

[CPE 408] - [Emerging Technologies in CpE]

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Course/Section	CPE 408 - CPE43S1	Activity	Frontend and Backend
Instructions	<ol style="list-style-type: none">1. What is Frontend in Web Development?2. What is Backend in Web Development3. What is Full-Stack Web Development?4. Name some frameworks used for Frontend Web Development5. Name some frameworks used for Backend Web Development		
Answers	<ol style="list-style-type: none">1. The frontend is the client-side of a website that users can see and interact with directly, including design, layout, and interactive elements.2. The behind-the-scenes part that handles data, servers, and application logic. It connects the frontend to the database and powers the website's functions.3. A combination of both frontend and backend development, where a developer can build and manage the entire web application from user interface to server and database.4. React – A component-based JavaScript library for building efficient, dynamic user interfaces using reusable components. Tailwind CSS – A utility-first CSS framework that allows fast, customizable styling through a wide range of utility classes. Bootstrap – A comprehensive CSS framework with ready-to-use components and responsive grid for quickly designing clean interfaces.5. Express.js – A fast, minimal Node.js framework for building web applications and APIs. Django – A high-level Python framework that encourages rapid development and clean design. Ruby on Rails – A server-side framework written in Ruby, known for its simplicity and speed.		

References

1. Codecademy. (n.d.). What is Front-End Development? Retrieved from <https://www.codecademy.com/resources/blog/what-is-front-end-development/>
2. IBM. (n.d.). What is backend development? Retrieved from <https://www.ibm.com/topics/backend-development>
3. What is Full Stack Development? Retrieved from <https://www.geeksforgeeks.org/what-is-full-stack-development/>
4. Top 10 Front-End Frameworks in 2025
<https://www.geeksforgeeks.org/blogs/top-front-end-frameworks/>
5. Top 10 Backend Frameworks for Web Development in 2022. Retrieved from <https://www.geeksforgeeks.org/top-10-backend-frameworks-for-web-development-in-2022/>