SIT725 – Individual Project ("The Project Shop"):

YouTube Link:
https://youtu.be/OXviud6CS4Y

GitHub Link:
https://github.com/M-S-Kashif/sit725-Individual-Project.git

Features:
-Cards with small blogs (Home Page)

-List of Projects (Project Page)

-Chat Feature (Contact Us Page)

-Parallax Animations (About Us Page)

-Order Forms (Order Items Page)

Dependencies Used:
-Express

-Body Parser

-MongoDB

-Socket.io

-Http server

-Mocha

-Chai

-Request

(Please note that there are some extra modules asides the above mentioned which were never used during the development :-D)

Instructions from the Repository:

<div align="center">(P.T.O)</div>

SIT725 - Individual-Project

Individual Project: The Project Shop

Hello there! This is the final iteration of my practicals as my Individual Project. I call it "The Project Shop". This is an amazing website for all sorts of Robotics Projects you can find and can order any of the projects or project components with this website. It is a very comprehensive web application which provides both direction and materials for young students to grow and develop with.

Features:

If you want to have a look of the features which the web application have explained over my video pitch. Please have a look at my link from YouTube.

These are some of the features in summary:

- Home Page --> Dynamic Cards with some text reveal on click.
- Contact Us --> Chat Feature using sockets.io.
- Projects --> Using MongoDB to access projects.
- Order Items --> Enter a form for creating an order reciept. It can also add suggestions for items as well but seperately.

Software Required:

The following program works with the help of the following software platforms:

1. We have developed our code using the Visual Studio 2019. Please follow the instructions from this link.
2. We have used Nodejs for our Server Framework. Please refer to this link for the installation process.
3. Please also install GitHub Desktop for making things much much easier! This will automatically provide you the download for your PC.

In case you already are a developer and need not to work on this, you can move on ahead!

Instructions for setting up the repository:

Please follow these instructions to set up your repository on your device:

1. Clone the Repository by clicking the "Code" Button in the top corner.
2. Click on the "Open with GitHub Desktop" which will automatically link the repository to the application. Please also refer this link as well.
3. Go to Documents --> GitHub (A folder will be created automatically on Installation). The repository you are looking for will be available.
4. Go into the repository and right-click for selecting the "Open with Visual Studio" option. This will open up the application in your Visual Studio.
5. Once open, please ensure that you have the the Solutions Explorer Tab present on the right of your screen.
6. If you don't have the tab present, please click from the Menubar on the top, "View" --> "Solution Explorer".
7. You would also need a Terminal, so again from the Menubar on the top, "View" --> "Terminal". A window should open from the bottom of the screen. Please refer to the heading below for the commands.

Installing Dependencies on the Terminal:

Now you are to install a couple of dependencies for your project to be fully functional. Please refer to the commands for the Terminal below:

```
npm install --save body-parser chai express express-session

npm install --save fs-extra mocha mongodb node-fetch

npm install --save nodemailer nodemailer-mailgun-transport nodemon

npm install --save request
```

After Installation, please ensure from your Package.json file for the Dependencies. This is how it will look (versions can differ) like:

```json
  "dependencies": {

    "body-parser": "^1.19.0",

    "chai": "^4.3.4",

    "express": "^4.17.1",

    "express-session": "^1.17.2",

    "fs-extra": "^10.0.0",

    "mocha": "^9.1.4",

    "mongodb": "^4.3.0",

    "node-fetch": "^3.2.0",

    "nodemailer": "^6.7.2",

    "nodemailer-mailgun-transport": "^2.1.3",

    "nodemon": "^2.0.15",

    "request": "^2.88.2"

  }
```

Creating scripts for the Terminal:

On the same file, we will now create a few scripts from the commands we already have (kinda...). Please ensure that these changes are available on the Package.json file:

```json
  "scripts": {

    "start": "node server.js",

    "start-dev": "nodemon server.js",

    "test": "mocha --reporter spec"

  }
```

We can now use these commands to run our application. This is how it is done:

```
npm run start
```

In case you want to test the application. This is the command for the Terminal:

```
npm run test
```

In case you want to contribute the application. This is the command for the Terminal:

```
npm run start-dev
```

Moment of Truth:

Now you will finally run the command for starting your application. Please head afterwards to the browser and type in the URL:

```
http://localhost:8080/
```

License

This is the license we have for our Repository

[MIT](#)

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