Client Handbook For Group 7

Introduction

The purpose of this document is to provide instruction for the various functions of the project. I will cover the requirements needed in order to run the project locally and any software and extensions needed in order for it to function as required.
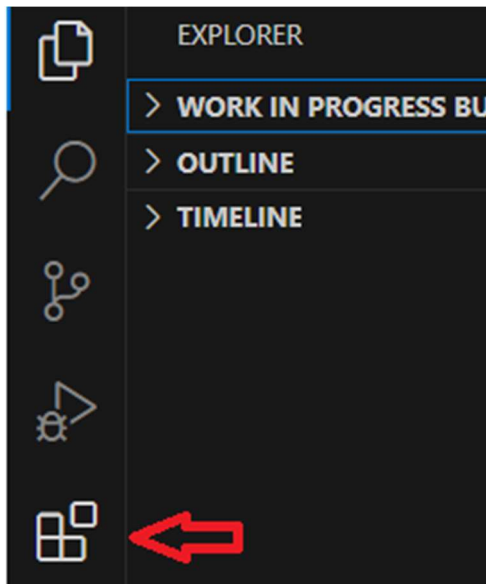
Software Requirements

The project makes use of Node.JS for running our backend code due to this, in order to run the server locally you must install node.js and its package manager, both can be found at: https://nodejs.org/en/download
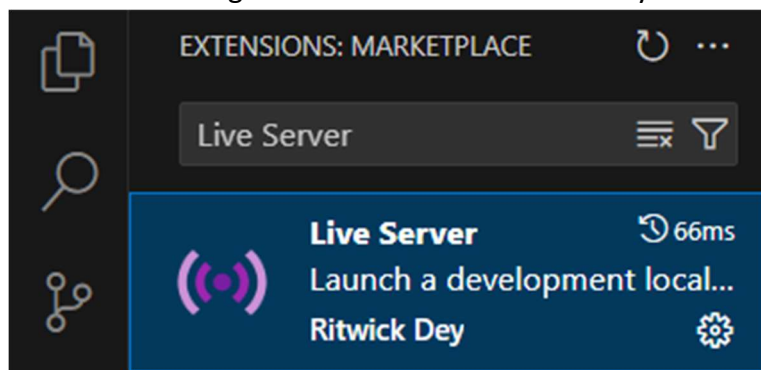
The dependencies the back end requires can be acquired by opening the command line window by navigating to where the project is using cd "Insert File Path" and when in the folder containing the package file using the NPM command "npm install" which will scan the package folder and install the needed dependencies, depending on when this is done some of the versions used in the project currently may be out of date so you may need to update them to more recent versions.

The Forticlient VPN is required for login and registration for this project as our database is hosted by the University of Plymouth and requires access to their network in order to properly access the database for login and registration. The university has easy to follow resources for downloading and setting up the Forticlient VPN. INSERT LINK

For testing and making use of the project currently requires the use of visual studio code and its live server extension, in order for the project to function correctly. The download for VS Code can be found at: https://code.visualstudio.com The live server extension can be installed by opening VS code and accessing the extension tab

And then searching for the live server extension by Ritwick Dey and then installing it.

A Modern browser is required due to this use of java script and modern html in order for the site to function, examples of a modern browser are Firefox, Google Chrome, Edge, Opera.

Hardware Requirements

Minimum Tested Specifications

Processor   Intel(R) Core(TM) i3-N305   1.80 GHz

Installed RAM 8.00 GB (7.63 GB usable)
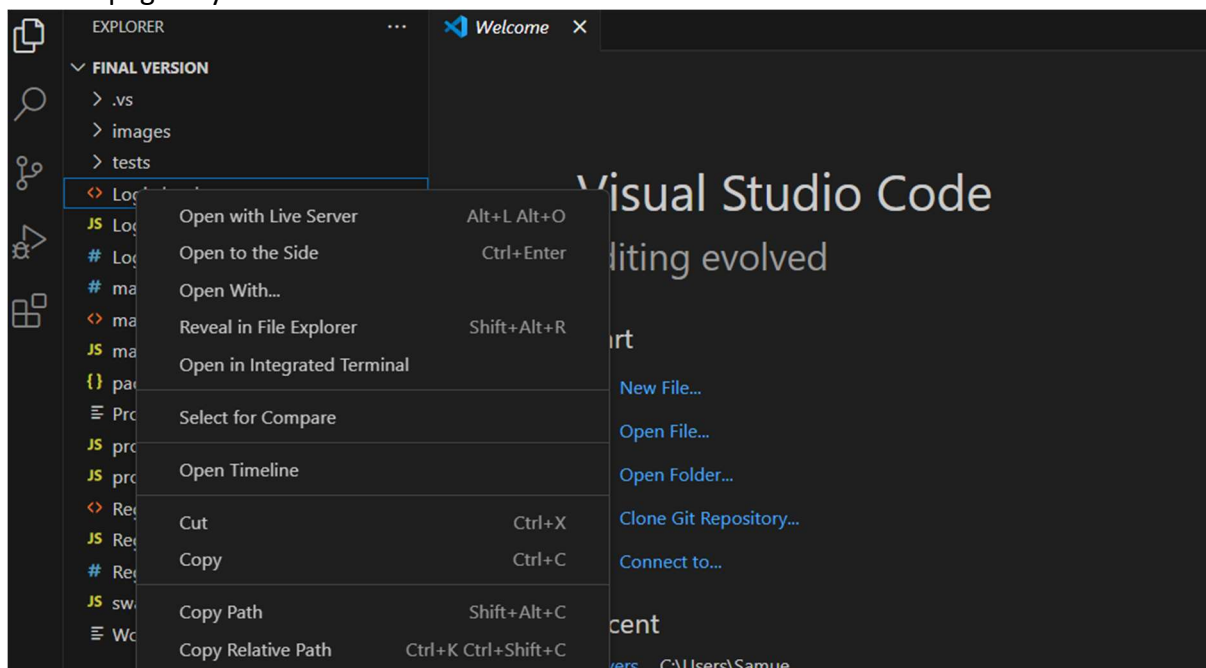
Running Windows 11

Instructions

Setting up the Node.js server

In order to make use of the project's login, registration, and login features, the node server is required to be running, to run the server you must have the needed dependencies, as explained in software requirements this can be done by using the command line and navigating to the folder containing the package.json file using cd "Enter File Path", and when in the correct directory using the command "npm install" which will scan the package file and install the needed dependencies. With the needed dependencies installed, you can call the server to run using the command line with the command "node projectserver.mjs" or whatever the name of the server is at that point. This will then start the server and it can be reached at localhost:3000.

Opening one of the project web pages

In order to start up the project web pages for testing and have it work successfully, you must make use of VS code and its Live server extension, with these installed, to access the page you must open the folder for the project in visual studio code and then right click the desired pages html file and then click the Open with Live Server option, this will then open the chosen page in your browser of choice.

Registration

To register a new account you must open the registration page and enable the Forticlient VPN so that the server can send the registration request to the database, when this is done you can return to the registration page and fill out your details in the labelled boxes, The password requirements for this project are that it must be at least 8 characters, it has a lowercase character, and uppercase character, a number, and a special character, an example of a password that would be accepted is StrongP@ssword1 as it meets the requirements. When the details have been entered successfully, you can click register and the it will be processed.

Login

To login to an account, you must open the login page and enable the Forticlient VPN so that the server can send the login request and the database can be checked for the entered credentials. To login you must enter details that are linked to a created account, when the correct details are entered and the login button is clicked it will send a request to the server to login and if the request is successful, you will see an alert towards the top of the browser, upon clicking ok on the alert you will be taken to the main page.

Before clicking register

After clicking register

127.0.0.1:5500 SAYS

Login successful!

OK

user@test.com

••••••••••••••

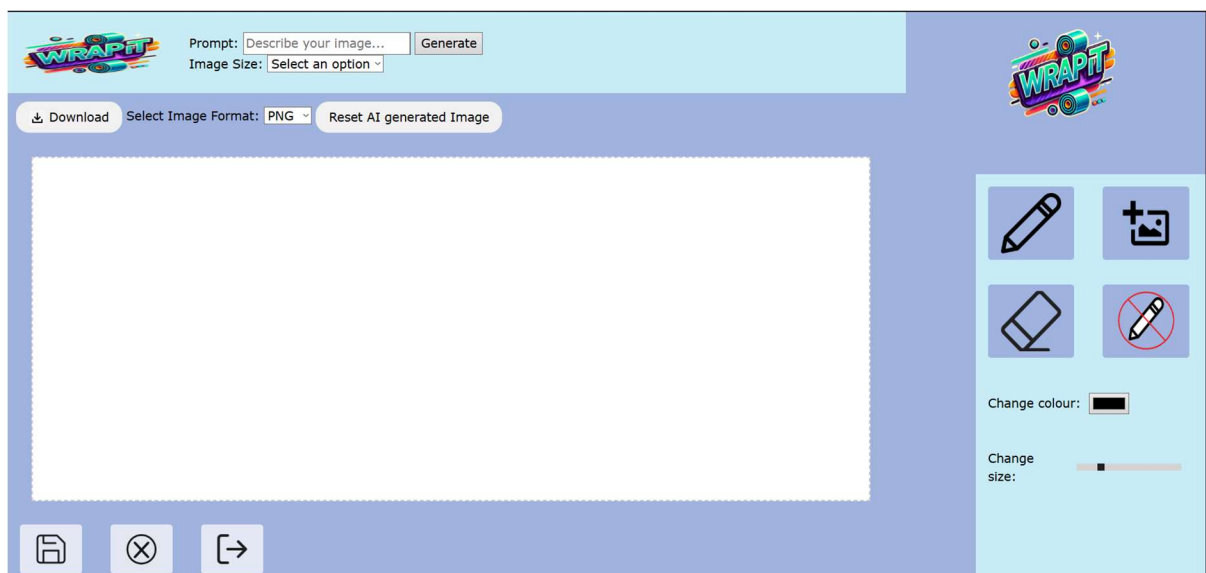➡] Login

Drawing tool and other buttons

On the main page is a white canvas, clicking on this white canvas will draw onto it with black as the pencil tool is automatically enabled when the page loads, to erase the drawing done, you can click on the eraser tool in the bottom left corner on the bar on the right in a similar manner to drawing clicking with the eraser tool will get rid of any drawing where the user clicks.

The button with the image icon on the right bar is used to upload pictures to the canvas from the users device, these can then be moved around within the canvas freely, to go between drawing and moving the picture, the user must press the No pencil button in the bottom right corner to disable the pen and allow movement of the image again.

 The change colour button brings up a colour picker to allow for good choice of colour, and the Size slider will increase the brush size the further to the right you go and smaller the further to the left you go.

At the bottom of the screen there are 3 button going from left to right they are Save which saves the current canvas to the browser so that when the user comes back they can continue where they left off. The middle button is to completely clear the current canvas excluding the AI generated image, and the right button is to take you back to the login screen.

At the top left of the screen is a button labelled download which will save the current canvas as a picture to your device, you can choose the format from a predetermined list using the drop down box to the right.

AI Image Generator

 At the top middle of the screen is a text box to enter a prompt and below that is a drop down box to choose the size of the image to be generated, the options are 256x256, 512x512, and 1024x1024, it is advised to use 256x256 for the size of the image generated as it works better with the canvas than the other sizes. When the prompt has been entered and

the size chosen, click the generate button to send a request to the server, after short period of time the image will appear on screen, if you are unhappy with the image you can either generate another image after the cooldown of 30 seconds or you can use the button labelled Reset AI generated image and it will remove the image. An example of this working is shown below using the prompt of "Red panda cuddling human".

Conclusion

If you have any further questions not covered in this handbook, please contact me at samuel.stevens-10@students.plymouth.ac.uk