Software Design and Engineering

Lab Document

High Level Purpose	I am wanting to explore a web framework that was recommended
Statement:	to me, FastAPI.
Experimental Design:	This lab will be divided up into the following components:
	Backend configuration (with FastAPI)
	 Frontend configuration (with HTML, CSS, JavaScript)
	Containerization (with Docker)
Resources Available:	https://www.youtube.com/watch?v=iWS9ogMPOI0
	https://fastapi.tiangolo.com/
Time Estimate:	I am estimating this project to take between 3-6 hours.
Experiment Notes:	Backend Configuration
	Wow, this was insanely easy! I think that this is easier to configure
	than Spring Boot, though using the individual modules was strange.
	Frontend Configuration
	This is nothing very new. Thankfully, setting up the backend to
	serve the frontend was very easy and required minimal code.
	Darker
	Docker
	Containerizing the backend was so easy! I usually have some
	trouble with Docker, but this time, I didn't use it for containerizing a database, which is a bit more complicated.
Results:	The final product is a simple typing speed tester whose backend is
Results.	managed by FastAPI, frontend by HTML, CSS, and JS, and
	containerized by Docker.
Consequences for the	There are a lot of potential additions to make to this project, like
Future:	adding a database to store high scores or calculate average scores.
ruture.	FastAPI is very easy to configure and I'm sure that adding
	components like a database would not be difficult.
	as in particular and a database frouter from the armount.
	I could see myself using FastAPI again in the future, if I were to
	work with full-stack apps that utilize Python.