Student’s Full Name: Hieu Dang

WEEKLY Log #10

From: 11/06 To: 11/13

Today’s Date: November 13, 2023

Name of Agency: University of New Hampshire

Number of Hours Worked this week: 10 hours.

Cumulative Hours to Date: 117 hours

Individual’s Weekly Log

I. Accomplished tasks this week:

1. Switch to another plan.

- As I researched, the Firestore and Realtime Data do not support well for the existing projects and the use of them is not what I need for this project. The Firestore and Realtime Data have to be set up manually since the project started and they do not read the backend code, in this case, they do not read Django’s code, which I cannot use to deploy my app like I did on Azure. I decided to switch to another plan that uses Firebase and Cloud Run to host the app.

2. Research about Cloud Run and Firebase Hosting

- The problem was that to host a Django app, we could not use only Firebase Hosting or Cloud Run, we had to use both to deploy the app completely. The reason is Firebase Hosting only supports static websites, and for Django’s app it is barely possible. Cloud Run will deploy our apps as a package, then the Firebase Hosting will HTTPS request directly from that Cloud Run. Technically to deploy a Django app on Firebase, we have to deploy our app’s package using Docker and deploy them on Cloud Run, then deploy to Firebase. Which makes this more tedious than the Azure one.

II. Tasks in the process this week.

1. Set up a Cloud Run account.

- To use the Cloud Run service from Google, it will require a billing account, which means I have to use my credit card to activate it. Likewise, Amazon with its AWS, they one to identify and secure the user at the high-end level. Cloud Run will not charge up to 2 million requests per month, if the requests are beyond, they will charge $0.4 for a million requests.

III. Tasks to be started next week.

1. Deploy my sample app to Cloud Run and Firebase with Docker.

- The procedure will be the same as I did on Azure, using the sample app to figure all settings and get it ready for my real project.