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CSCI 4830 Introduction to Software Engineering

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Tech Exercise Preparation:

For my Tech Exercise, my project idea is a simple web application designed to track and store workout routines. The goal of this application will be to provide a way for users to compile their workouts, specifying details such as the workout's name and the exercises included. Each exercise will be recorded in a database with information regarding its name, category, rest intervals and optional parameters such as weight, repetitions, duration, which will depend on the specific exercise. In addition to storing their workouts in the database, the user will be able to download them as a CSV file.

For my technology stack, I decided to use one that is compatible with Java and the technologies we are currently learning about in class. I plan to utilize Angular for the frontend development paired with Java Spring Boot for the backend. To manage data, I will rely on MySQL paired with Hibernate ORM.

GitHub will be my repository host, and I will also create a GitHub project to manage deadlines and keep track of milestones.

On the deployment side, I will be using an AWS EC2 server with an Ubuntu operating system and Tomcat.

To prepare for this project, I will be consulting several resources. Here are three key tutorials that I intend to follow to brush up on the main technologies:

- https://www.bezkoder.com/spring-boot-angular-17-mysql/

- https://attacomsian.com/blog/export-download-data-csv-file-spring-boot

- https://spring.io/guides/gs/spring-boot