

## Week 12: Research

### Prompts

1. What is the difference between TDD and BDD?

[Difference between BDD vs TDD in Software Engineering - GeeksforGeeks](#)

The difference between TDD (Test-Driven Development) and BDD (Behavior-Driven Development) lies in their approach and focus on testing. TDD is a development technique where developers write tests before writing the actual code. The tests are used to drive the development process, ensuring that each unit of code functions correctly in isolation. On the other hand, BDD is a development technique that focuses on testing the behavior of the system from the end user's perspective. BDD involves collaboration between product managers, developers, and test engineers to define the desired behavior of the system using concrete examples. BDD tests are written in a more human-readable format and are often used to document the expected behavior of the system.

5. What is one method that can be used to avoid putting plaintext database usernames and passwords into your code?

<https://developers.refinitiv.com/en/article-catalog/article/how-to-separate-your-credentials--secrets--and-configurations-fr>

One method that can be used to avoid putting plaintext database usernames and passwords into your code is by utilizing environment variables. Storing sensitive information like passwords in environment variables provides an extra layer of security and helps prevent accidental exposure of credentials. By storing database credentials in environment variables, you can separate them from your codebase and keep them outside of version control. This means that even if someone gains access to your code, they won't be able to directly retrieve the sensitive information. By using environment variables, you can keep your database credentials secure and separate from your codebase. This approach also allows for easier configuration management, as you can change the credentials by modifying the environment variables without modifying the code.