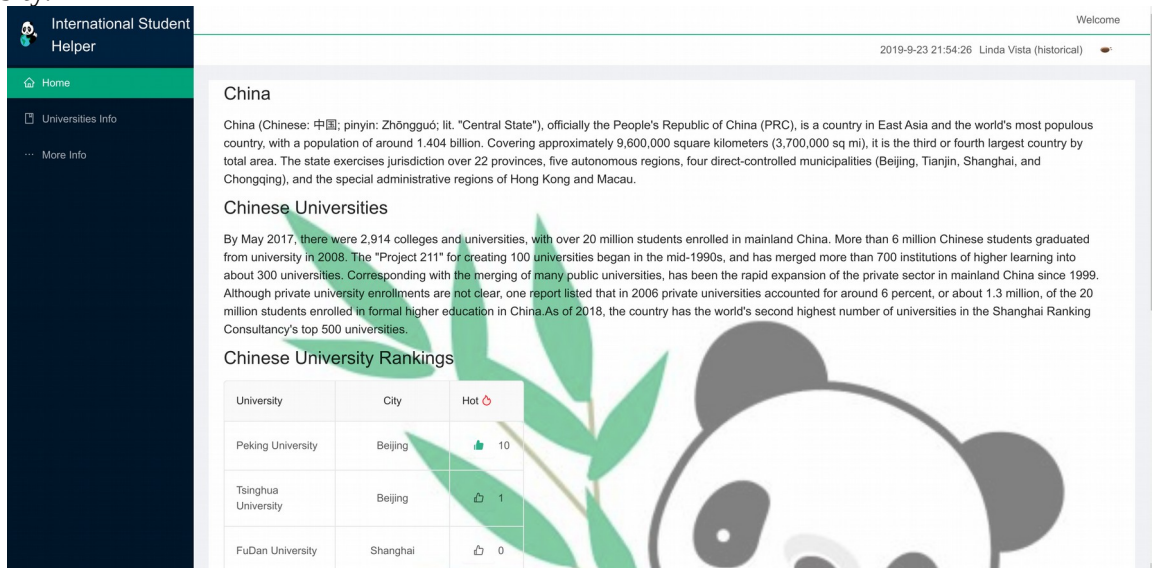
"Sign in" is not supported in this project, VIP and manager users must be created by other managers or administrator on "user manage" page.

Administrator could create new roles and authorize for them in "role manage" page.

Project display:

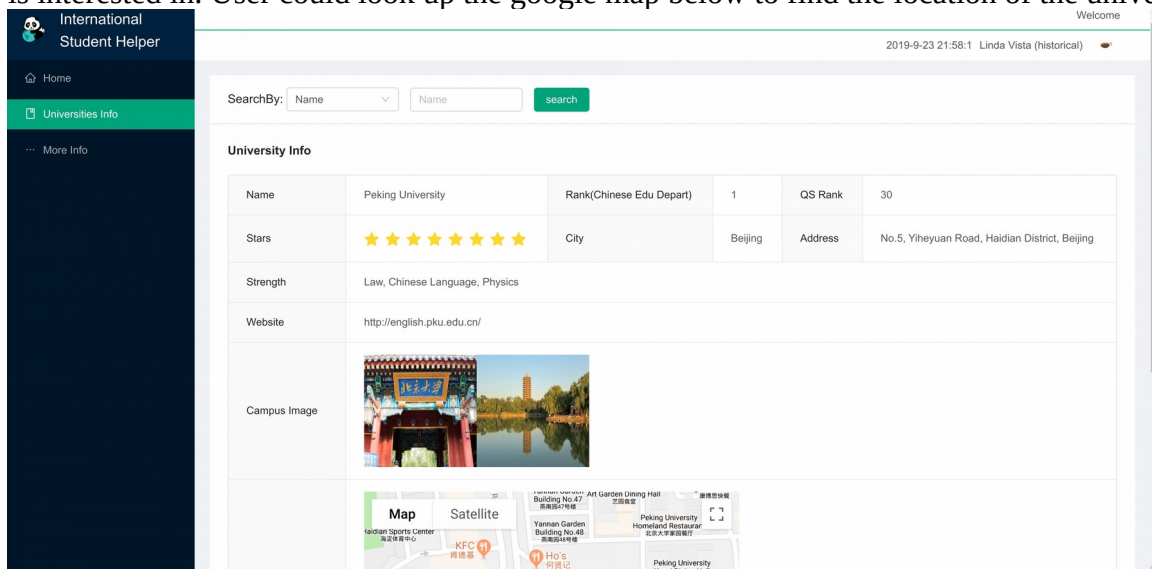
Home Page:

The left side is navigation for the pages in the website, the header of the right side shows the current location of the user (may not be very accurate), the local weather and current time. In the body of the right side there is a brief introduction of China and Chinese universities, user can vote for their favorite university.

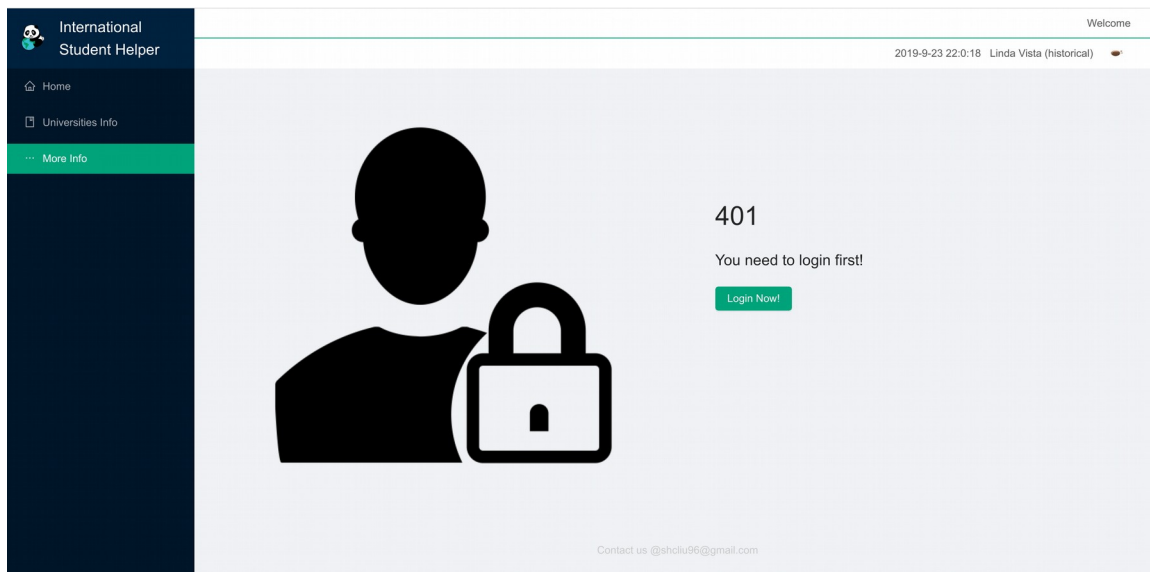


Chinese universities information page:

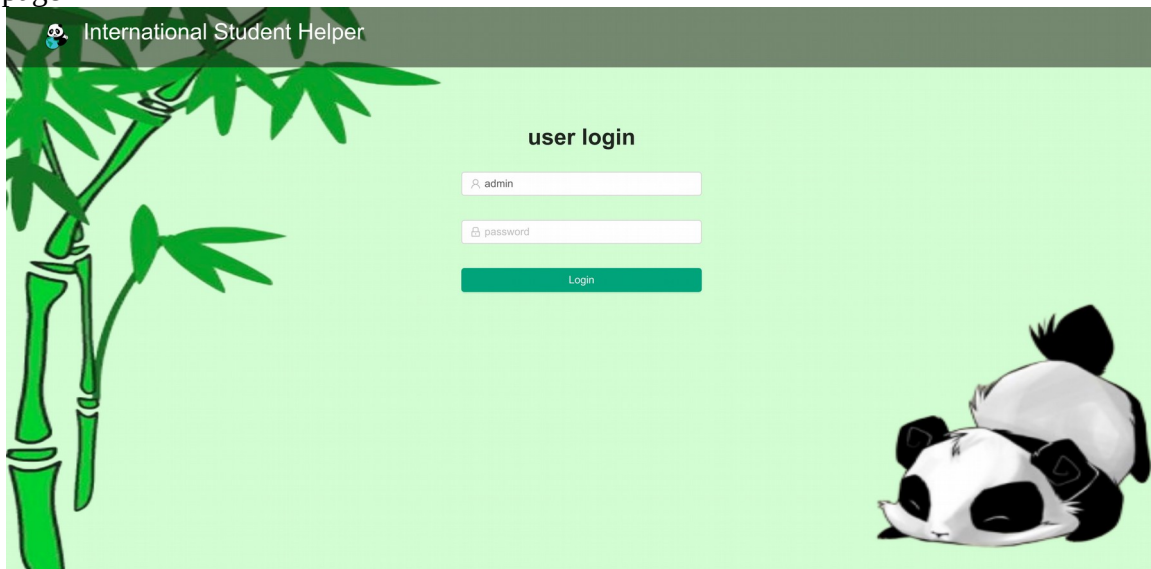
After searching by name or rank, user could find the name, rank, address, website, etc of the university he/she is interested in. User could look up the google map below to find the location of the university.



More info (warning, login is required to unlock more information):



Login page:



Chinese universities info page (login as a manager):

Now we could find that there is a “modify” button on the right, this means that we could modify information displayed on the website.

International Student Helper

Home
Universities Info
Applicants Info
User Manage
Role Manage
Charts

Welcome admin
log out
2019-9-23 22:3:45 Linda Vista (historical)

SearchBy:
Name
Name
search
+ modify

University Info

Name	Peking University	Rank(Chinese Edu Depart)	1	QS Rank	30
Stars	★★★★★★★★	City	Beijing	Address	No.5, Yiheyuan Road, Haidian District, Beijing
Strength	Law, Chinese Language, Physics				
Website	http://english.pku.edu.cn/				
Campus Image					

Successful application cases page:

On this page, user could search cases by applicant name, target university, test scores,.etc.

International Student Helper

Home
Universities Info
Applicants Info
User Manage
Role Manage
Charts

Welcome admin
log out
2019-9-23 22:5:40 Linda Vista (historical)

SearchBy:
All
All
Search
+ modify

App Name	Target University	Nation	Test Score	Grad School	Degree
Jack	Peking University	USA	90	UCLA	PhD
Julia	Peking University	USA	93	UCLA	Undergrad
Nagato	Peking University	Japan	92	Tokyo University	Undergrad
Sasha	Peking University	Russia	90	Moscow University	MS
Susan	Peking University	Britain	89	Oxford University	PhD

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Goto

Contact us @shdlv96@gmail.com

User manage:

Managers and administrator could modify and delete user on this page.

International Student Helper

Home

Universities Info

Applicants Info

User Manage

Role Manage

Charts

Welcome admin [log out](#)

2019-9-26 14:22:1 Linda Vista (historical)

Create User

username	email	phone	create Time	role	modify
abc	123@123.com	123456789	2019-9-26 14:20:20	VIP	modify delete
def	456@456.com	987654321	2019-9-26 14:20:51	Manager	modify delete

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Role manage (authorization):

Administrator could create role and authorize them on this page.

International Student Helper

Home

Universities Info

Applicants Info

User Manage

Role Manage

Charts

Welcome admin [log out](#)

2019-9-23 22:8:26 Linda Vista (historical)

Create Role

Auth

	Role Name	Create Time	Auth Time	Auth Name
<input type="radio"/>	VIP	2019-9-14 21:17:39	2019-9-14 21:18:17	admin
<input type="radio"/>	Manager	2019-9-14 21:18:1	2019-9-14 21:18:25	admin

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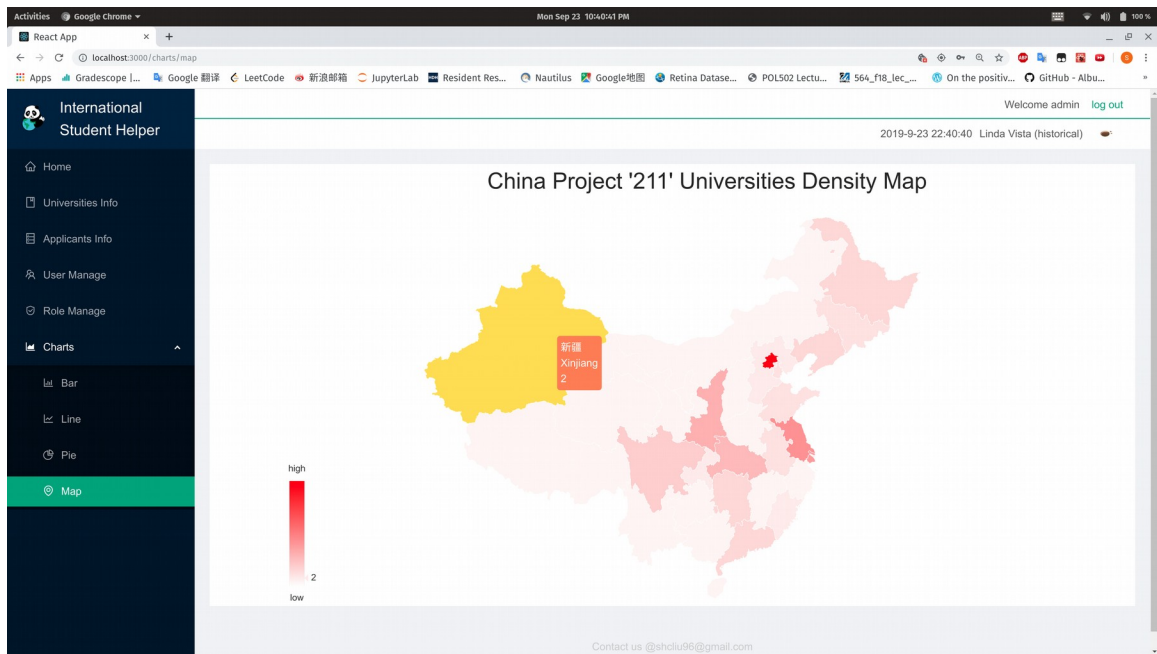
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Summary charts (eg: Chinese top 100 university distribution map):

The tool tip shows the Chinese name,English name and number of best universities of the province where the mouse is hovering over.



Not found (404) page:

If the url the user inputs is not correct or the user does not have access to this page, then this page will appear, this shows that our project has route protection function.

