Software Design and Engineering

Lab Document

High Level Purpose Statement:	I want to make a To Do list app using Gradle, Spring Boot, Node.js, React, PostgreSQL ,and Docker to explore how Docker can containerize everything and make it simple for my peers to run my project.
Experimental Design:	I have already used all of these technologies in this class, so I will mostly have to reference past lab projects, and the internet to troubleshoot any issues with how these services will interact with one another.
Resources Available:	Docker - https://docs.docker.com Gradle - https://docs.gradle.org/current/userguide/userguide.html Java - https://dev.java/learn/ PostgreSQL - https://www.postgresql.org Spring Boot - https://spring.io/projects/spring-boot
Time Estimate:	I estimate spending around 6-8 hours for this project. I expect that my main issues will be getting react and springboot to communicate with the database without any issues.
Experiment Notes:	I love how simple Docker makes it for me to package everything into a container so that someone else can download my project and run it with minimal effort.
Results:	I was able to create a basic app with CRUD operations that I will use as the foundation of my final project.
Consequences for the Future:	I am getting better and solving issues that arise with trying to integrate multiple technologies into one app.