

Deployment Document

The following tools and environment were used for local development:

- Windows 11
- Google Chrome
- Visual Studio Code
- Github Desktop
- XAMPP/ Docker Desktop

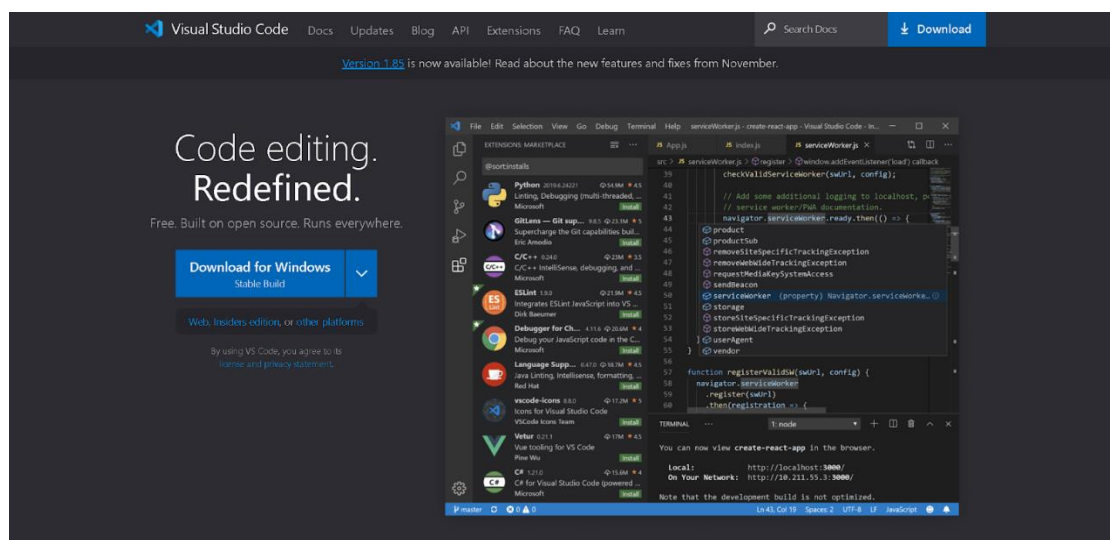
Running the Program

To run the systems successfully, all you have to do is make sure to install the correct IDE and run the program.

IDE

For the IDE, the one we decided to use was Visual Studio Code. This is because first of all it is the recommended IDE for developed Angular and Python applications. And also because it is very easy to install npm packages and start the program.

This is the link to install the IDE, <https://code.visualstudio.com/>



You will also have to install Node.js if you have not installed that before.

<https://nodejs.org/en/download/>

Downloads
Latest LTS Version: 20.10.0 (includes npm 10.2.3)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

LTS Recommended For Most Users	Current Latest Features	
 Windows Installer node-v20.10.0-x64.msi	 macOS Installer node-v20.10.0.pkg	 Source Code node-v20.10.0.tar.gz

Windows Installer (.msi)	32-bit	64-bit	ARM64
Windows Binary (.zip)	32-bit	64-bit	ARM64
macOS Installer (.pkg)	64-bit / ARM64		
macOS Binary (.tar.gz)	64-bit		ARM64
Linux Binaries (x64)	64-bit		
Linux Binaries (ARM)	ARMv7		ARMv8
Source Code	node-v20.10.0.tar.gz		

Program Files(Front-end)

After downloading the IDE and Node.js the next step is to download the program files and put them into the IDE workspace.

The program files are at

https://github.com/lo2495/StudentManagementSystem_Frontend

StudentManagementSystem_Frontend (Public)

main 1 Branch 0 Tags

Go to file Add file <> Code

About: No description, website, or topics provided.

lo2495 Update README.md 87609ae · 5 minutes ago 26 Commits

File	Commit Message	Time
.vscode	New project to push to GitHub	2 years ago
src	UI of login page updated	2 years ago
.editorconfig	New project to push to GitHub	2 years ago
.gitignore	New project to push to GitHub	2 years ago
README.md	Update README.md	5 minutes ago
angular.json	New project to push to GitHub	2 years ago
package-lock.json	-	6 minutes ago
package.json	-	6 minutes ago
tsconfig.app.json	New project to push to GitHub	2 years ago
tsconfig.json	New project to push to GitHub	2 years ago
tsconfig.spec.json	New project to push to GitHub	2 years ago

Releases: No releases published. [Create a new release](#)

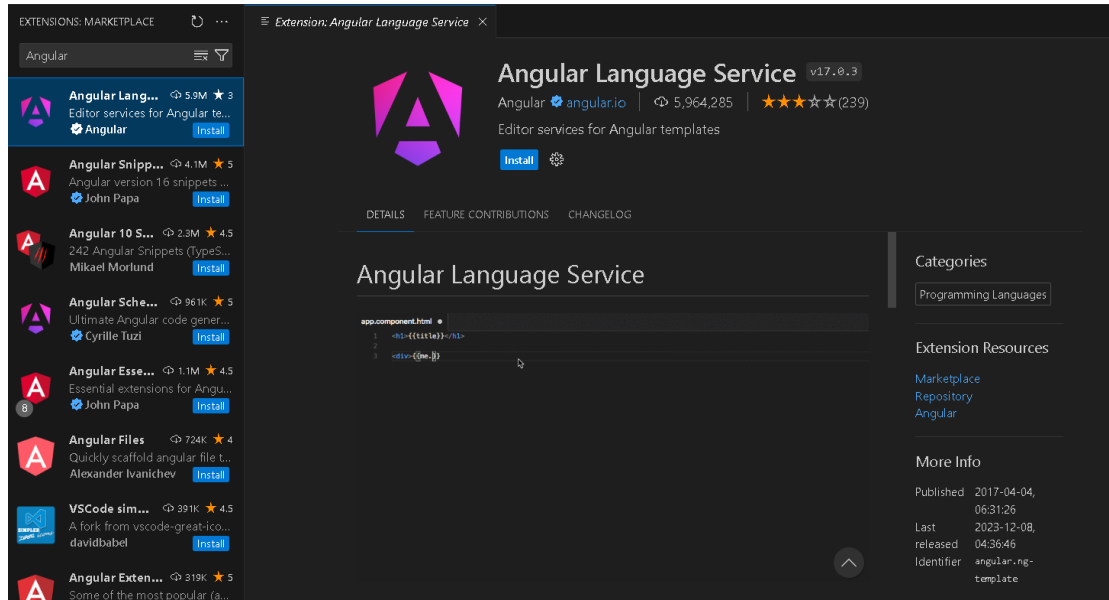
Packages: No packages published. [Publish your first package](#)

Contributors: 2

- lo2495
- hahalty

After cloning the repository to your computer, use Visual Studio Code to open the folder.

Install Angular Language Service From the extension.



Then open the terminal and type `npm install` and `npm start` / `ng serve` to run the Front-end program.

```
PS C:\Users\lohiy\MUHK\S350F\StudentManagementSystem\StudentManagementSystem_Frontend> npm start

> gp50-group-project-frontend@0.0.0 start
> ng serve

✓ Browser application bundle generation complete.

Initial Chunk Files | Names          | Raw Size
vendor.js           | vendor         | 5.41 MB
main.js             | main           | 865.33 kB
polyfills.js        | polyfills      | 333.20 kB
styles.css, styles.js | styles         | 315.33 kB
runtime.js          | runtime        | 6.55 kB
                    | Initial Total  | 6.90 MB

Build at: 2025-04-10T12:16:51.394Z - Hash: 4ac9bfc7b57b1adb - Time: 2860ms

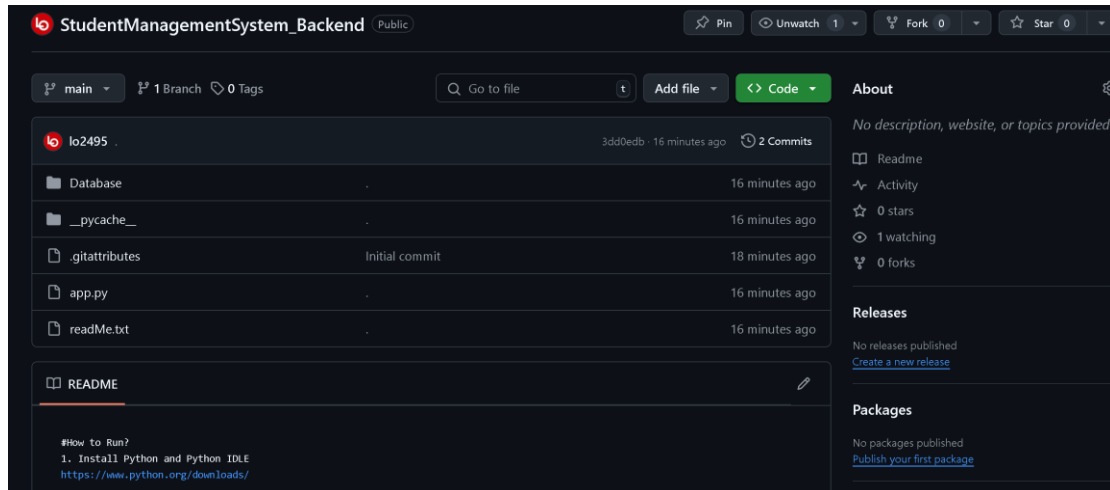
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **

✓ Compiled successfully.
```

Program Files (Back-end)

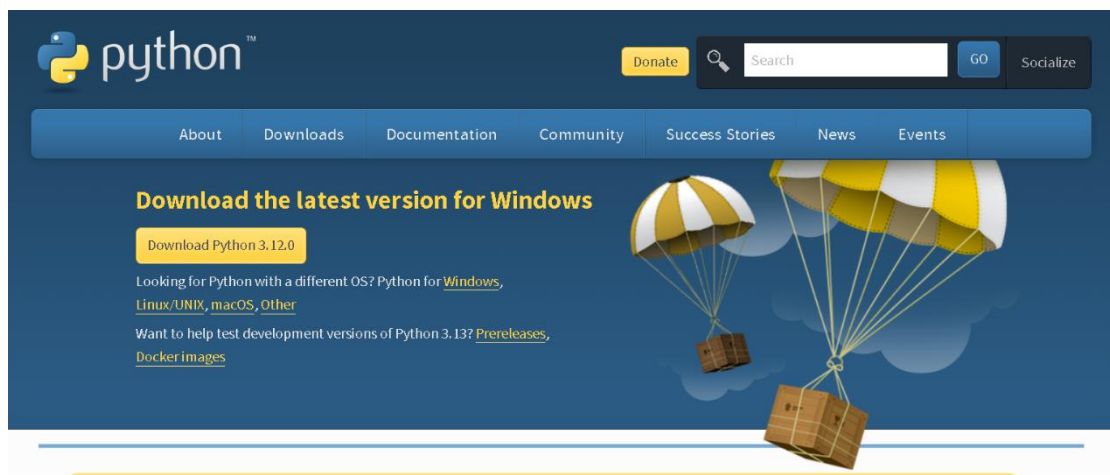
The program files are at

https://github.com/lo2495/StudentManagementSystem_Backend/tree/main



After cloning the repository to your computer, download python at

<https://www.python.org/>



Then open the terminal and type “py -m pip install flask” to install the flask web framework.

Then type “py -m pip install flask_cors” in the terminal.

Then type “py -m pip install flask_mysqldb” in the terminal.

Finally, type “py -m flask run” or “python -m flask run” in the terminal then the back-end system should be run properly.