**Internship Learning Report**

Introduction

During my internship, I got the chance to dive into real-world software development and learn a lot more than I expected. It was an eye-opening experience that helped me connect what I’ve studied with how things actually work in the industry. Here’s a summary of the main things I picked up during my time as an intern.

What I Learned

1. Object-Oriented Programming (OOPS)

* I strengthened my understanding of the four main pillars of OOPS: encapsulation, inheritance, polymorphism, and abstraction.
* I learned how to design code that’s modular, easy to maintain, and reusable.
* These concepts made my code more organized, which helped me debug and test more efficiently.

2. Java Database Connectivity (JDBC)

* I learned how to connect Java applications to databases using JDBC.
* I worked on CRUD operations (Create, Read, Update, Delete) by writing SQL queries in Java.
* Using prepared statements, I saw how to make database interactions more secure and efficient.

3. JavaServer Pages (JSP)

* I discovered how JSP lets you create dynamic web pages by mixing Java code with HTML.
* I understood the role of JSP in the Model-View-Controller (MVC) pattern, separating business logic from the user interface.
* I built web pages that could display data from the backend and interact with users.

4. Servlets

* I learned how servlets handle HTTP requests and responses in Java web applications.
* I got hands-on experience managing user sessions and application state.
* I combined servlets with JSP to build more robust and interactive web applications.

5. Spring Framework (Basics)

* I got introduced to the basics of the Spring framework and its core features.
* I learned about dependency injection and how it helps keep code loosely coupled and easier to manage.
* I explored modules like Spring Core and Spring MVC, which are used to build scalable Java applications.

Conclusion

Overall, my internship gave me practical exposure to important Java technologies and web development frameworks. The skills I gained in OOPS, JDBC, JSP, Servlets, and Spring have made me more confident as a developer. I’m excited to bring these new abilities to future projects and keep learning as I grow in my career.

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