**Internationalization of the project**

In order to display the corresponding interface in different languages and regions without modifying the internal code, we developed an international version of the project and used the I18N plugin, which is a plugin based on Vue.

The process of nationalization is divided into several steps：

To begin with, Install I18N plugin for project. The Internationalization version we used is 8.10.0

"vue-i18n": "^8.10.0",

After importing dependencies for front-end, a specific example should be declared in project.

Vue provide a convenient way to realize international, this mechanism is called locale. We initialize locale as English

const i18n = new VueI18n({  
locale : "en",  
})

Then, a lot of translated information needs to be prepared locally. Considering that the users of this project are native speakers of English and Chinese, project release version includes both English and Chinese. Consequently, two types of translation documents should be prepared.

const messages = {  
zh: {message: {homepage: '主页', … }}  
en: {message: {homepage: 'Home', … }}  
}

Finally, use different text rendering techniques to replace all text in the project

|  |  |
| --- | --- |
| For placeholder: | :placeholder="$t('message. placeholder)" |
| For normal text: | {{ $t("message.text") }} |
| For text calls: | this.$t("message. calls ") |

Buttons are placed prominently in Web servers and Android applications. Simple clicks will switch the language of the service

**Cloud server**

Cloud-based projects meet the needs of employees and customers to process transactions online. This project uses Tencent Cloud Server and provides stable services.

Essential information about Cloud Server:

|  |  |  |
| --- | --- | --- |
| Inside IP address | Outside IP address | Domain Name |
| 172.21.0.9 | 123.207.144.103 | [www.hibernia-sino.cn](file:///Users/macbookair/Desktop/www.hibernia-sino.cn) |

Cloud servers provide end-to-end services. Different protocols occupy different ports to realize data transmission and file request services together.

|  |  |  |
| --- | --- | --- |
| Order number | Port | Description |
| 1 | 80 | Website Default Port |
| 2 | 888 | PhpMyAdmin |
| 3 | 8888 | Visualization panel |
| 4 | 20 | FTP Active Mode Data Port |
| 5 | 21 | FTP Protocol Default Port |
| 6 | 22 | SSh Remote Service |
| 7 | 6379 | Redis |
| 8 | 3306 | MySQL |
| 9 | 8055 | Front-end and back-end interaction ports |
| 10 | 8088 | Development mode port |

It is worth mentioning that except to input the corresponding ports, database access requires additional address and command. This insignificant operation can greatly increase the security of the project.

Due to the project adopts a separate front-end and back-end development strategy, there are different ways to publish different front-end and back-end files. All front-end files contained in the dist file need to be placed in a path named / www/wwroot/hibernia-sino.cn.

As for the back-end, a JAR file will be generated and located in a path named /www/server. In addition, an additive command is necessary for cloud server to continue running jar file.

nohup java -jar interest-server-2.0.0.2.jar &