Report - Library in Spring
Computación en Internet II

By:

- **Juan Pablo Acevedo**
- **Jesus Garces**
- **Santiago Arboleda Velasco**

Introduction: This workshop aims to create a book management system for a bookstore. To accomplish this, the model, repository, and service classes for the books must be developed. The Book class is characterized by having the attributes id, name, publisher and author. In the main application, the service bean will be instantiated, three books will be created directly in code, data from one of them will be obtained using its ID, and one book will be deleted using its ID. Additionally, this task should be performed in three versions of the project, each using a different form of dependency injection:

a. **Configuration using XML.**
b. **Configuration using annotations in classes.**
c. **Configuration using a configuration file.**

Additionally, in one of the versions of the project, the Publisher class will be incorporated with the attributes id, name, address and a list of books. Three Publisher instances will be created and at least five books will be added to each. The number of books associated with each publisher will be displayed and the books belonging to a specific publisher will be listed.

Accomplishments:

a. Successful setup of three project versions with different dependency injection methods.
b. Incorporation of the Editorial class and relationship with books in one of the versions of the project.
c. Effective use of Independence injection in the book service, which facilitates component management and code modularization.

Left to do:

The entire project is being carried out, so there is nothing left to do.

Difficulties encountered:

a. Make sure that the directory structure and filenames are consistent and correct in all versions of the project.

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b. Ensure that Spring Framework dependencies are configured correctly for dependency injection.
c. Learn how to properly report and log compile-time errors and events within the application

Reflections or conclusions:

This workshop has allowed us to learn how to configure and use the Spring Framework for dependency management in a Java application. Configuring multiple versions of the project has helped us understand the different forms of dependency injection and how to choose the most appropriate one based on the needs of the project. This knowledge will be valuable for developing more complex applications using the Spring Framework in the future.