



DALHOUSIE UNIVERSITY

Tutorial 1

CSCI 5709: Advanced Topics in Web Development

Group 1

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Introduction of project

We are developing a website to sell used goods and items with options to deliver from buyer to seller.

Technologies we decided are

1. AngularJs(Frontend)
 - a. AngularJS has been around longer than ReactJS or VueJS, offering a larger community and more resources for troubleshooting and finding pre-built components. This can be beneficial for our project[1].
 - b. The documentation of Angular is detailed and very well explains the functionality and working of Angular. Moreover, each concept is explained with an example and easy language that is even useful for beginners[2].
 - c. AngularJS uses a two-way data binding system, which can simplify managing data flow in your application which is missing in ReactJs and VueJs.
2. Django (Backend)
 - a. Django comes with a lot of built-in features out of the box, including user authentication, an admin panel, and an ORM (Object-Relational Mapper) for database interaction. This can significantly speed up development for our website functionalities[3].
 - b. Python is known for its readability and beginner-friendliness, which is advantageous.
3. MySql (Database)
 - a. E-commerce applications heavily rely on structured data like product information, user details, and orders. MySQL excels at handling this type of data efficiently.
 - b. MySQL is a well-established database with a vast community and extensive support resources[4].

In conclusion, the combination of AngularJS, Django, and MySQL provides a solid foundation for building your e-commerce website with delivery options. AngularJS offers a mature framework with a large community, Django streamlines development with built-in features, and MySQL efficiently handles your structured data. While there are compelling alternative frameworks and databases, this technology stack prioritizes ease of development, maintainability, and suitability for your core data needs. As you move forward with development, keep scalability and security in mind to ensure your platform can accommodate future growth.

References

- [1] Devathon, "Blazor vs React Angular & Vue," *Medium*, Dec. 07, 2020. https://medium.com/@devathon_/blazor-vs-react-angular-vue-390c373869b9 (accessed May 22, 2024).
- [2] M. Joshi, "Angular vs React vs Vue: Core Differences," *BrowserStack*, Dec. 23, 2022. <https://www.browserstack.com/guide/angular-vs-react-vs-vue> (accessed May 22, 2024).
Neeraj, "Backend Development Showdown: Node.js Vs Django Vs Spring Boot Vs Golang Vs Ruby on Rails," *Medium*, Dec. 08, 2023.
- [3] https://medium.com/@neeraj_swe/backend-development-showdown-node-js-vs-django-vs-spring-boot-vs-golang-vs-ruby-on-rails-609fcf351f6a (accessed May 22, 2024).
- [4] B. Anderson and B. Nicholson, "SQL vs. NoSQL Databases: What's the Difference?," *IBM Blog*, Jun. 12, 2022. <https://www.ibm.com/blog/sql-vs-nosql/> (accessed May 23, 2024).