
C++ Code Master

— & my personal website —

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A glance over my personal web portfolio

1. A life photo
2. A List of project descriptions
3. Some Social media links

Let's focus on the 'C++ Code Master'

3 features:

1. C++ project hosting and metrics analyzing
2. C++ online playground
3. Connect with the community

The flow of uploading your project and display it

1. User shall select all the source files in the project using AJAX.
2. Server receives those files through 'Express' to the right handler, which is 'receiveFiles' function in 'upload.server.controller.js' file.

The flow of uploading your project and display it

3. The “receiveFiles” function users a middleware called ‘multer’ to parse files into javascript object and store them into the disk.

The flow of uploading your project and display it

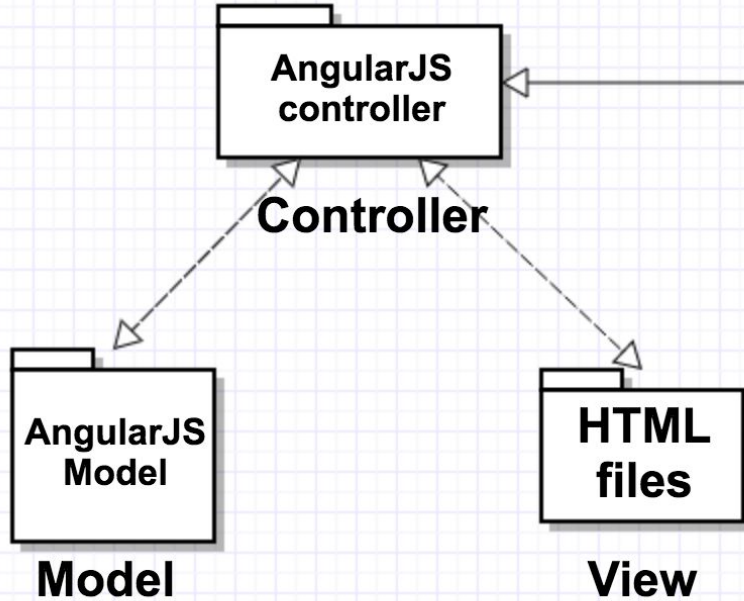
4. Call C++ modules to:
 - a. Transfer C++ source files user uploaded into .html file, store them in the disk.
 - b. Analyze file metrics, return them in JSON format to nodejs and store them in MongoDB.
 - c. Analyze dependency relationship between packages and also return it in JSON format.

The flow of uploading your project and display it

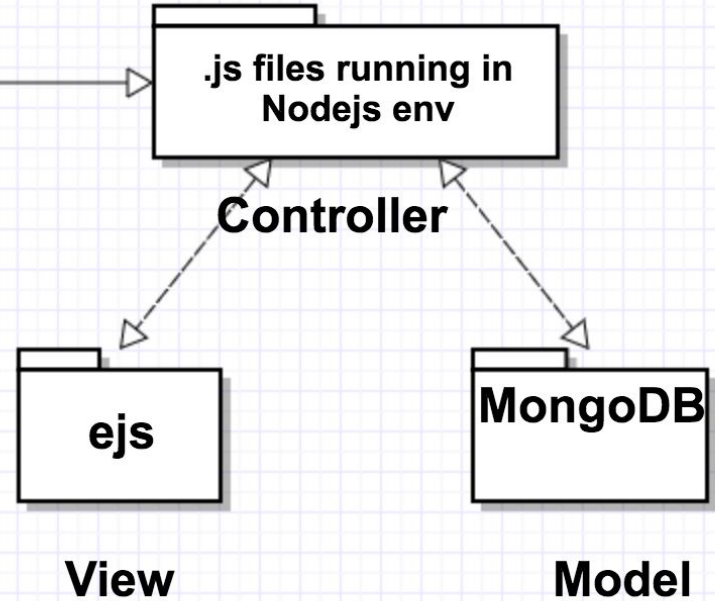
5. When user click the 'project' page, the AngularJS service will query all the JSON information stored in the server's MongoDB or its disk back to the client.
6. On client side, the JSON data will be processed by all the AngularJS maze to render on the webpage.

bi-MVC framework

AngularJS



Express



AngularJS matrix of assembling HTML files

Feature 2: C++ playground

Sometimes, you just want to run a 'hello world'. But, you don't want to spend half an hour to set a project in Visual Studio.

Feature 3: Community

A place to see others' projects and also for others to peep on you.

Future plan:

1. Polish UI
2. Let users can directly modify the files they uploaded and run on the website.
3. Have a short-term holiday.

Thank you