FBLA Script Coding and Programming:

---Part 1---

Intro:

Hi Everyone, my name is Rishabh Mandayam and I am a junior at Staples High School. Today I will be demonstrating how my web application to log community service hours works.

Create account:

To create a new account for example an organization named gracious givers, click on the create account button and enter the name of the organization and email, and the organization is registered.

Logging In:

To sign in, click on the sign in with Google button and log in with the registered email.

Adding Students:

As you can see, I have not added any of my students yet so my Student Information table is empty. I am going to add my first student. His name is Adam Smith and is a sophomore. As of now, he has not logged any hours and has no awards. I am going to add one more student. Her name is Lowri Anderson and she is a freshman who has also not logged any hours.

Dashboard:

When I go back to the Dashboard, my two new students are added. It seems that I misspelled Adam's name. I wrote Adad instead. It's okay, I can fix this by turning edit mode on, editing his name, and clicking save. The database has been updated and Adam's name is spelled correct.

Adding Entries:

I recently learned that Adam Smith did volunteer last year and logged hours. To log those hours, I need to navigate to the Add Entries page. I will enter the hours and the date he volunteered, and submit the entry. Now, when I go back to the Dashboard, Adam's hours are updated. I can also view the entry by going to the entries page.

Adding Awards:

Lowri worked 5 hours today and donated 100 dollars, qualifying her for the Silver Donor award. To log these hours and this award, I once again need to navigate to the Add Entries page. I will add the hours and the awards, and add today's date, and submit the entry. When I go back to the Dashboard, Lowri's hours and award are updated.

Deleting a Student:

Lowri has decided that community service is not for her and has left the organization. I am going to delete her from the database. I will navigate to the delete student page and enter her ID. All of her information pops up, and I am going to confirm that I want to delete her. Now she is deleted. When I go back to the Dashboard, she is gone. Her hours are still stored in the entries page

--Part 2--

To show more complex features of the web app, I am going to use a different account. I will sign in using an organization named Happy Helpers. As you can see, I have been adding information to this account.

Printing and Exporting:

First I will show you how to print a report. To print a report, I just need to click the print button, and it pulls up the printer pop up and I can just hit print. If I want to export it as a PDF, I can click the export to PDF dropdown and the PDF downloads. When I click on it, a nice pdf shows up with all of the student information. I can do the same to download a word file, and an excel file.

Monthly Reports:

Now I want to show you how to get monthly and annual reports. I first need to navigate to the monthly reports page, and as you can see I have a table with all of the entries logged. Let's say I only want to see the reports in February. I can enter the date, click generate report, and I have all of the entries. I can do the same thing to get the reports in January, and to get the reports in March. As you can see, all of the reports in March are displayed

Annual Reports:

I can do the same things for the Annual Reports. I can click on the annual reports page, and I have a table with all of the entries logged. Lets say, I want to see the reports in 2020. I can enter the year, and all of the entries in 2020 show up. I can do the same for 2019. I have one entry in 2019, I can click generate, and that entry pops up. Once again, I can still generate and print the reports

Help Page:
Let's say that I am still confused about something or I want to learn more about a feature. I can either click on the help button or navigate to the help page using the side menu. I am going to click on the help button but they navigate to the same page. Now I am on the frequently asked questions page. I can use the search bar at the top to search for how to add a student. Click search and then click on the link, and a nice set of instructions pops up.

User Documentation:
If I want further clarification or want to learn more, I can click on the documentation page and the user documentation pops up. The documentation is complete with detailed instructions and screenshots on how to use the web app

Database:
Now I want to show you the database. All of the data is stored in firebase, which is a nosql database. All of the data is stored as JSON, and this is a nice visualization of the data. The data is secured by firebase, so only an end user with a unique api key that is also authenticated by Google can access the data.

Backups:
All of the data is backed up. Firebase provides daily backups and all backups that are older than 30 days old are deleted to save space.

Outro:
Thank you so much for listening and I hope you had a good time.