Key Masters SAI 2.0 Manual

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I. Overview

This manual will instruct you on how to get our application running and deploying. The sections in the following pages will guide you into this process by giving you clear and step by step instructions. The sections are outlined below:

- I. User/Administrator Manual
 - a. Setup
 - b. Running the application
 - c. Opening the application
 - d. Navigating through our application
- II. Deployment/Installation Instructions
 - a. Building an Angular application
 - b. Deploying an Angular application
 - c. Deploying our application using Firebase Hosting

I. User/Administrator Manual

This section shows you how to get around our SAI 2.0 application. It shows you what to click, what to type, and how to navigate our website.

A. Setup

To get you setup in opening our application, you need Visual Studio Code (VS Code) and NodeJS installed. If you don't have them installed, go to https://code.visualstudio.com/ and https://nodejs.org/en/ and download these tools. Once you have these tools installed, clone the GitHub Repository that we have provided to you to your terminal or shell. After you have cloned the repository, open it in VS Code.

B. Running the application

Now that you can open our repository in VS Code, we are going to show you how to run our application. Open the built-in terminal as shown in the image below.



To open the terminal, press <u>Ctrl+</u> on your keyboard. Since you are in the root directory, you need to navigate to the "sai2" directory by typing cd sai2 in the terminal. Now that you are in the "sai2" directory, type ng serve to run the application. If an error is being given to you after running the command, make sure to type npm i before running ng serve.

C. Opening the application

Now that you have our application running, it's time to open it in a browser. Using the browser of your choice, open our application by typing localhost: 4200 in the address bar. Alternatively, you can press Ctrl+click on the link provided to you in the terminal as shown below.

```
Build at: 2021-12-03T00:51:53.620Z - Hash: 40d130576e3ac4f9624f - Time: 8566ms

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

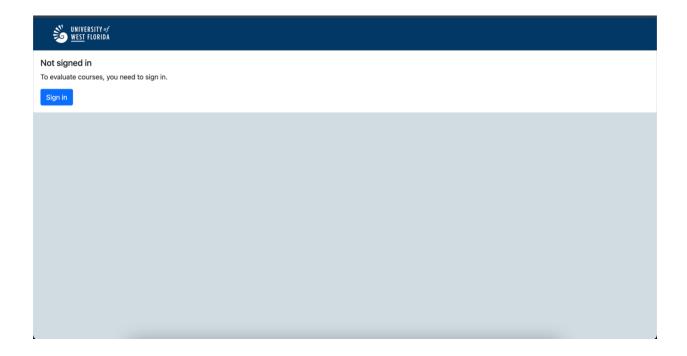
/ Compiled successfully.
```

This will take you to the landing page of our application.

D. Navigating through our application

Now it's time for some action. The first page you will see is the landing page of our application.

Click sign-in as shown in the image below.



You will then be directed to another page in which you are prompted to login with Google. Click the <u>Login with Google</u> button.

UNIVERSITY OF WEST FLORIDA	
Please Log in with Google Log in with Google	

You will then be directed to a window or page that makes you sign in with a Google account. You can either sign in as a student or professor using the credentials listed below:

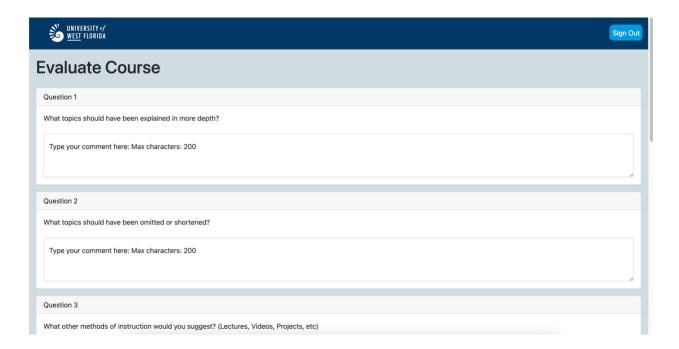
- The following are the credential for if you want to login as a student:
 - o Username: capstonestudenttest@gmail.com
 - Password: testingbase1
- The following are the credential for if you want to login as a professor:
 - Username: capstoneteachertest@gmail.com
 - o Password: testbase1

If you logged in as a student, you will be directed to a page as shown below:



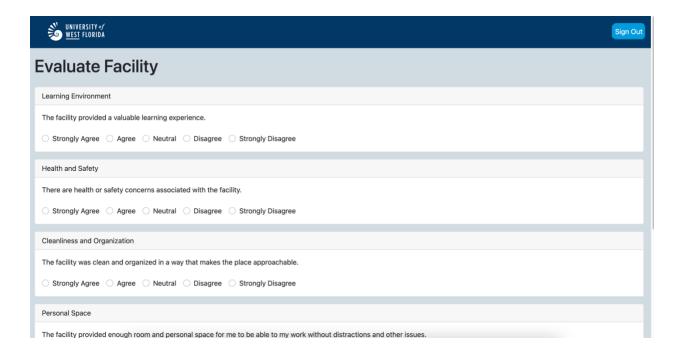
Browse the list of courses provided and you may evaluate a course of your choice. You may either evaluate the course first or the facility. To evaluate a course, click the <u>Evaluate</u>

<u>Course</u> button as shown in the image. To evaluate a facility, click the <u>Evaluate Facility</u> button as shown in the image. If you clicked <u>Evaluate Course</u>, you will be directed to a page in which you can evaluate the course of your choosing as shown in the image in the following page.

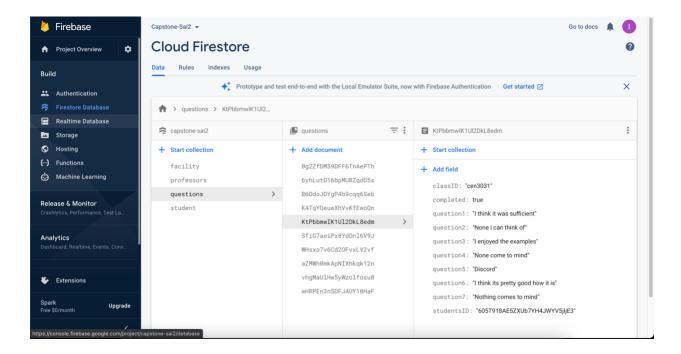


Answer the questions provided, then click <u>submit</u> once you are finished. To return to the list of courses, click the back button of your browser.

If you clicked <u>Evaluate Facility</u>, you will be directed to a page in which you can evaluate the facility of the course you chose as shown in the image.



Answer the questions provided, then click <u>submit</u> once you are finished. All your answers from either the courses or facility will be submitted to the Firestore database we have provided you as shown below.

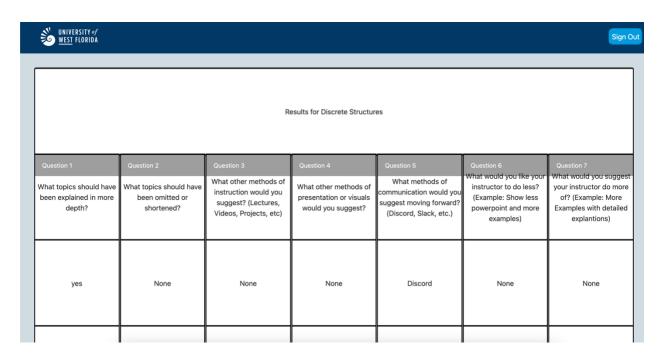


To return to the list of courses, click the back button of your browser. Once you are finished evaluating courses or facility, you may sign out by clicking the <u>Sign Out</u> button on the top of the page.

If you logged in as a professor, you will be directed to a page as shown below:



Browse the list of courses provided and view feedback submitted by the student. To do that, click the <u>Student Feedback</u> button. Once you have clicked it, you will see a list of responses provided by the students as shown below.



To return to the list of courses, click the back button of your browser. Once you are finished viewing student feedback, you may sign out by clicking the <u>Sign Out</u> button on the top of the page.

II. Deployment/Installation Instructions

When the application is ready for deployment to a remote server, there are different options for it. This section will instruct you on how to deploy it using Firebase hosting. Sections A and B are not steps in deploying the project using Firebase hosting. They are just additional info that you may need to understand how deployment works in Angular.

A. Building an Angular application

Before fully deploying, you can test the process, build configuration, and deployed behavior by using the techniques provided. During development, the ng_serve command is normally used to build, watch, and serve the application from local memory, using webpack-dev-server. When you are ready to deploy, you must use the ng_build command to build it and deploy the build artifacts elsewhere. This command writes the generated build artifacts to the output folder. Serving the contents of the output folder from a local web server can provide a better idea of how the application will behave when deployed to a remote server. Two terminals are required for this. To open two terminals, click the "+" button on the top right-hand corner of the built-in terminal on VS Code.

On the first terminal, run ng build -watch

On the second terminal, run lite-server --baseDir="dist/sai 2"

B. Deploying an Angular application

The command ng deploy executes the deploy CLI builder associated with the project. Third-party builders implement deployment capabilities to various platforms. You can add these platforms to the project by running ng add [package name] in the terminal provided in VS Code. Doing this automatically updates the <u>angular.json</u> file with a deploy section for the selected project. For example, to deploy our application using Firebase run the following commands in order:

- 1. ng add @angular/fire
- 2. ng deploy

The command is interactive, meaning you need a Firebase account and authenticate it using the account. It prompts you to select a Firebase project for deployment. Then, it builds your application and uploads the production assets to Firebase.

C. Deploying our application using Firebase Hosting

The steps below show you how to deploy our app using Firebase hosting:

- 1. Install the Firebase CLI
 - a. To do this, run npm install -g firebase-tools in the terminal
- 2. Initialize the project
 - a. To do this, run npm firebase init hosting
 - b. This command first prompts you to select a firebase project. The selected project is our default Firebase project for our local project directory so select that.
 - c. The second prompt asks you to specify a directory to use as the public root directory. The default is called public, so that is what we are going to use.
 - d. Then last prompt ask you choose a configuration for the site. For our purposes, just say no to the rest of the prompts until initialization in complete.
- 3. Deploy the app
 - a. To do this, run firebase deploy -only hosting

- This command deploys the hosting content and configuration to the following subdomains.
 - i. Project_ID.web.app
 - ii. *Project_ID*.firebaseapp.com

With these steps, you have been instructed on how to deploy our application. To view the deployed site, simply enter the provided URL or subdomain into the address bar of your browser.