**Documentation of Work**

**July 10**

**Project Setup and Initial Research**

1. **Installed Necessary Tools and Libraries:**
   * **Python and Flask:**
     + Installed Python and verified installation.
     + Created and activated a virtual environment.
     + Installed Flask and verified installation.
   * **Node.js, npm, React.js, and Tailwind CSS:**
     + Installed Node.js and npm and verified installation.
     + Created a new React app using Create React App.
     + Installed Tailwind CSS and configured it for use in the React app.
   * **Hugging Face's Transformers:**
     + Installed the transformers library and verified installation.
   * **Rasa:**
     + Installed Rasa and verified installation.
   * **Git and GitHub:**
     + Installed Git and verified installation.
     + Set up a GitHub repository and cloned it locally.
2. **Initial Research:**
   * **Hugging Face's Transformers:**
     + Explored the documentation and tried out basic examples to understand usage.
   * **Flask Basics:**
     + Read through the Flask Quickstart guide and created a simple "Hello World" Flask app.
   * **React.js and Tailwind CSS:**
     + Followed React Getting Started Guide and Tailwind CSS Guide.
     + Created basic React components and styled them using Tailwind CSS.

**Rasa Configuration**

1. **Initialized Rasa Project:**
   * Set up a new Rasa project using rasa init.
   * Configured config.yml for NLU pipeline and policies.
   * Configured domain.yml to define intents, entities, slots, responses, and actions.
   * Created nlu.yml with training examples for intents.
   * Defined conversation stories in stories.yml.
   * Created custom action in actions.py and updated endpoints.yml for action server.
2. **Running Rasa:**
   * Trained the Rasa model using rasa train.
   * Ran the Rasa server and action server.
   * Tested the assistant in the shell using rasa shell.

**Summary:**

* Successfully set up the development environment with necessary tools and libraries.
* Gained a basic understanding of core technologies through initial research.
* Configured and tested a basic Rasa assistant for handling simple interactions.