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DOJO HUB SOFTWARE (WEB APPLICATIONS) STARTER COURSE

Introduction

The Dojo Hub web applications starter course is a learning guide for anyone who would like to get well acquainted with the basics of web applications development.

Completing this course qualifies one for the Dojo Hub software basic level certificate.

Course details

	Competence	Description	Validation	Requirements
1	Beginner frond-end development	- Use of HTML, CSS & CSS frameworks to build a static web page	- A web page with a form that captures Name, Phone Number, Email & Gender. - Display a table of 5 students with Name, Gender, CGPA, photo. The table should have a heading. The table should have a footer displaying the number of rows in the table - The form and table should be on equal sized cards side by side on the page	- HTML - CSS - Bootstrap/Tailwind
2	Front-end frameworks	- Use of JavaScript and front-end frameworks	- A ToDo app that takes in user todos - A todo should be able to be marked as complete - The app should be able to remember user todos and their status even after refreshing the page or restarting the browser	- JavaScript fundamentals - React JS/Vue JS/ Angular JS

			- The todos should be in descending order i.e. newest first. - The list of todos should be displayed with a progress bar indicating completion status	
3	API development & database mgt	- Build onto the previous application to incorporate backend functionality - Building endpoints to interface with a front-end and database - User registration and authentication	- Users can create & log into accounts - Users can CRUD their todos - The todos should be stored in a database - Each Todo consists of name, deadline and percentage of completion - Todos turn red when their deadline has passed and they are not complete	- MySQL/PostgreSQL - Express/Codeigniter/ Laravel/Django
4	External dependencies	- Use of external APIs -	- User account verification via email - The todo app should be able to send warning emails 24 hours before the deadline of all todos that is incomplete	- Sendgrid
5	Automated testing	- Automated testing of back-end functionality	- Automated tests for all endpoints	- PHP unit/chai
6	Development operations	- Setting up users in Linux - Connecting to remote machines via SSH - Setting up git - Deploying code from git repositories	- An active virtual machine from any service provider of choice - An active deployment of all the above validations - Ability to SSH into the server	- A remote git repository - A remote virtual machine

Instructions

A screen recording exhibiting all the requirements of each competence is required to pass a competence. Learners can seek clarification and support from the instructor where necessary.

Instructor

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