CodeCraftHub: Prework - Crafting the Server-Side Architecture

Skills Network

Estimated time needed: 1 hour

Welcome to the Final Project - CodeCraftHub! As a key member of the development team, you're tasked with architecting the server-side components for creating a personalized learning platform. Your role involves harnessing the capabilities of Generative AI along with a diverse set of technologies to bring your vision of CodeCraftHub to life.

Imagine the excitement of building a learning platform that caters to the unique needs of developers, providing them with a tailored and enriching learning experience. You have the opportunity to shape the foundation of CodeCraftHub using cutting-edge tools like Node.js and MongoDB. This project is not just about coding, it's about crafting a space where developers can thrive and grow.

Get ready to embark on this journey, turning your innovative ideas into a reality that will impact the learning experiences of countless developers.

Setting up the GitHub Repository:

1. Create an Github repository for your project named "CodeCraftHub". Please refer to the provided link for guidance on setting up a GitHub account and creating the repository for your project. **Click Here!!** You will use this to set it as origin.

2. Open a terminal, click on "Terminal", and then select the "New Terminal" option.

3. Create a new directory for your project:

   `mkdir user-management-service`

4. Navigate into the newly created directory:

   `cd user-management-service`

   Note: `user-management-service` will be the name of the project directory that will be used in the up coming lab.

5. Initialize a new Git repository:

   `git init`

6. Copy the repository URL provided by GitHub.

7. Link your local repository to the GitHub repository:

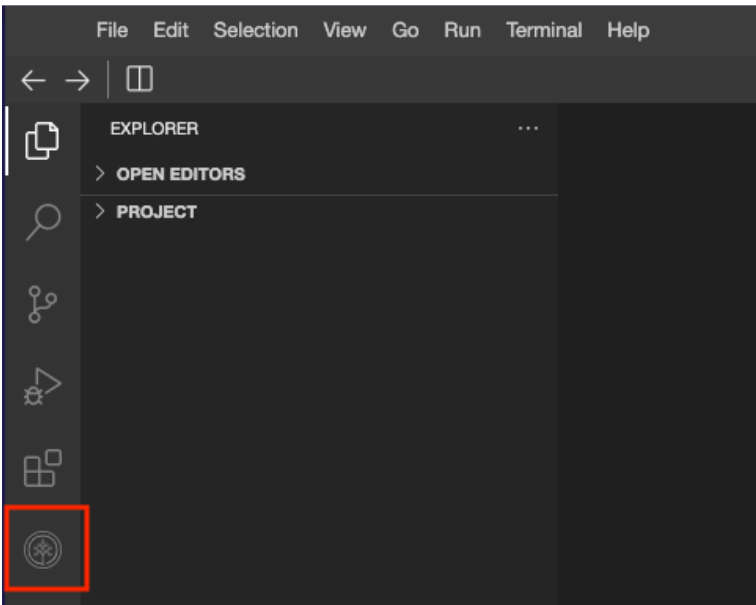   `git remote add origin <repository-url>`

Replace `<repository-url>` with the URL of your GitHub repository.

Now, your project directory is set up, and it's linked to a GitHub repository. You can proceed with the next steps in your project development.
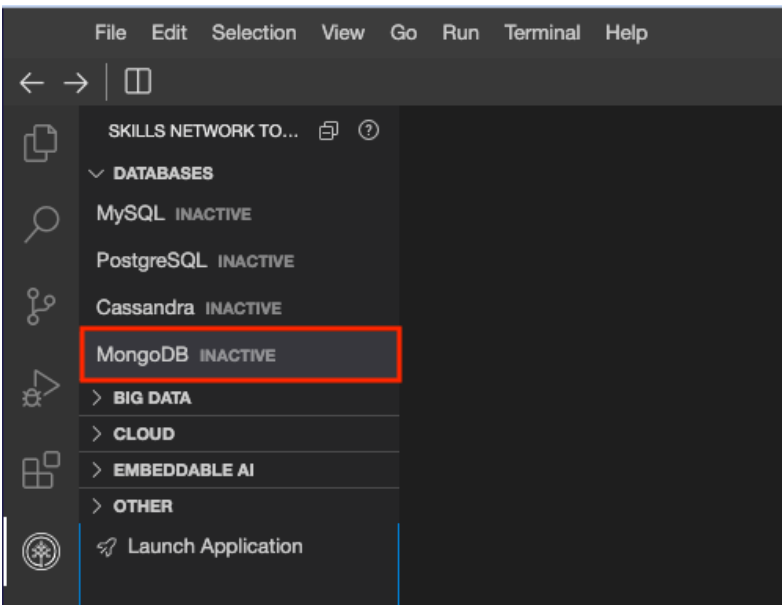
Setting Up MongoDB Server:

In this project, we are using MongoDB as the server-side database for developing the learning platform because of its versatility, scalability, and effective management of varied and dynamic data.
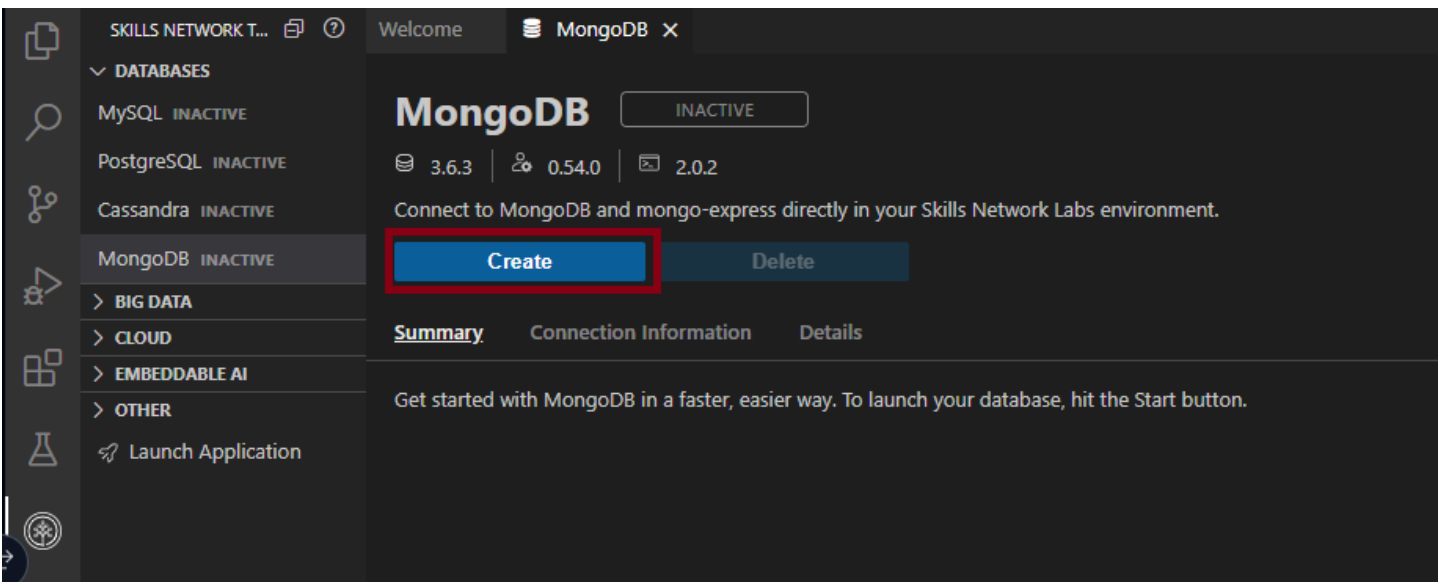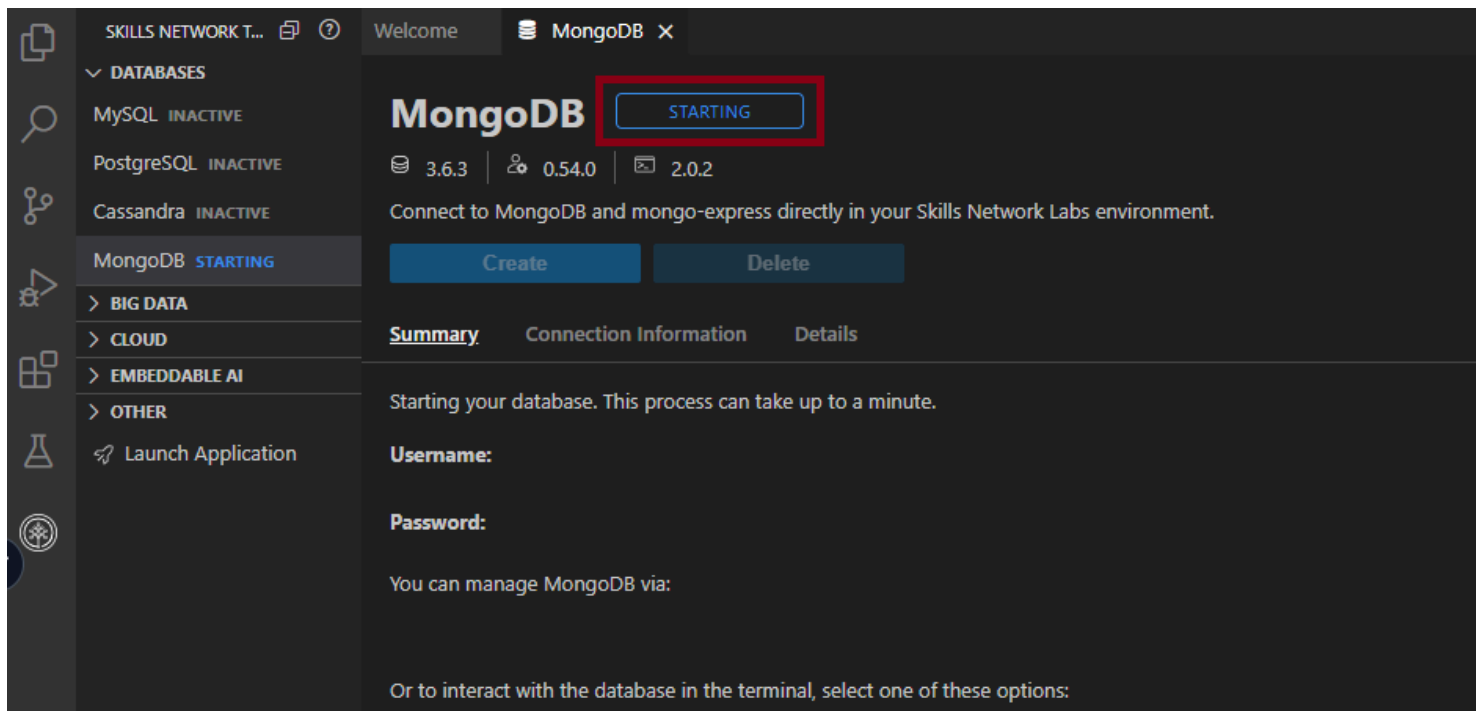
Navigate to Skills Network Toolbox.

You will notice MongoDB listed there, but inactive, which means the database is not available to use.

Once you click on the database, you will see more details and a button to create the database.

Clicking Create button runs a background process to configure and start your MongoDB server.

Soon, your server is ready for use. This deployment has access control enabled and MongoDB enforces authentication. So, take note of the password. You will need this password to login as `root` user.

Note: For Password and other information click on `Connection Information`. Subsequently, replace this copied password in the Database.js file as directed in the preceding step. Finally, click on MongoDB CLI to open the server in the new terminal.

Note: Please ensure to keep this lab session active until you've finished the final project. In the subsequent lab, you'll leverage Generative AI to gather the requirements and obtain the necessary code for developing your learning platform.

Author(s)

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