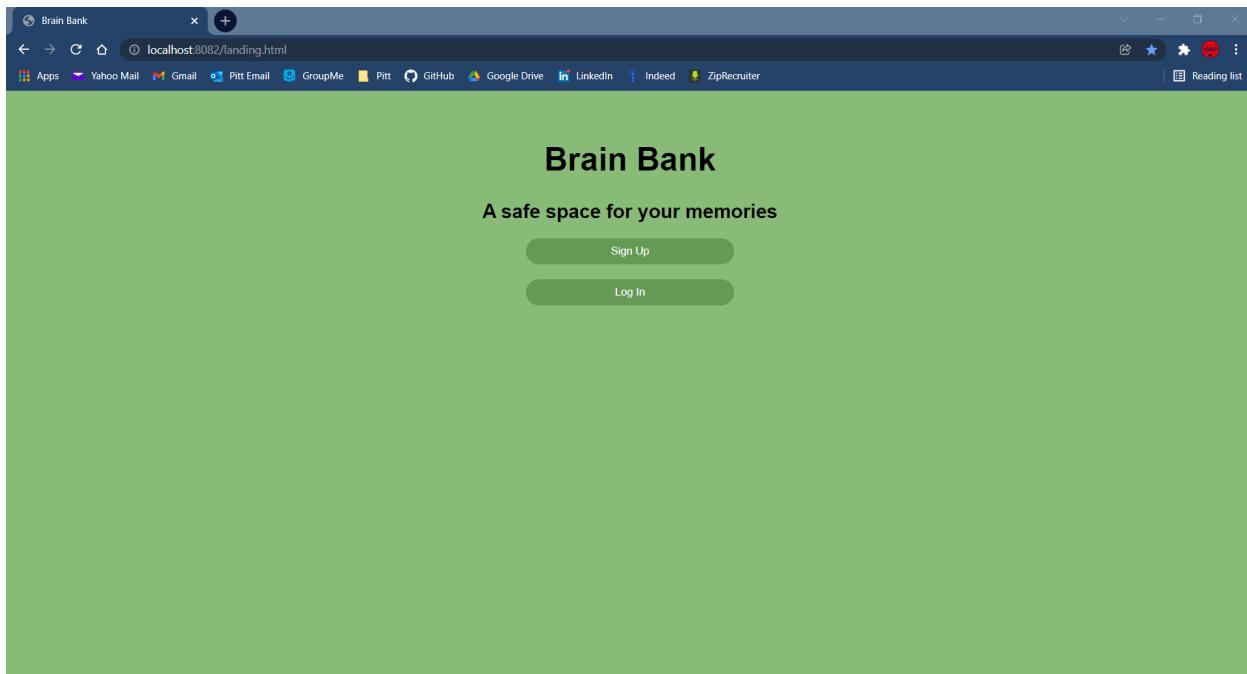


User Manual

1. Product overview

- a. Brain Bank is a virtual memory tool for those who suffer from a wide variety of memory impairments and diseases. It allows users to safely store pictures, text, and other relevant content connecting themselves to friends, family, and loved ones.
- b. Main Functions:
 - i. Create an account and link a recovery account
 - ii. View, create, and modify calendar events through the calendar page or through the To-Do list pane on the home page
 - iii. View, upload, and tag photos of memories you wish to remember and cross-reference with text.
 - iv. View, upload, and edit contacts
 - v. Search through existing photos, events, and contacts according to search keywords.
 - vi. Take a personalized quiz corresponding to your uploaded content to work out your brain and improve your memory.
 - vii. Manage account settings like passwords and recovery account details

2. Getting started



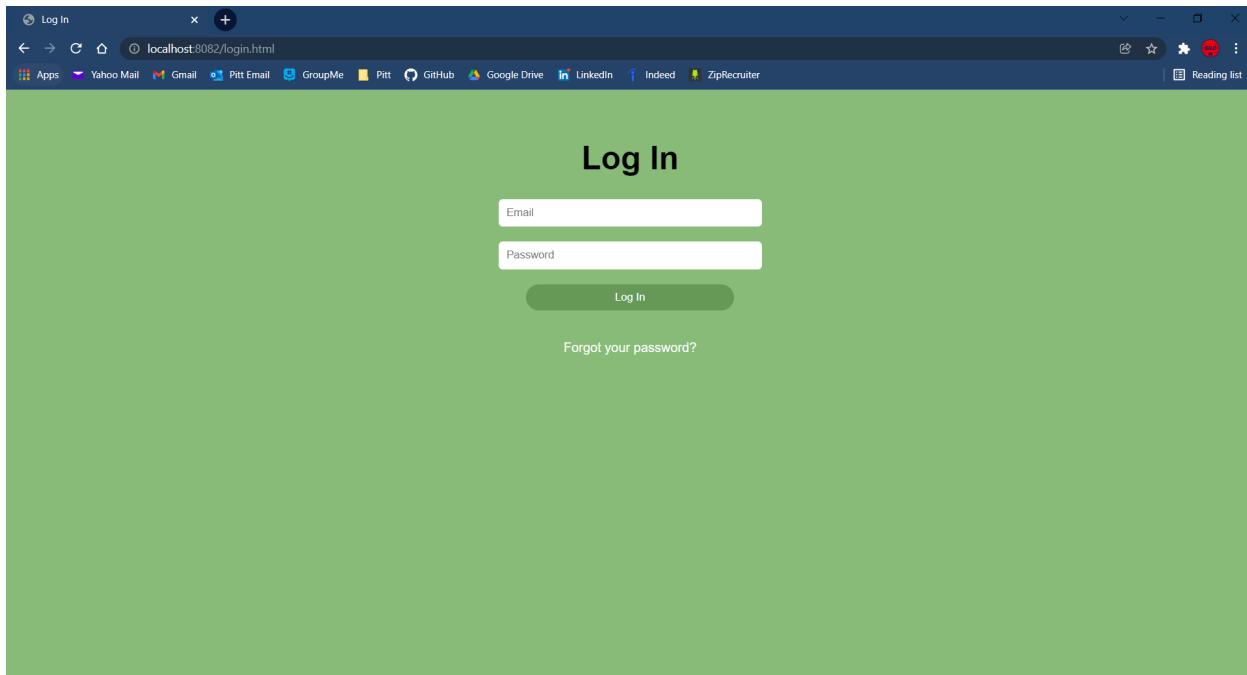
a. Sign Up

- i. Begin by creating your account information with a username and password. Be sure to keep a record of your password, and keep it safe!
- ii. Gather a friend or family member to have them create a recovery account for yourself.
- iii. Adhere to the password limitations indicated on the sign-in page when creating your password.

The screenshot shows a web browser window with a 'Sign Up' page. The browser's address bar displays 'localhost:8082/signup.html'. The page itself has a light green background and features a central 'Sign Up' heading. Below the heading are five input fields: 'First Name', 'Last Name', 'Email', 'Recovery Email', and 'Password'. Each field has a placeholder text inside. At the bottom of the form is a green 'Sign Up' button. The browser's toolbar and menu bar are visible at the top, and a tab bar below shows various open tabs including 'Yahoo Mail', 'Gmail', 'Pitt Email', 'GroupMe', 'Pitt', 'GitHub', 'Google Drive', 'LinkedIn', 'Indeed', and 'ZipRecruiter'.

b. Log In

- i. Once you have created an account, log in to Brain Bank utilizing the associated log-in page.
- ii. If the information entered for your account was incorrect for 3 consecutive tries, then utilize the forgotten password button which will require the information of the friend or family member to recover the account.



c. Help mode

- i. If the user finds themselves lost throughout the Brain Bank site, they can always find a help menu by clicking on the profile icon in the top right corner of the home screen.

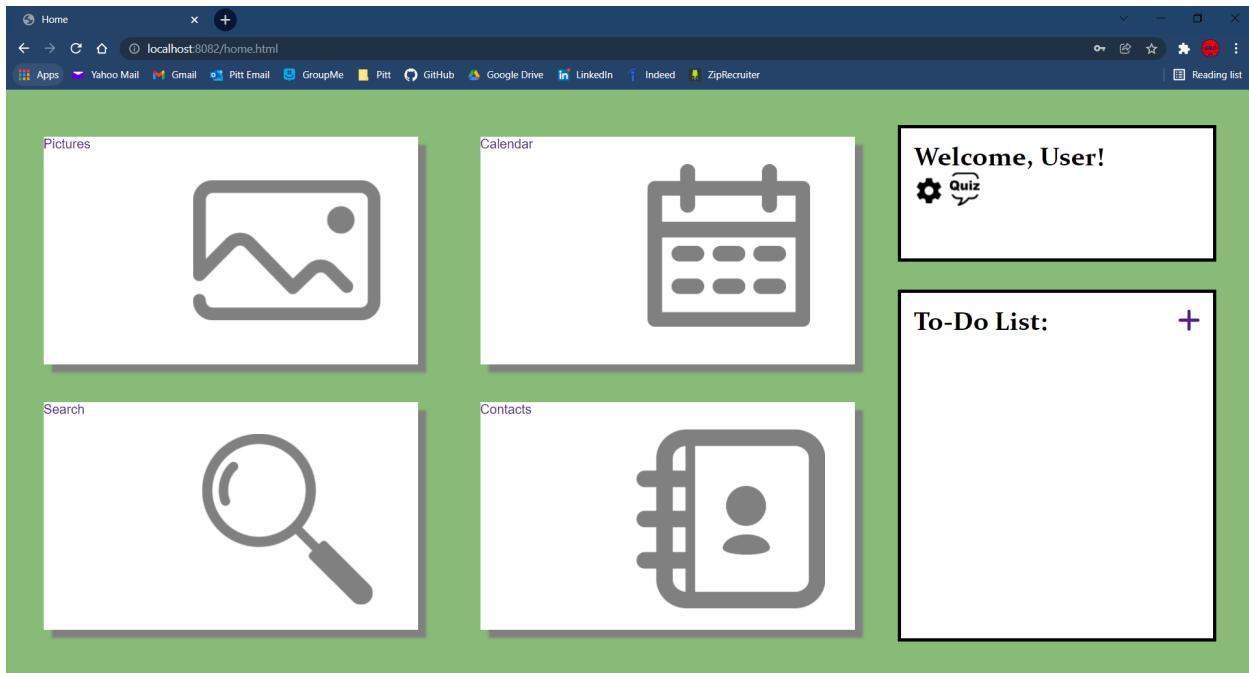
d. Sample runs

i. Log In

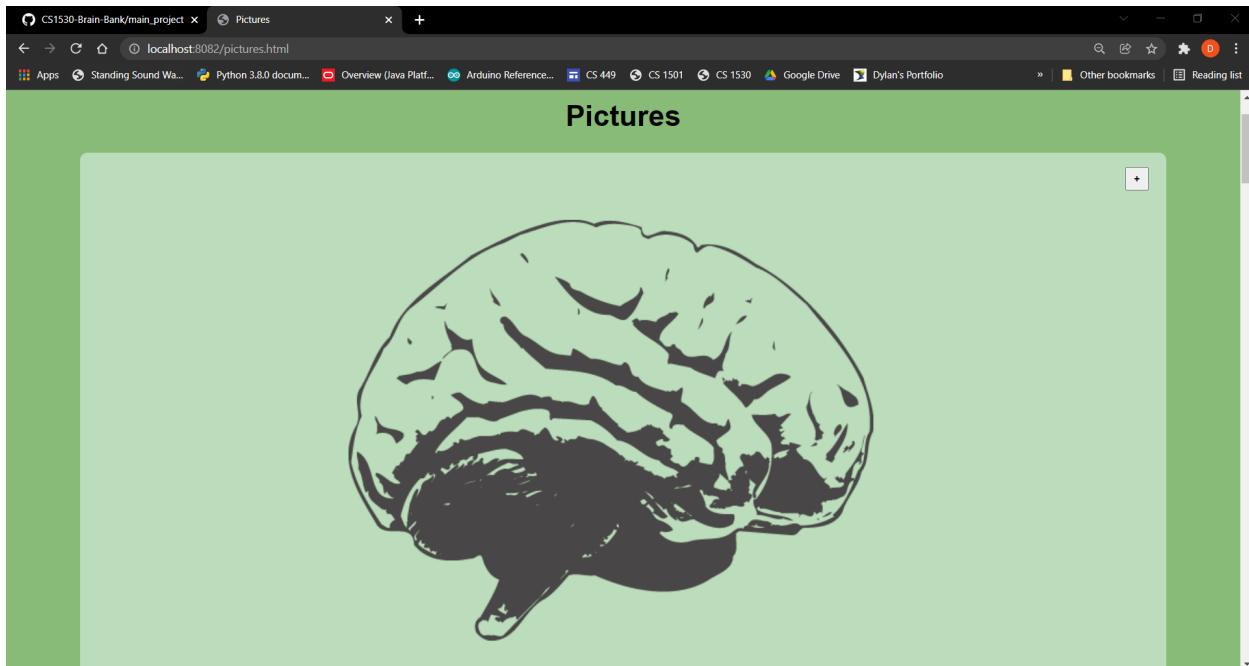
- 1. Navigate to the site's landing page. Click "Sign Up" to create an account with Brain Bank. Click "Log In" if you already have an account set up..

ii. Uploading a Photo

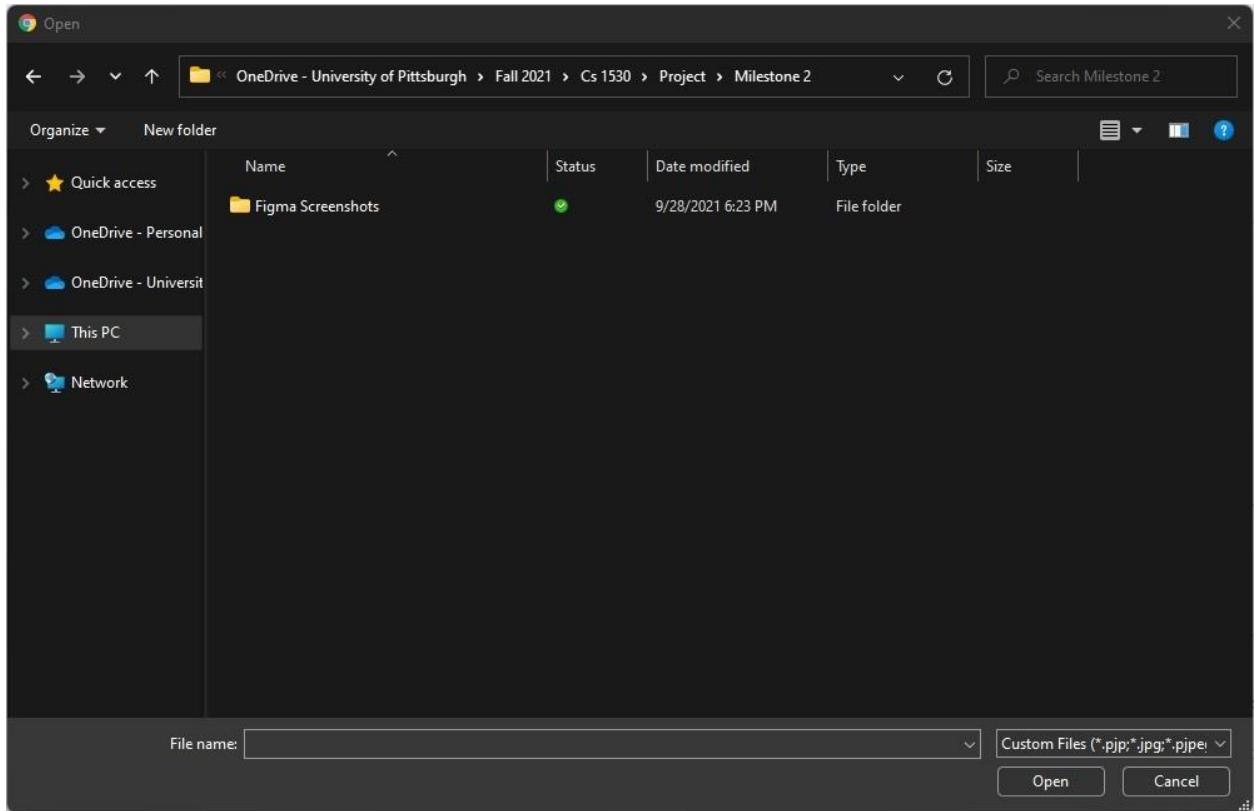
- 1. From the home page, click on the pictures pane in the upper left quadrant of the screen.



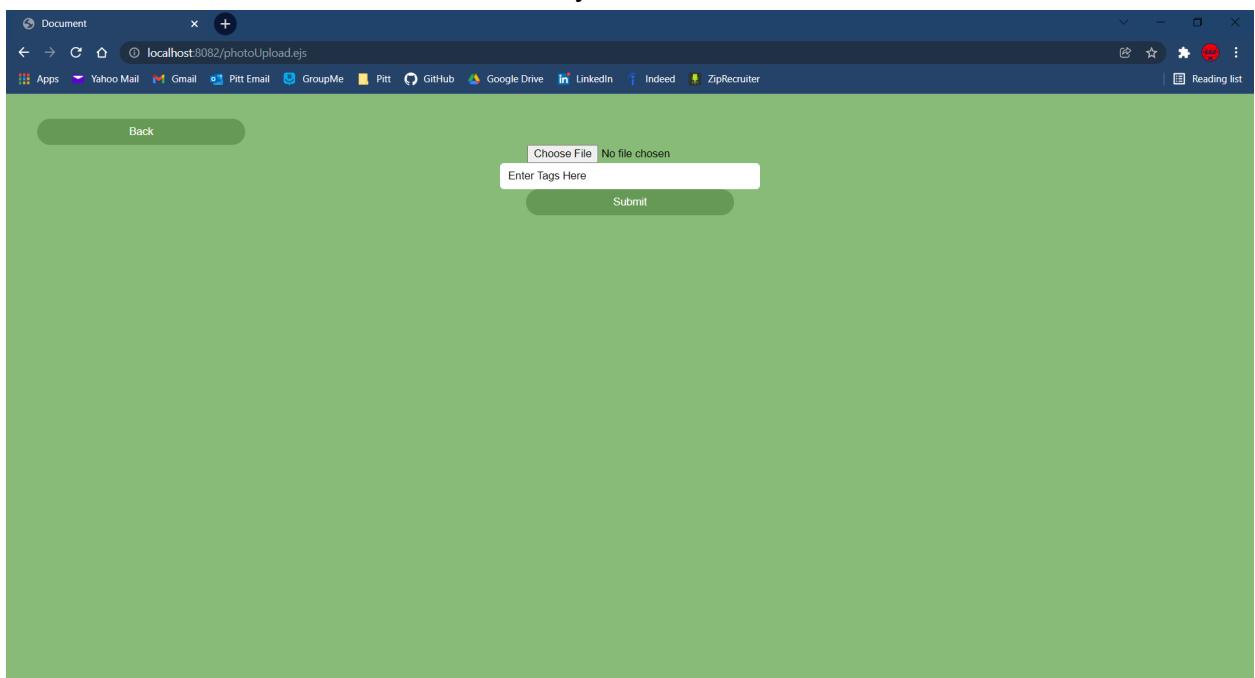
2. Click the plus sign in the top right corner of the main container.



3. Follow the corresponding dialog to browse for photos from your device to upload a photo. The maximum file size to upload is 10MB and is limited to common image file types (.png, .jpeg, etc).

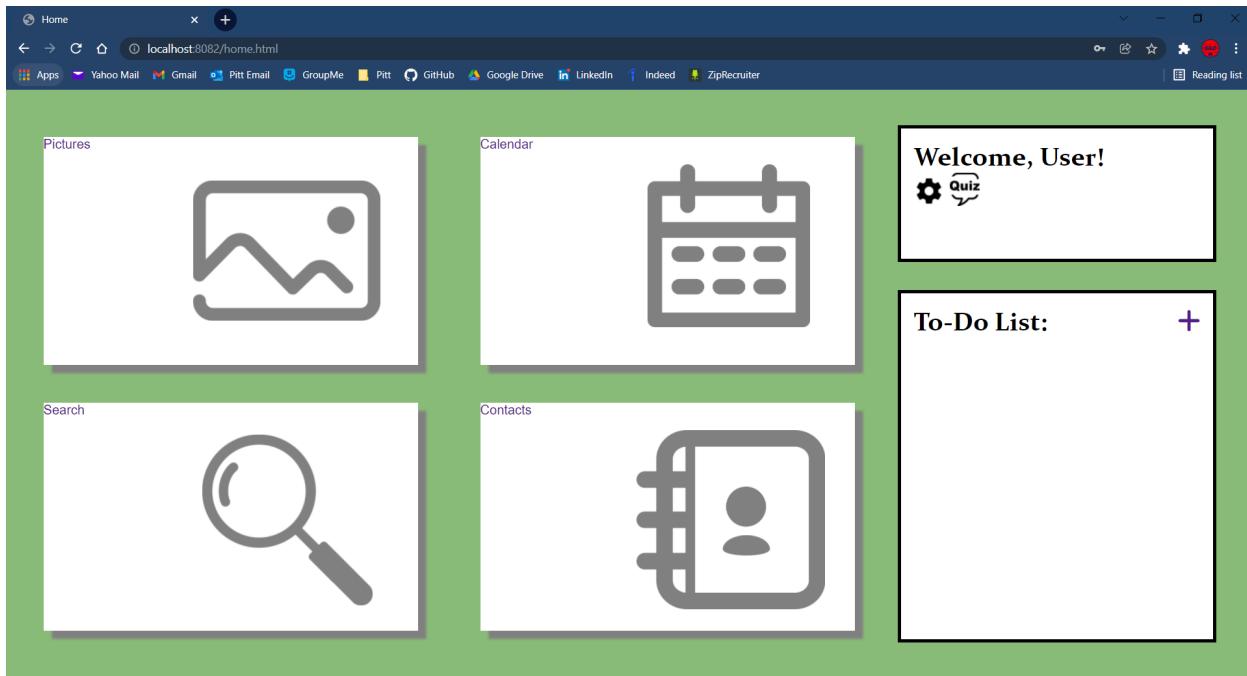


4. Make sure to give your photo at least one tag after you have chosen it, so you can search for it later.

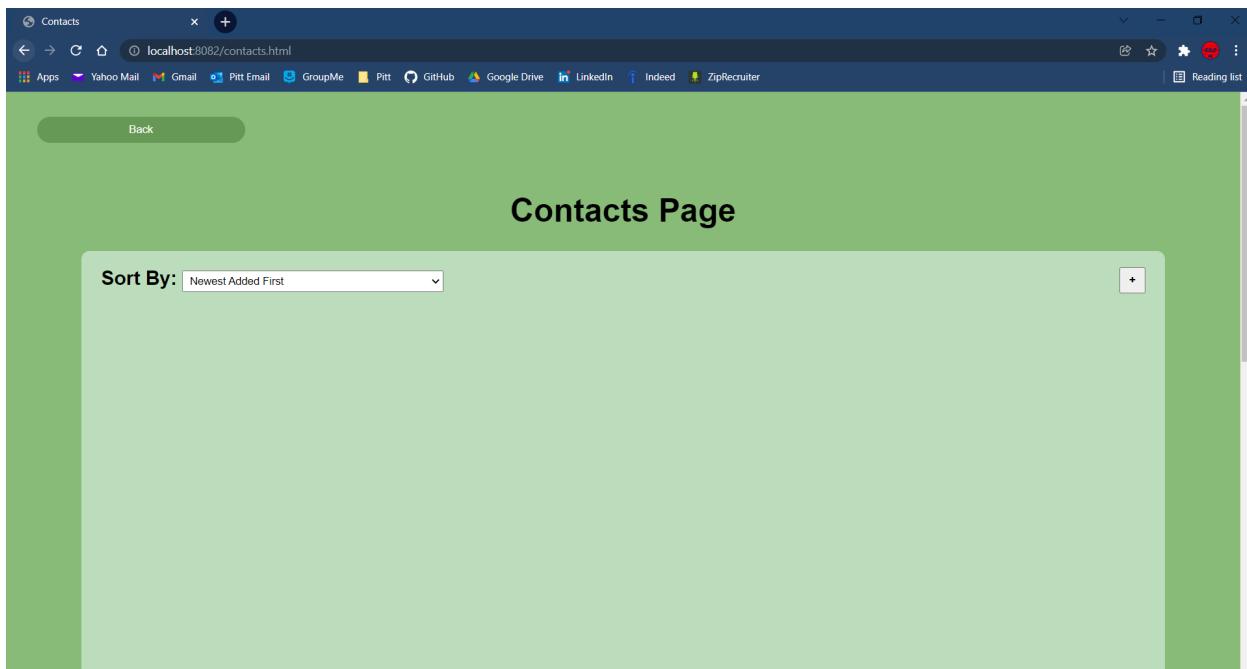


iii. Adding a Contact

1. From the home page, click on the Contacts pane in the bottom right quadrant of the screen.



2. Click the plus sign in the top right corner of the main container.



3. Follow the following dialog to enter contact info to the system. You can use the contact names when tagging pictures you upload to easily cross reference information.

Add Contact - required fields are marked *

UserId*:

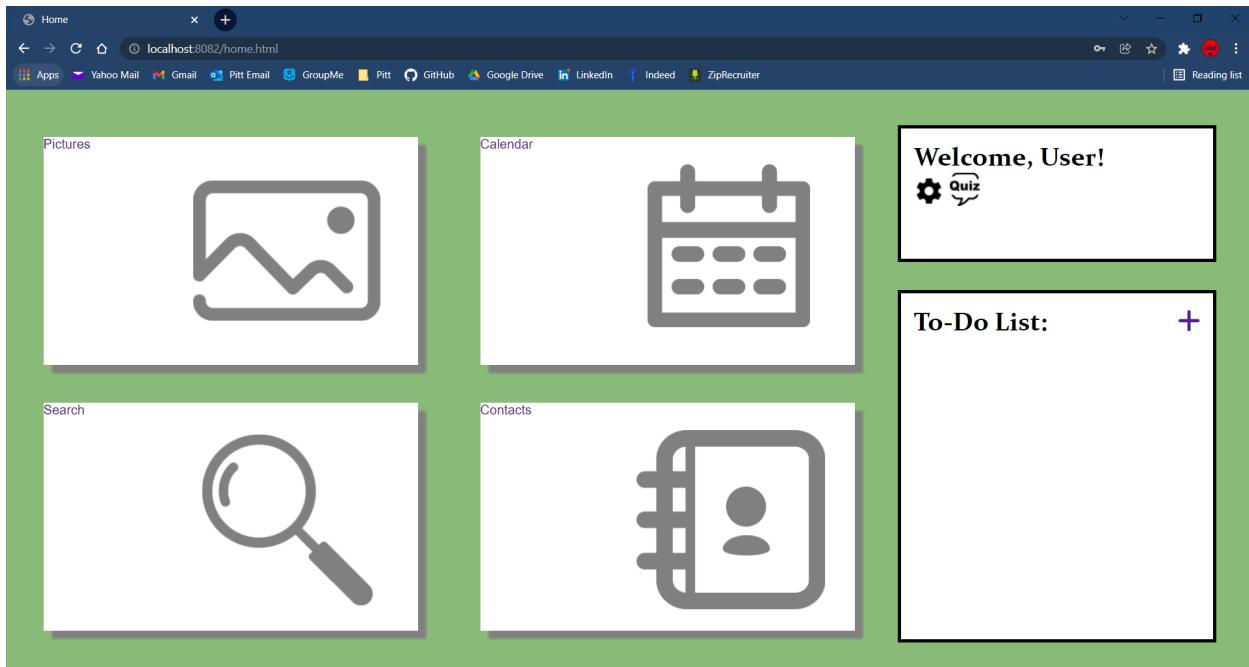
Name*:

Relationship*:

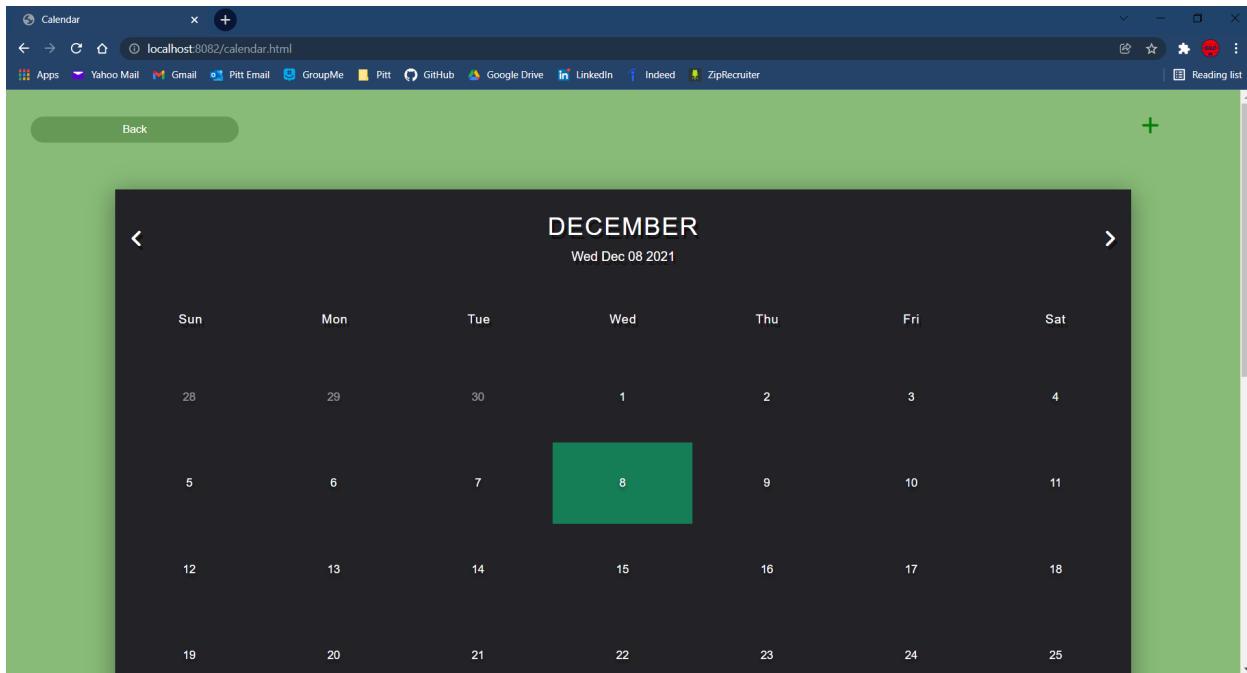
Submit

iv. Viewing your calendar

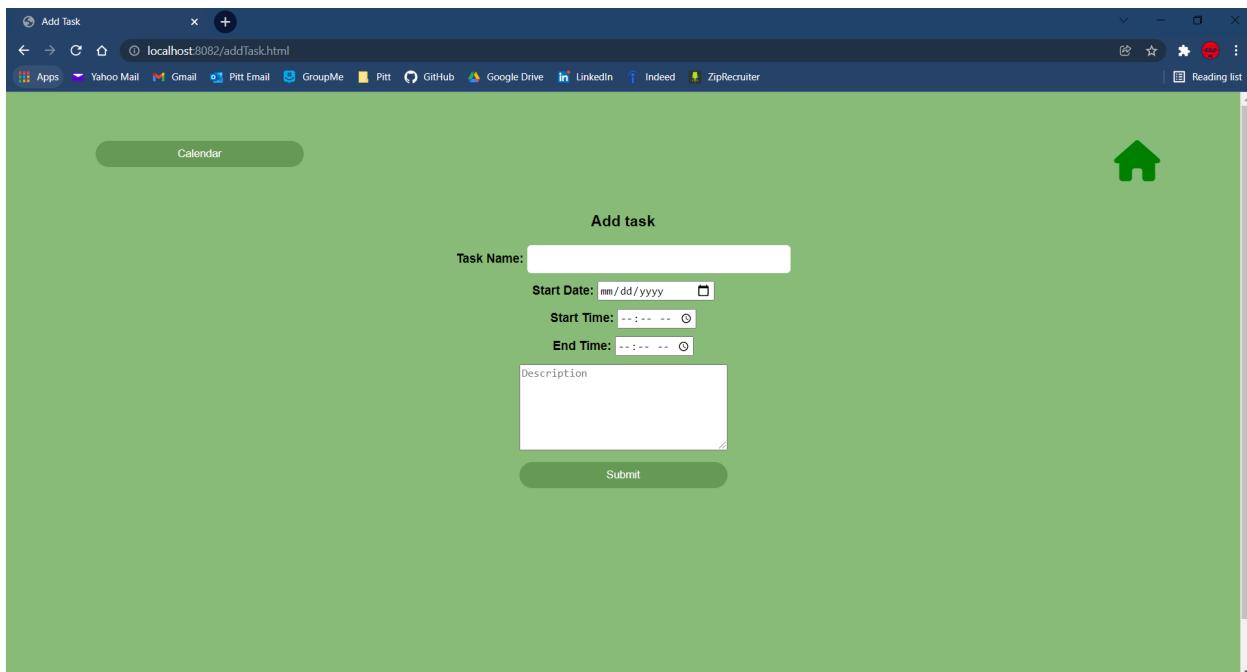
1. From the home page, click on the Calendar pane in the top right quadrant of the screen.



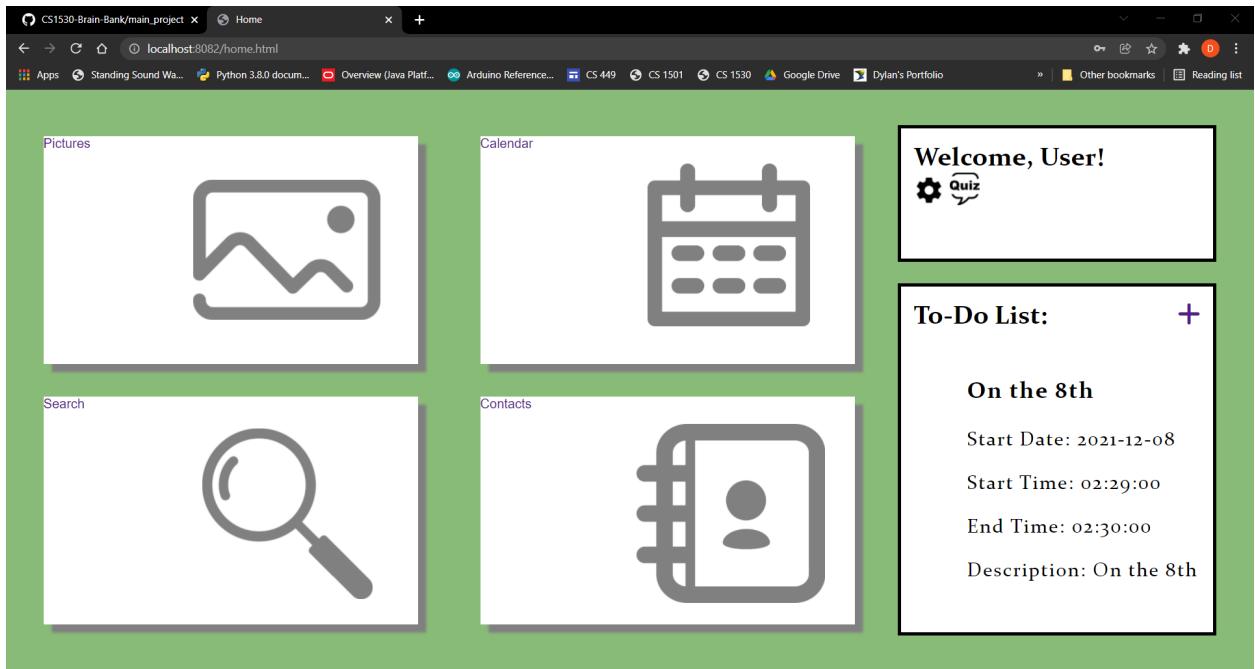
2. Click on the plus sign in the top right corner of the screen to add an event to your calendar



3. Follow the following dialog to enter event info and click submit to add your event to your calendar.

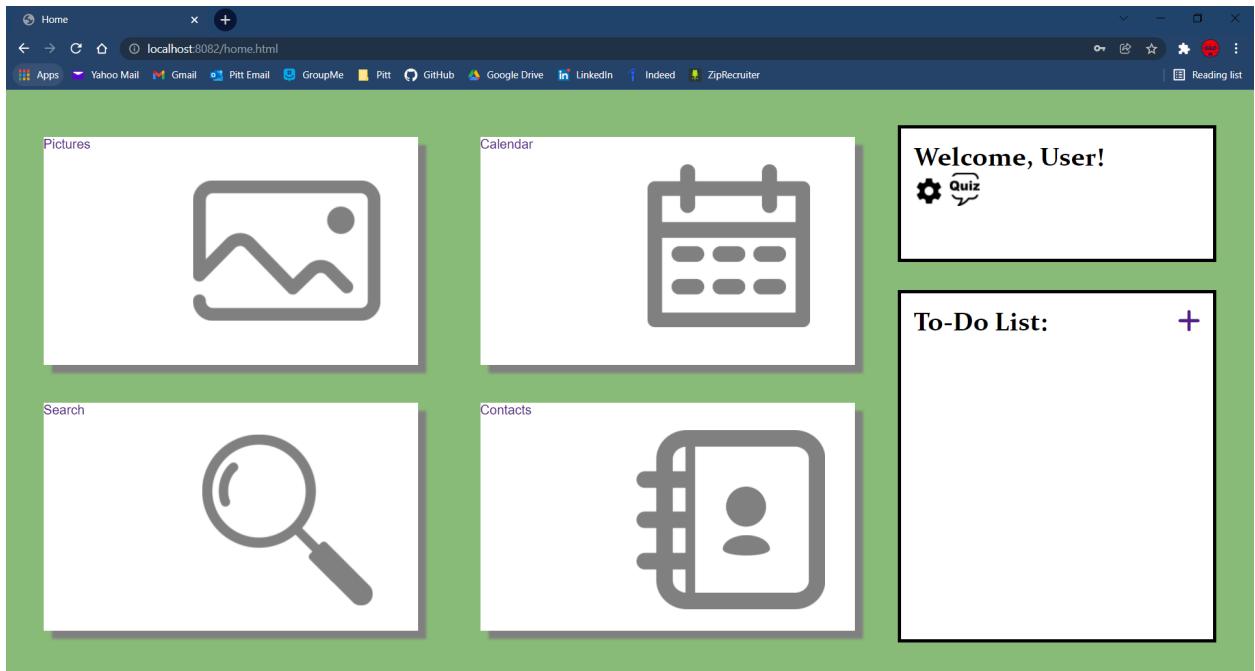


4. You can also add events to your calendar through the shortcut on the home page. In the “To-Do List” sidebar of the home page, click on the plus button in the upper right hand corner. This will take you to the above pictured event adding screen.

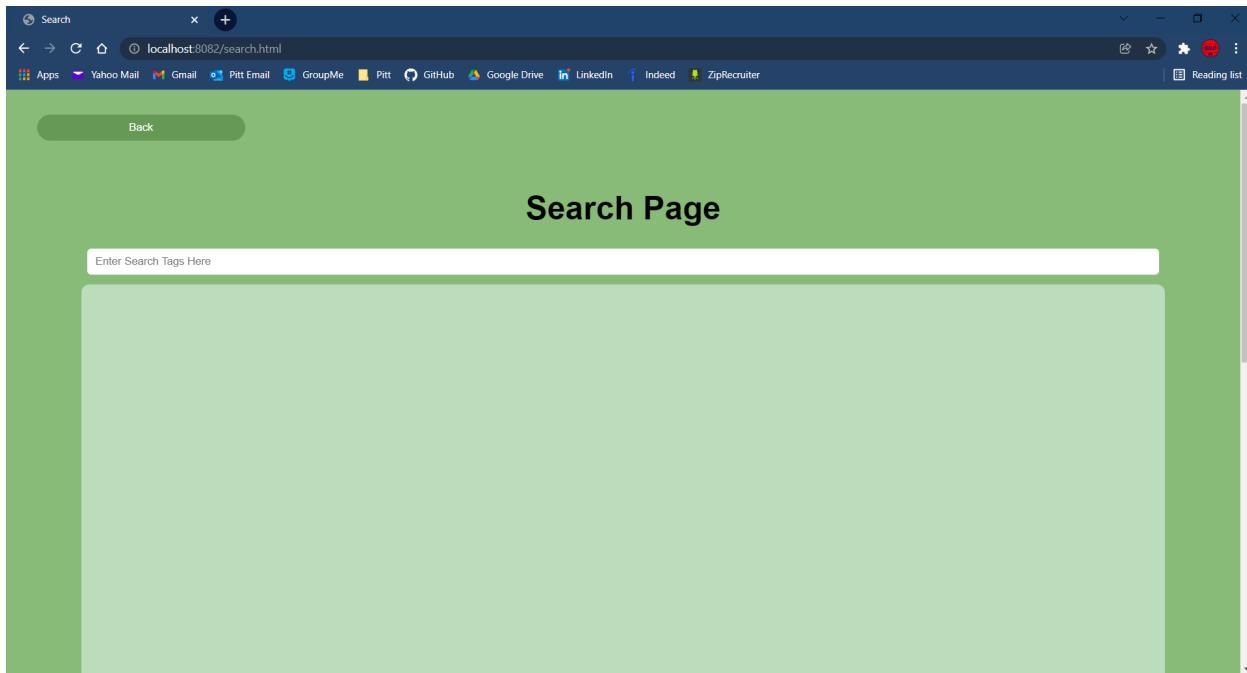


v. Searching for Content

1. From the home page, click on the Search pane in the bottom left quadrant of the screen.

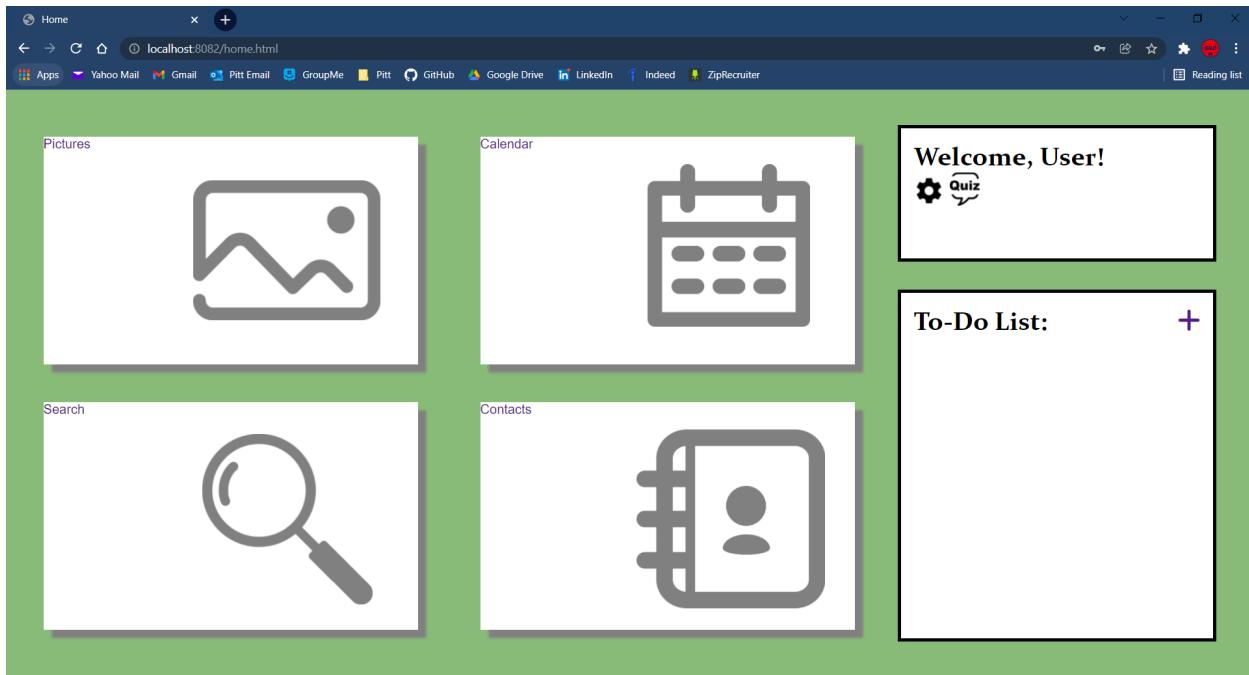


2. Type in the tags you'd like to search with. All relevant contacts, photos, and calendar events will be displayed that correspond to the tags you enter.

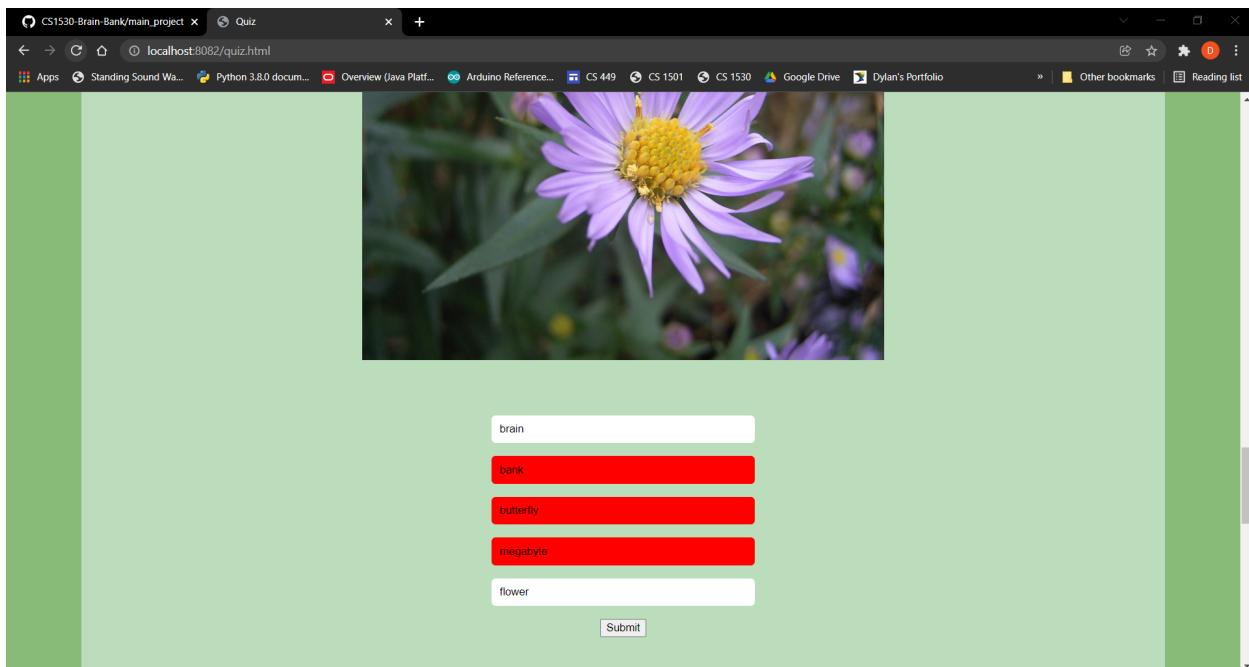


vi. Taking a Quiz

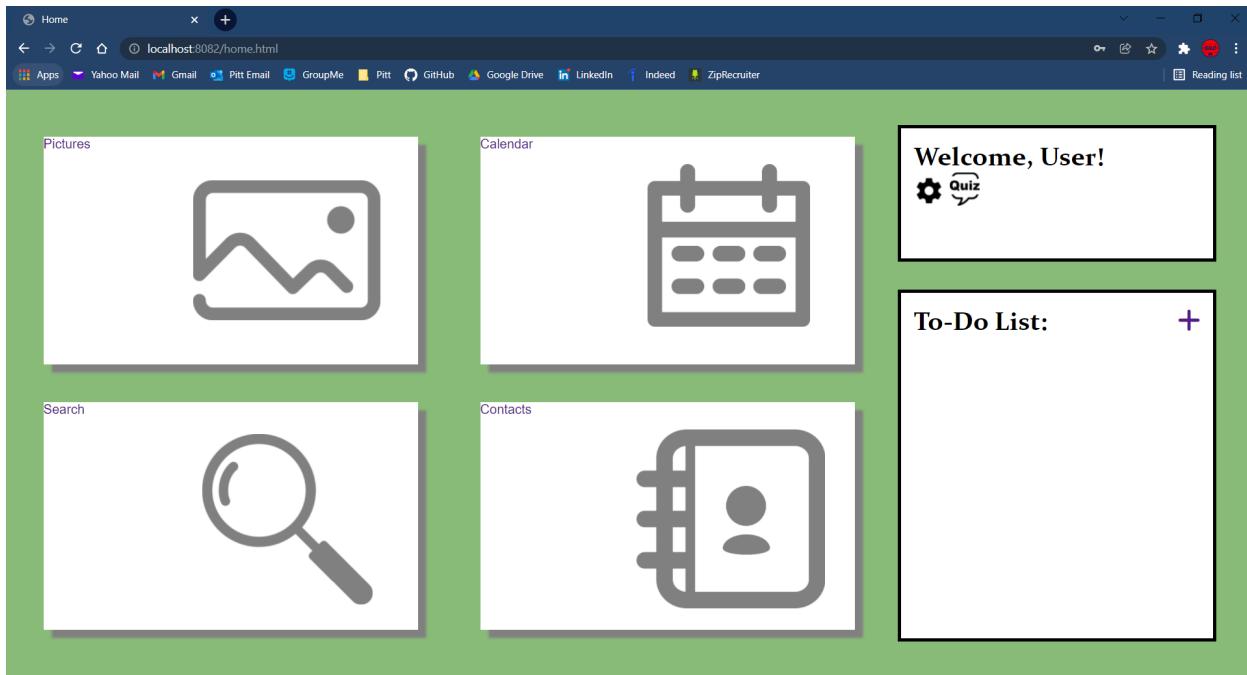
1. To exercise your brain's memory functions, Brain Bank offers personalized quizzes you can take to practice your knowledge on the content you have entered in your database.
2. To take a quiz, click on the "Quiz" button underneath the welcome message displayed in the top right corner of the home screen.



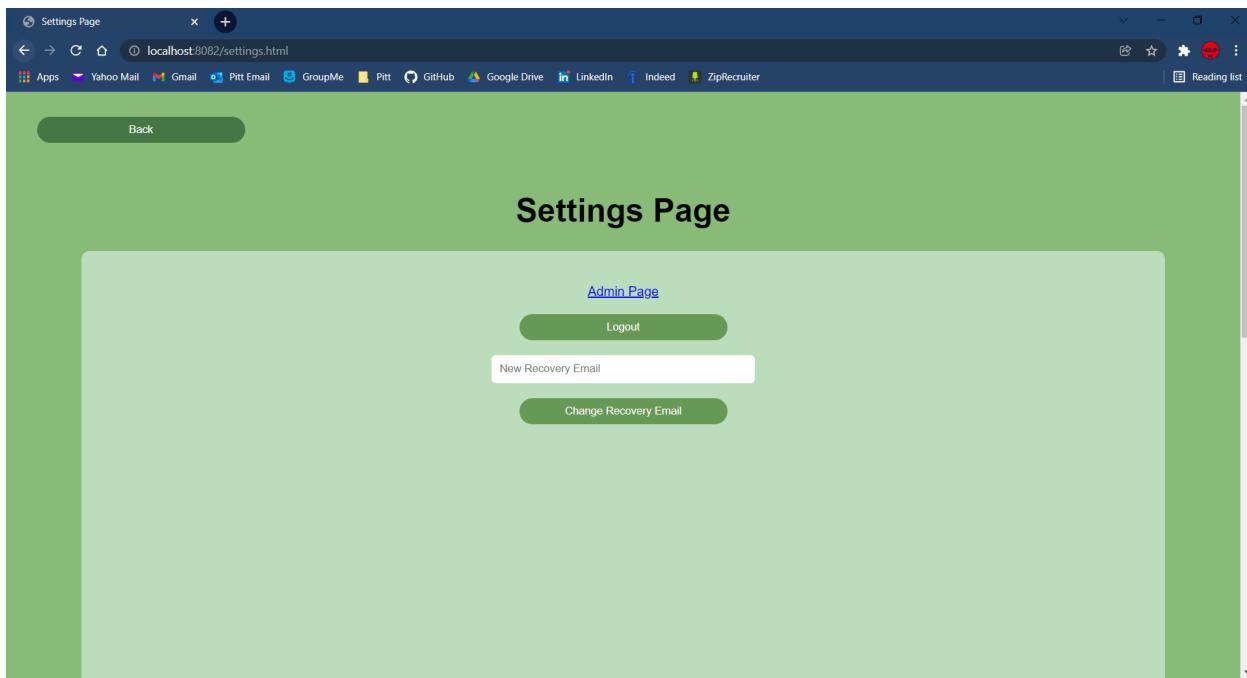
3. If you have added 5 or more tagged photos in your database, a randomly selected 5 will appear, and the text boxes on the bottom of the page is where you can guess tags. After clicking submit, text boxes that show up red indicate those answers as incorrect.



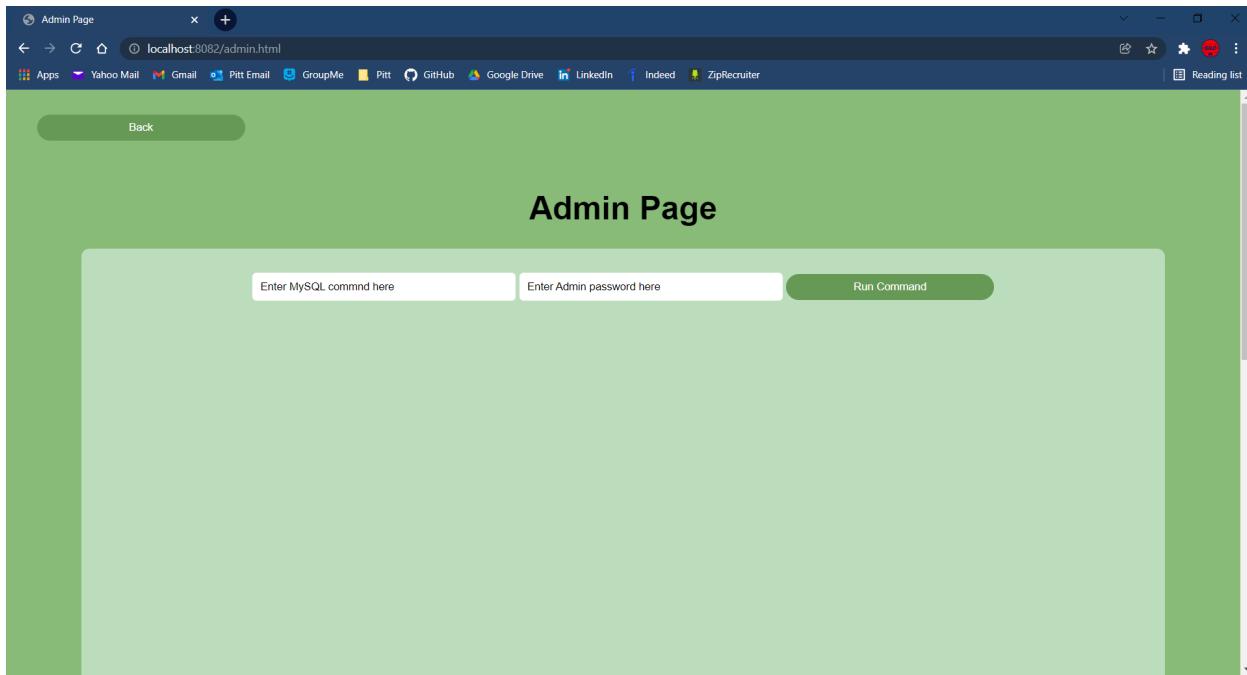
vii. Account Management



1. To change the content of your account, click on the gear located beneath the user welcome sign in the upper right hand corner of the home page.



2. Click on the "Admin Page" button to enter into Admin mode and directly input SQL commands into the database.



3. Click on “Logout” To log out of your account and return to the login page.
4. Enter a new recovery email and click “Change Recovery Email” to change your recovery email.

3. Modes of operation

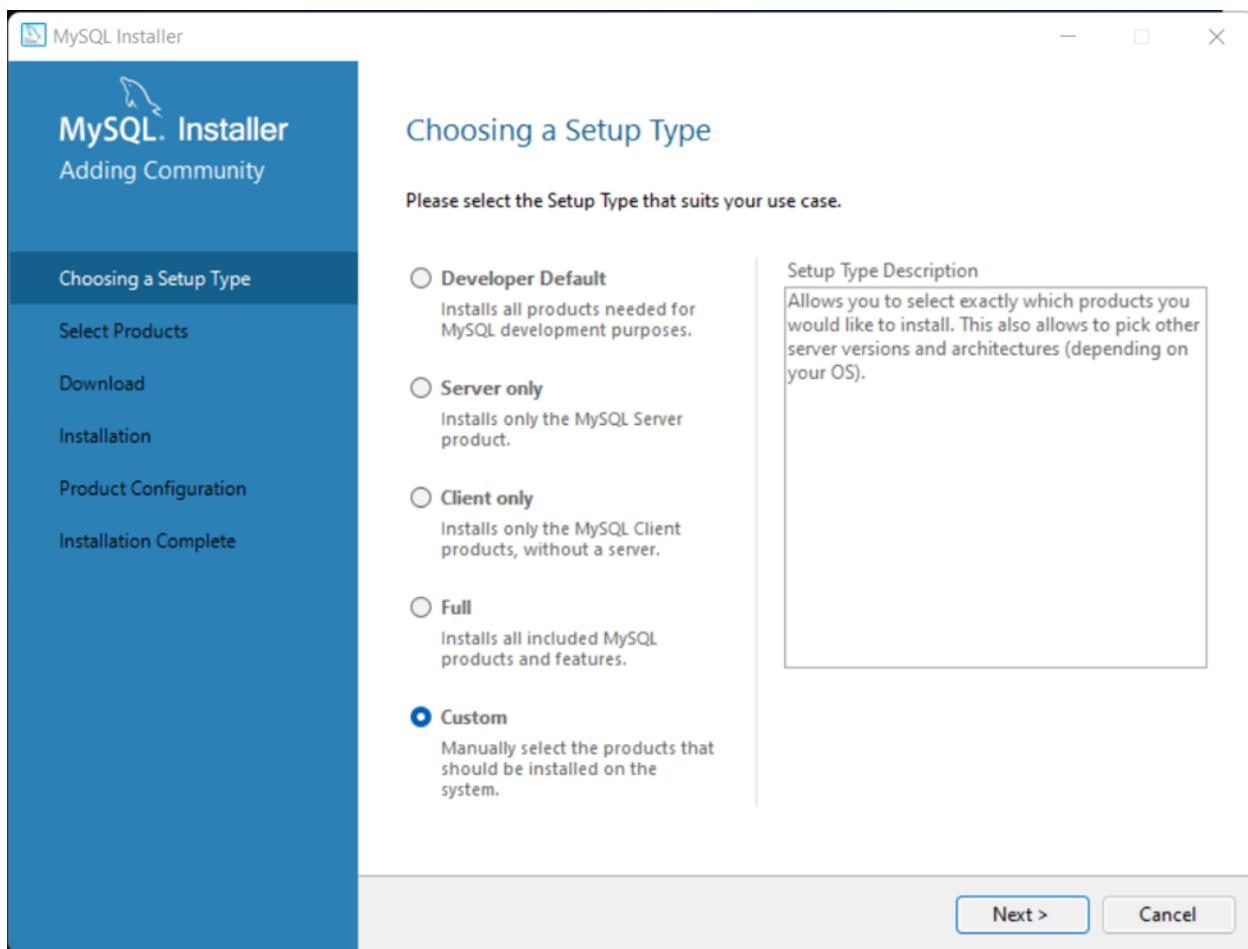
- a. Users can interact with the system and with their profile through a web-based user interface. Clickable dashboard panes are placed on the home screen so users can click on one of them to take them to that specific page. Dialogue boxes are implemented for the search functionality as well as the log-in and sign-up information. Other clickable buttons will be used for confirming photo uploads and other basic functionality. Any database manipulations are done behind the scene such that the user only has to interact with the front-end developed interface.
- b. The hidden backend database that runs the site will be responsible for most of the functionality of the site. The creation of contacts, pictures and other site content will be stored securely in a database that can then be searched and cross-referenced via the search page.

Software Installation Procedure

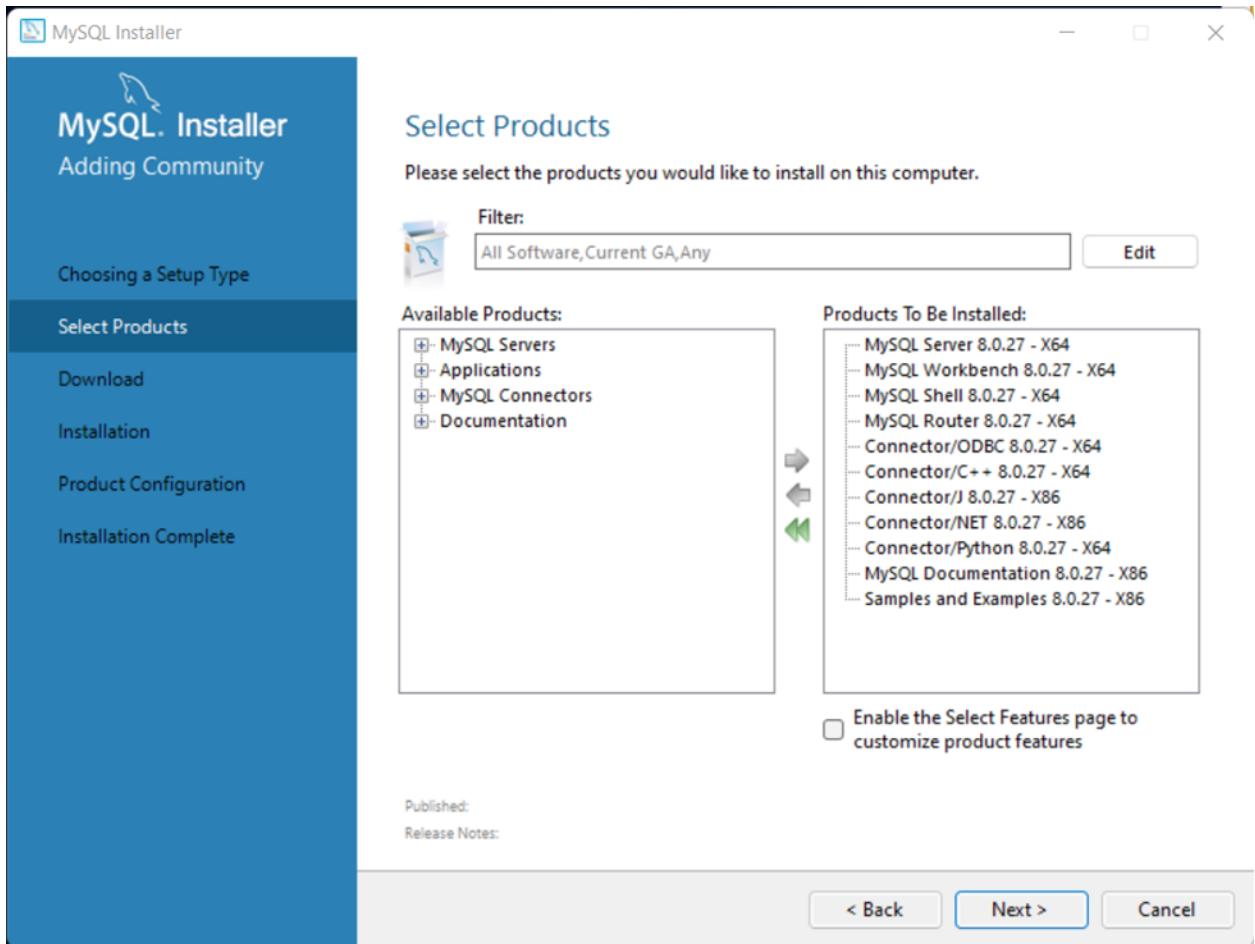
Before anything, open up make sure to uninstall any pre-existing MySQL or Nodejs installations.

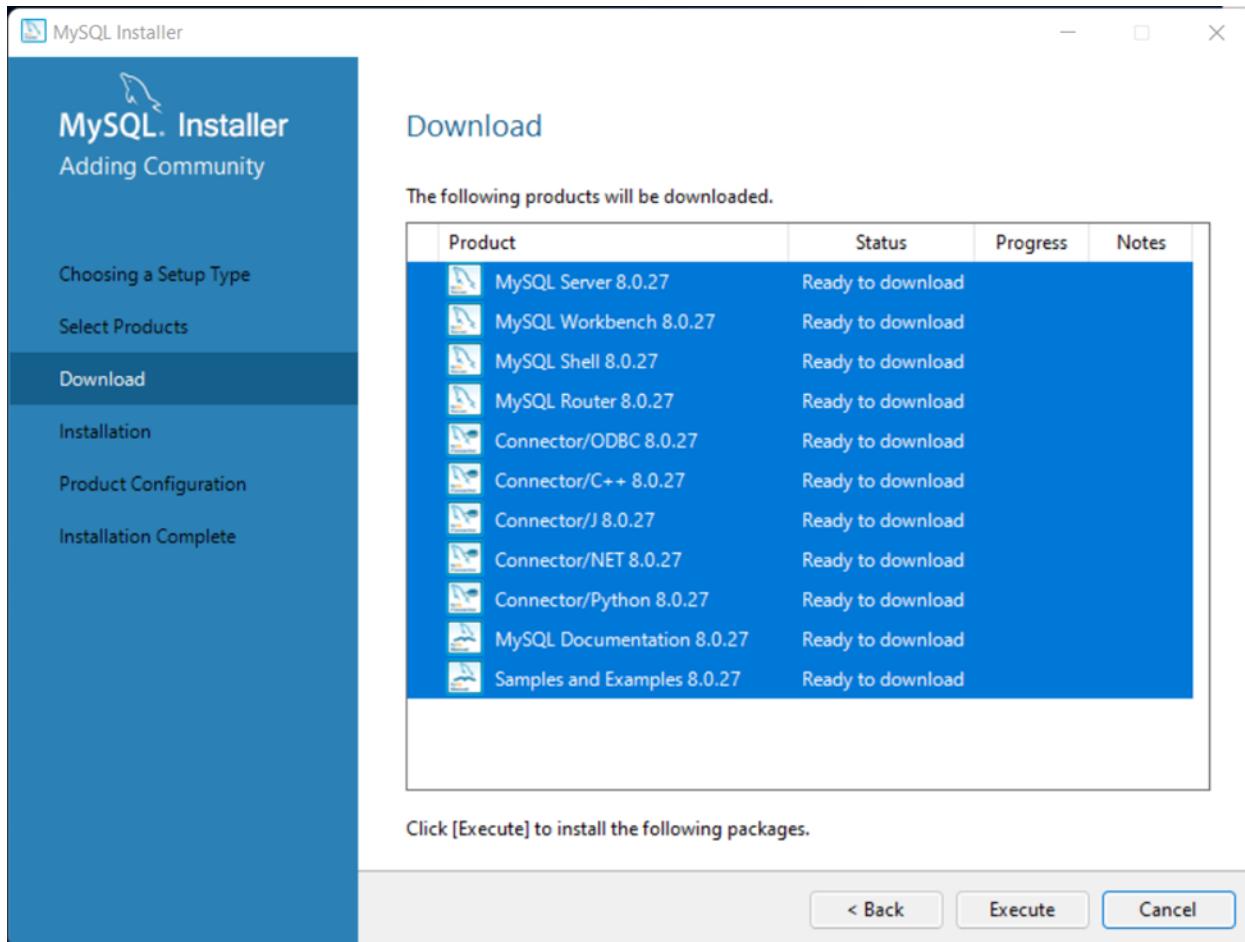
MySQL Installation:

1. Download the installer at <https://dev.mysql.com/downloads/installer/>. Choose the 2.3MB “web” version.
2. Run the installer.

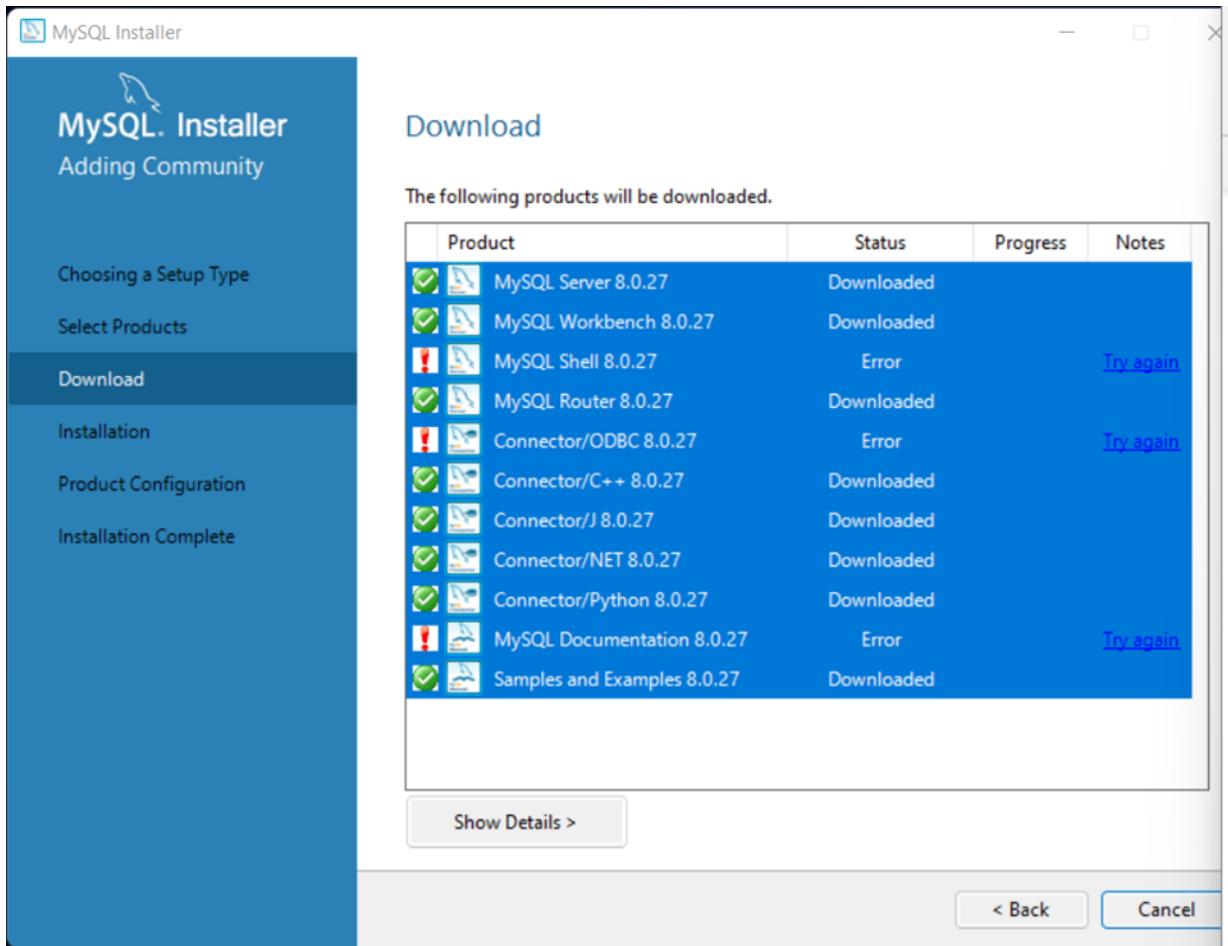


3. For **Select Products**, select the **MySQL for Visual Studio** and remove it from the *products to be installed* column.

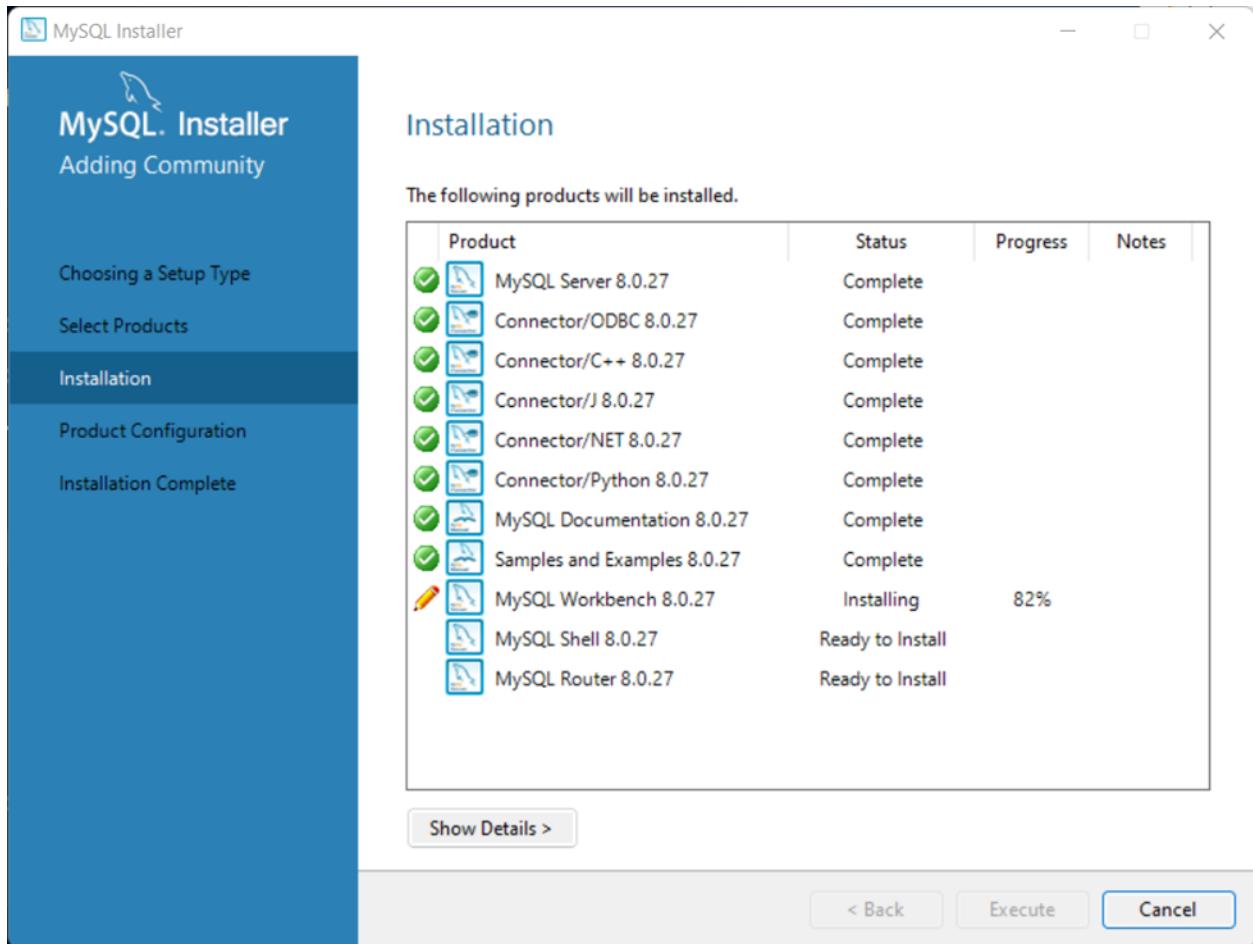




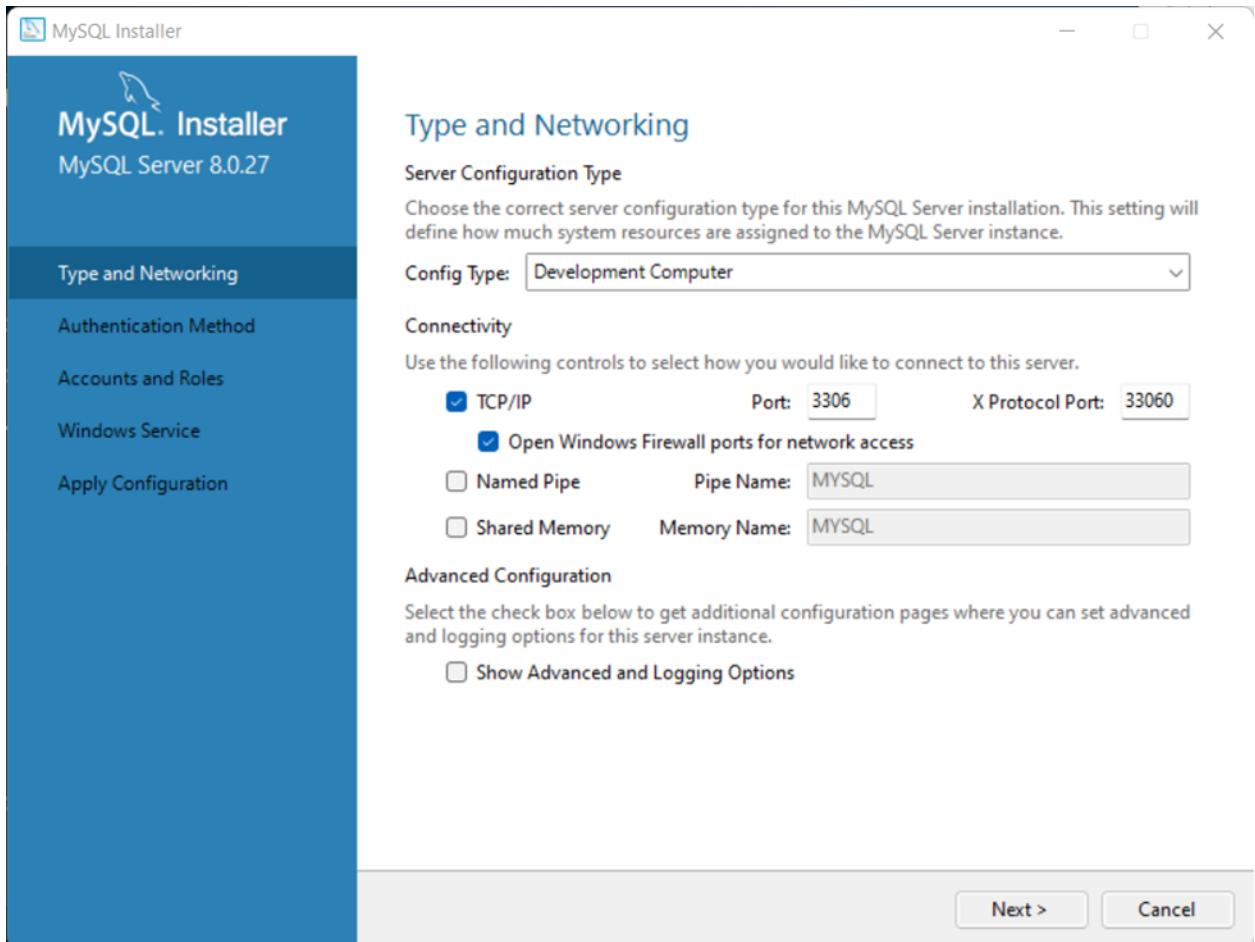
4. Then click execute. If anything fails, just keep clicking try again one at a time. Not sure why this happens.

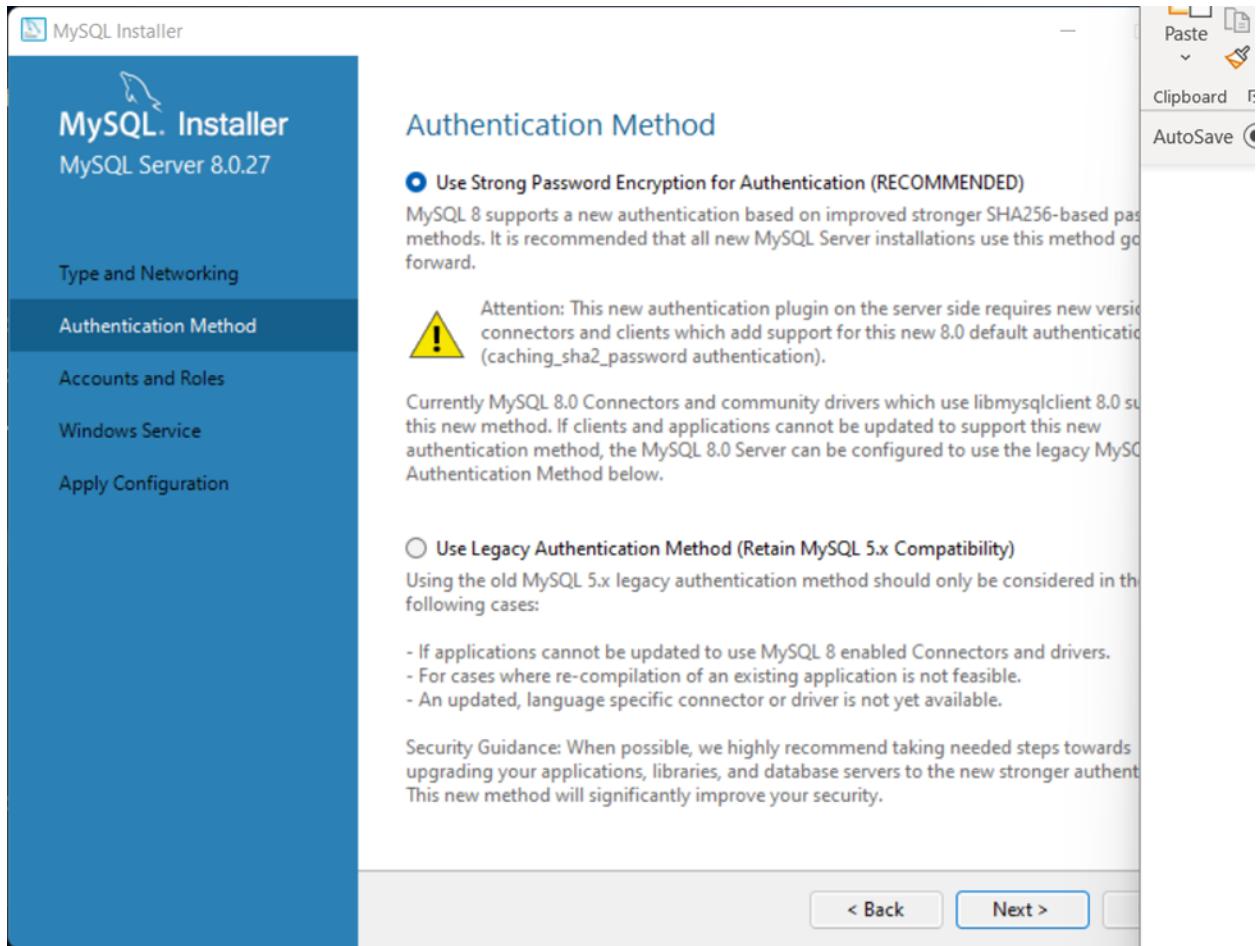


- Once all downloaded, click install. Get a snack, this takes some time.



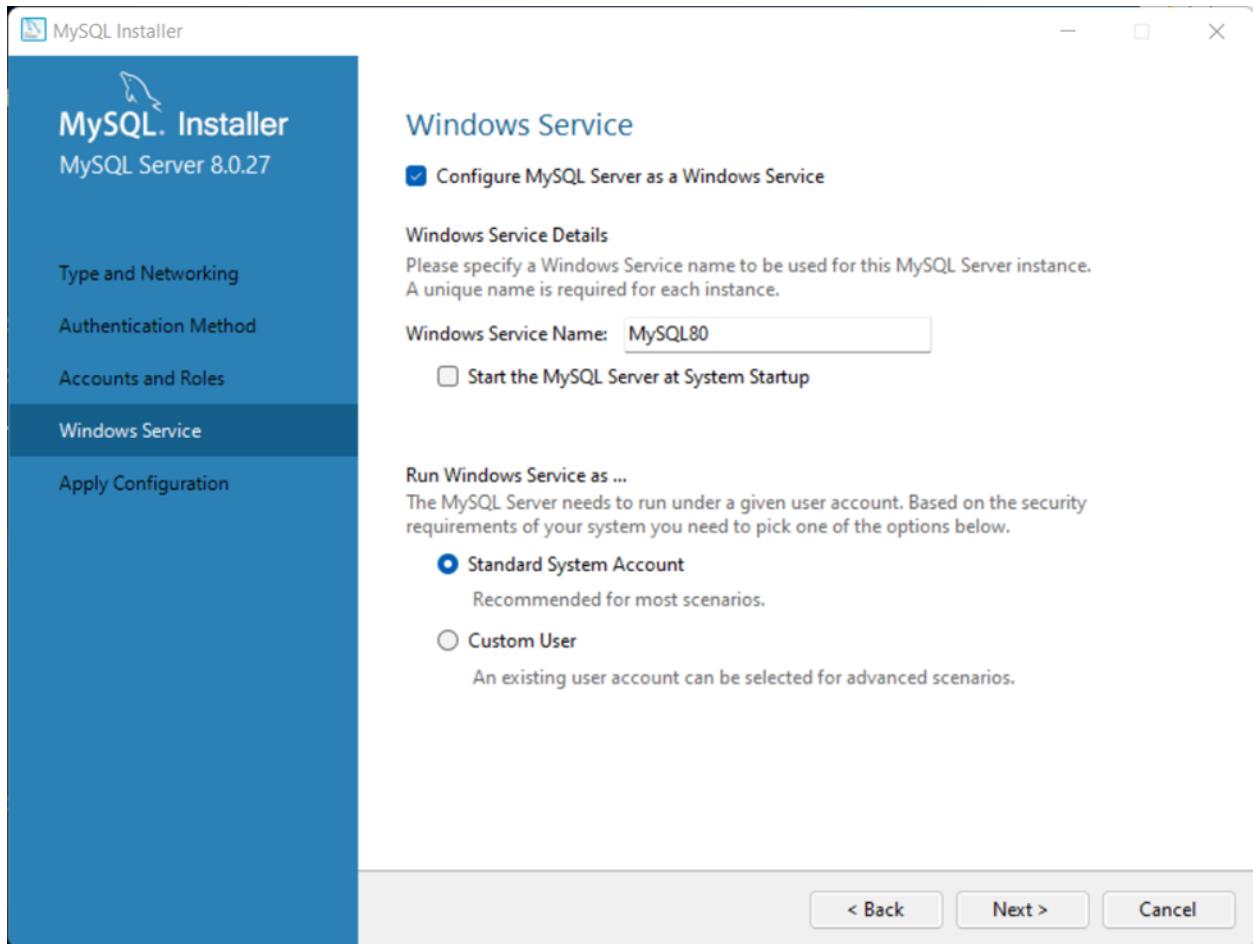
6. After install, click next to enter configuration.



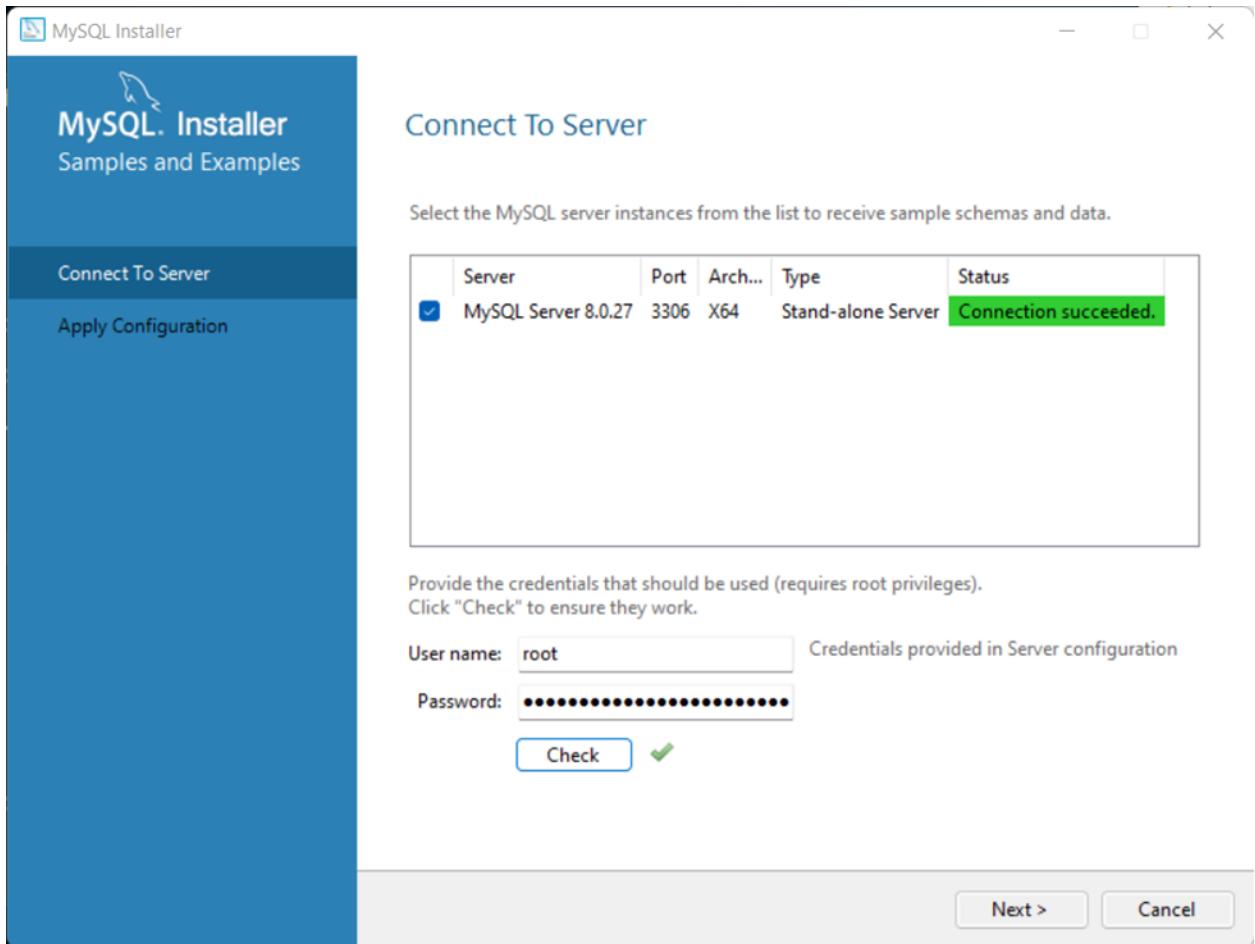


7. root password:

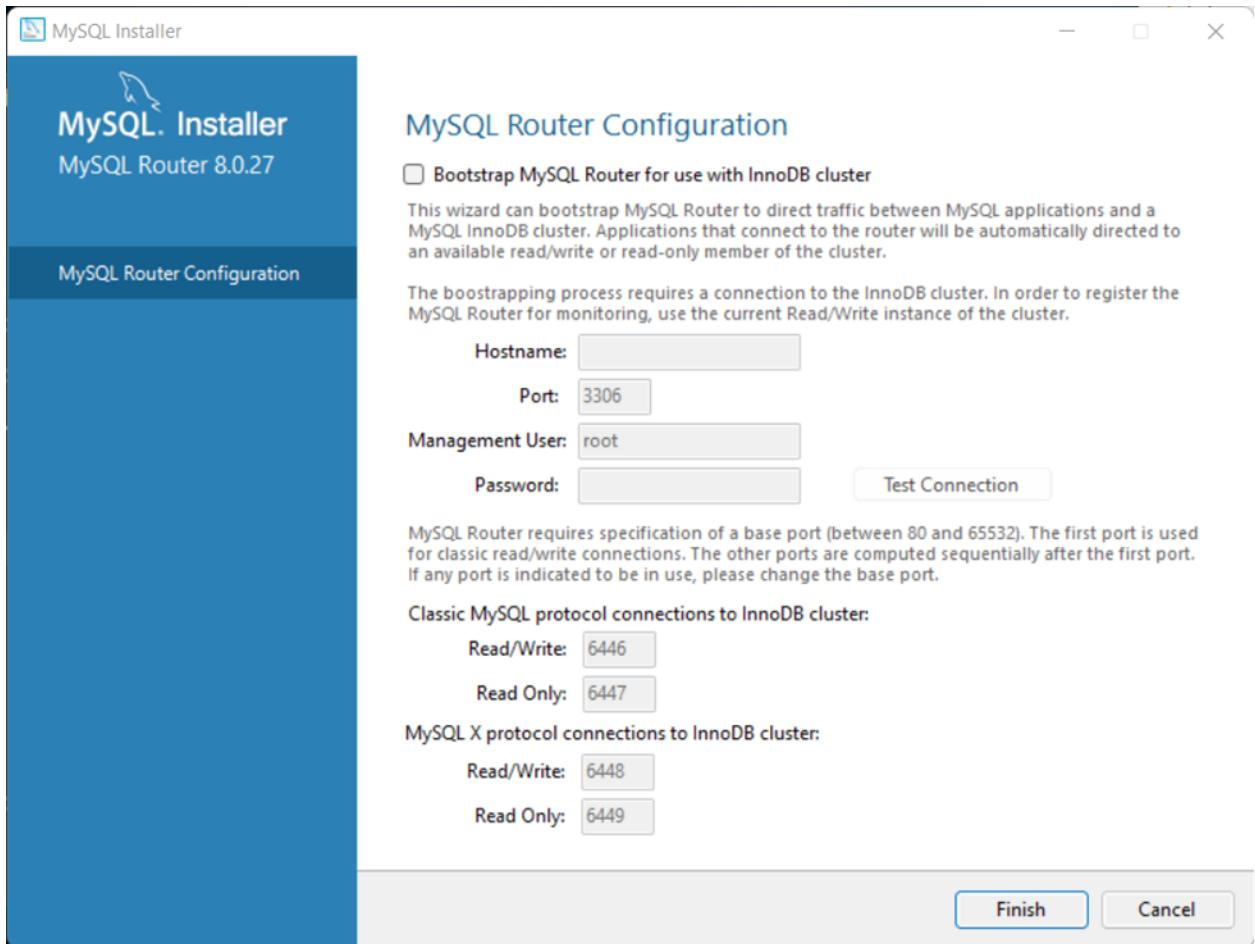
977EB4CCA8559B0F7C9E920188A7084ED29248CDD12B979C58A19E7ADF57AF80



8. Click next then execute. Once Server is configured, click finish, then click next for more configuration.



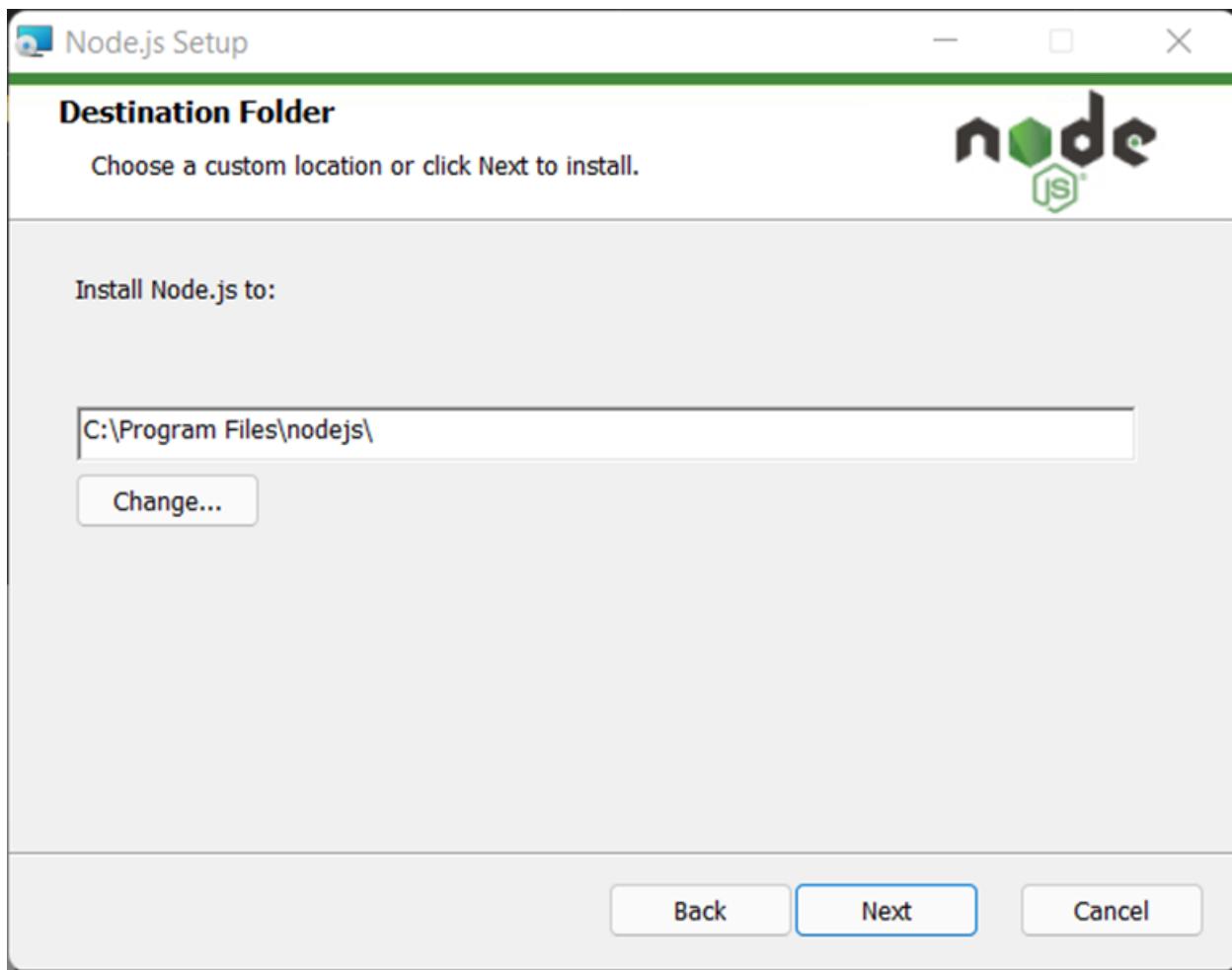
9. Again, click next, then execute, then finish once config is done.
10. Then click next to configure the router.



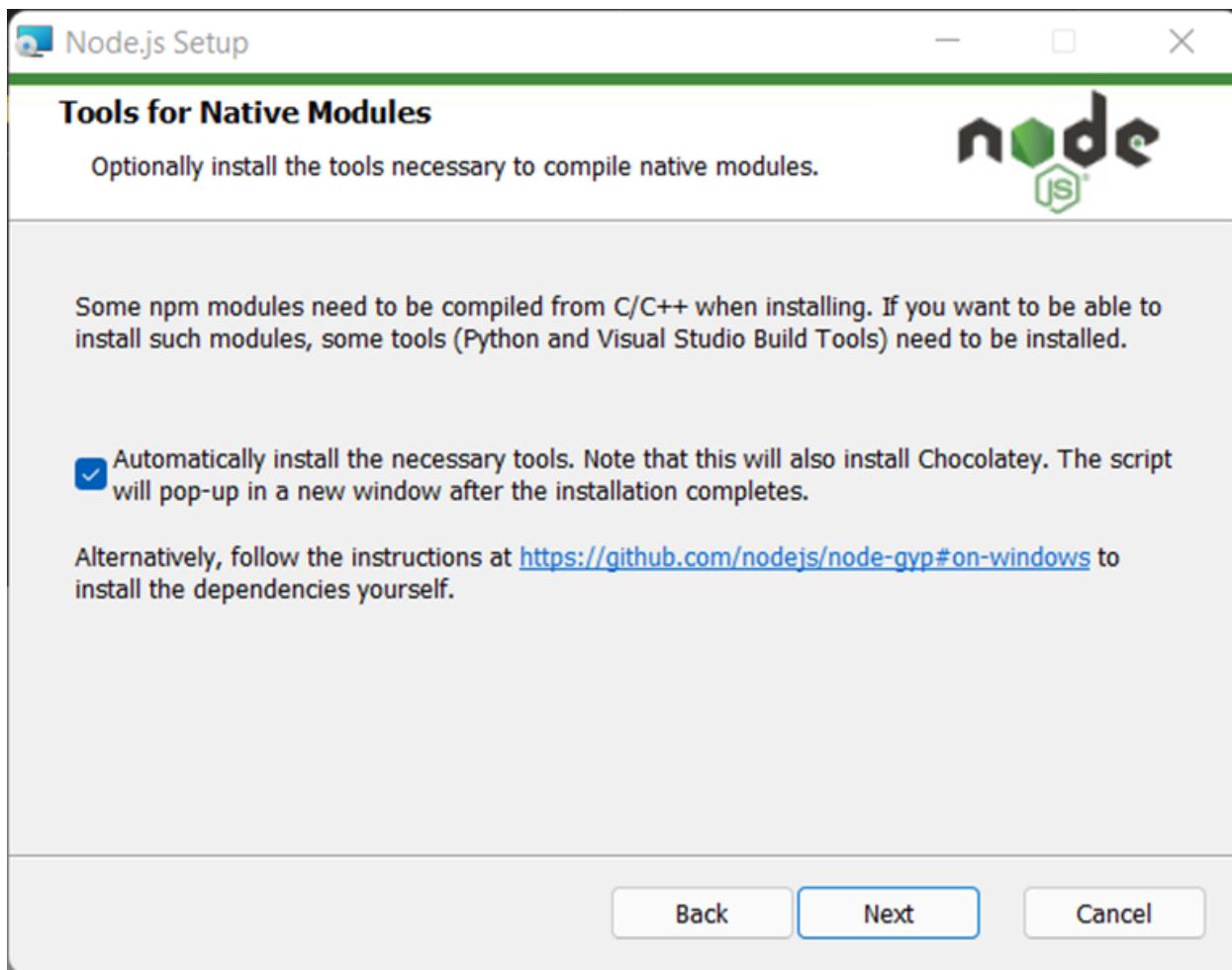
11. Click finish, then next, then finish again.

NodeJS Installation:

1. Download the installer at <https://nodejs.org/en/download/>. Choose windows installer “node-v16.13.0-X64.msi”.
2. Run installer:



3. Keep the default directory!



4. Click next, then Install, then finish.
5. A command window will open up to install extra tools. It should say *Press any key to continue* Press any key, follow those instructions. This takes some time too.

System Initialization:

1. Open a terminal to execute commands.
2. Navigate to the project directory.
3. Type: pip install npm
4. Now, add the npm bin folder to your environment variable for system *path*.
 - a. C:\Program Files\nodejs\node_modules\npm\bin – Here is where mine installed, so add this path to your *PATH* system environment variable.

5. Now, in same terminal at project directory, type: npm init
- Press enter without entering anything, except type server.js after (app.js)

The screenshot shows a terminal window with the following content:

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\dbutl\OneDrive - University of Pittsburgh\Fall 2021\CS 1530\Project\Github\main_project> npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

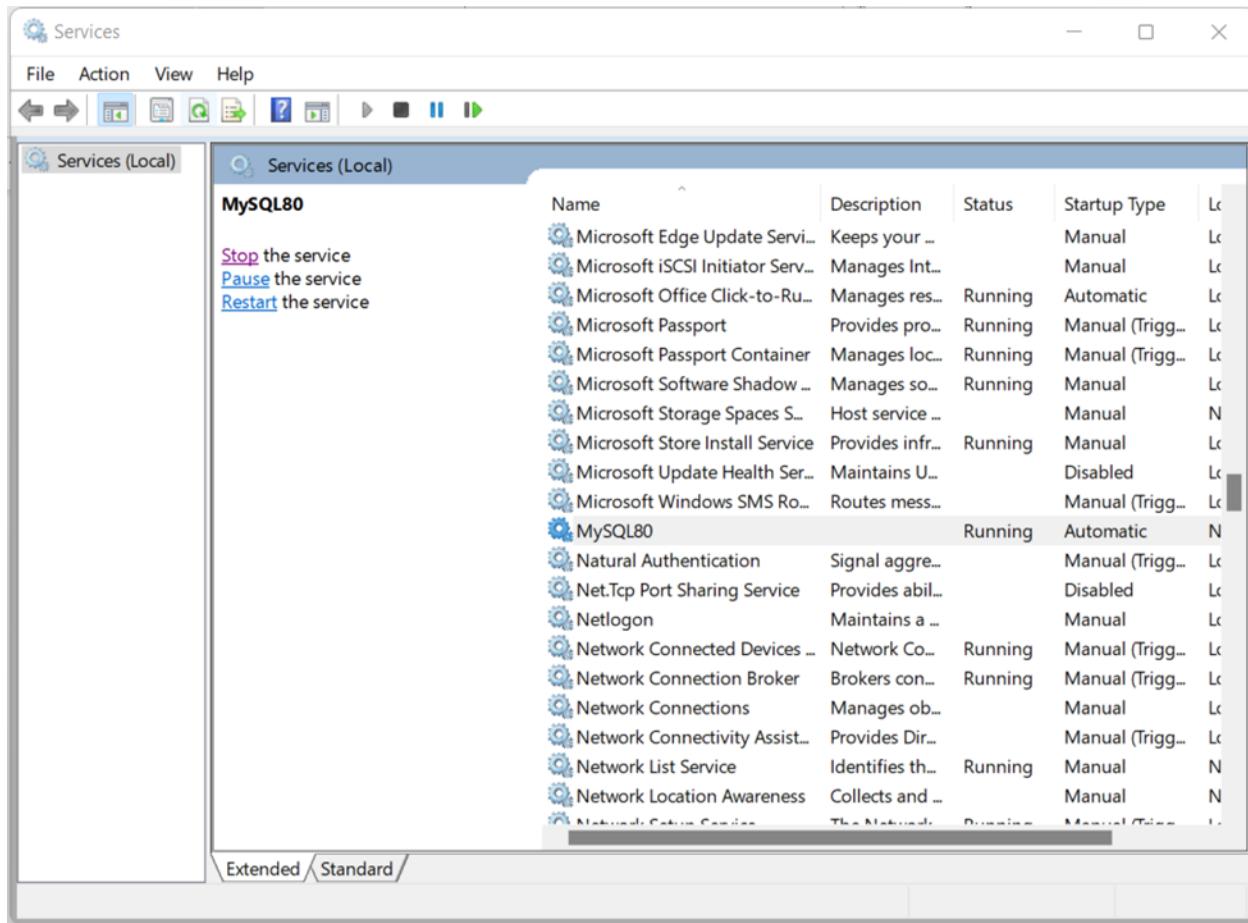
See `npm help init` for definitive documentation on these fields
and exactly what they do.

Press ^C at any time to quit.
package name: (main_project)
version: (1.0.0)
description:
entry point: (app.js) server.js
test command:
git repository: (https://github.com/CS1530-Brain-Bank/main_project.git)
keywords:
author:
license: (ISC)
About to write to C:\Users\dbutl\OneDrive - University of Pittsburgh\Fall 2021\CS 1530\Project\Github\main_project\package.json:

{
  "name": "main_project",
  "version": "1.0.0",
  "description": "",
  "main": "server.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "node server.js"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.com/CS1530-Brain-Bank/main_project.git"
  },
  "author": "",
  "license": "ISC",
  "bugs": {
    "url": "https://github.com/CS1530-Brain-Bank/main_project/issues"
  },
  "homepage": "https://github.com/CS1530-Brain-Bank/main_project#readme"
}

Is this OK? (yes) [
```

6. Now, type:
- npm install --save mysql2 express ejs
 - Npm install express-session
7. Should be good to go after this. You can run:
- node server.js* in command prompt, start the mysql service (seen below, search for and open services)



8. Will have to run the .js files to setup the database structure on your instance of MySQL for page to function. Can reach page at this url:
<http://localhost:8082/landing.html>