

**Chapter 1: Getting Started**

You will learn:

- Java platform.
- Applets and applications.
- Java programming language: facilities and foundation.
- Memory management and garbage collection.
- Integrated thread synchronization.
- Java components.
- Java object-oriented programming concept.
- Java Virtual Machine.

**Chapter 2: Eclipse**

You will learn:

- How to work with Eclipse projects.
- Create source folders.
- Create classes.
- Specify the default perspective.
- Configure perspectives.
- Work with views.
- Create JAR files.
- Create refactoring scripts.

**Chapter 3: Language and Syntax**

You will learn:

- Java language statements and syntax.
- Programming rules and conventions.
- How to use operators in mathematical, conditional, and string expressions.
- Use and code of constants.
- Create and use an array.



**Chapter 4: Flow of Control Statements**

You will learn:

- if statement.
- if/else statement.
- if/else/if statement.
- for statement.
- while statement.
- switch statement.

**Chapter 5: Web Project with MyEclipse**

You will learn:

- Working with a web project.
- Creating a JSP programs.
- JSP validation.
- Deploying web projects.
- Adding a server to a deployment.
- Launching an application server.
- Configuring a connector.

**Chapter 6: JavaServer Pages**

You will learn:

- Coding and testing JavaServer Pages.
- Creating simple applications.
- HTML forms.
- GET and POST methods.
- Working with beans.
- Checking the request object.
- Adding error pages.

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**Chapter 7: Visual HTML / JSP Designer**

You will learn:

- Designers' features.
- Properties and outline views.
- Synchronizing between editor modes and views.
- WYSIWYG design editing.
- Designer UI palette.
- Built-in Edit commands.
- Images.

**Chapter 8: Java Applications in Elipse**

You will learn:

- Java perspectives and views.
- How to create and use templates.
- Implement refactoring support.
- Create and deploy a Java package.
- Create Javadoc documentation.
- How to generate Getters and Setters.
- How to use templates for creating a method.

**Chapter 9: Java Applications Best Practices and Tips**

You will learn:

- Generating random numbers.
- Parsing text.
- Sending e-mails.
- Handling errors a try..catch.
- Implementing naming conventions.
- Validating method arguments.
- Following local declarations rules.

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**Chapter 10: JSF: JavaServer Pages**

You will learn:

- Coding Struts and JSF.
- JSF lifecycle.
- Programming JavaServer Faces.
- Implement deployment descriptor.
- Exploring response tree.
- Use LengthValidator.
- Implementing custom validators.
- NameValidator.

**Chapter 11: JSF in MyEclipse**

You will learn:

- Creating a web project.
- Adding JSF capabilities.
- Message bundles.
- Managed beans.
- Coding JavaScript pages.
- Deploy applications.
- Starting the server.

**Chapter 12: Spring Framework**

You will learn:

- Spring architecture and its benefits.
- BeanFactory.
- How to implement inversion of control.
- Application context.
- Data access exception hierarchy.
- JDBC abstraction.
- MVC Web framework.

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**Chapter 13: Spring and MyEclipse**

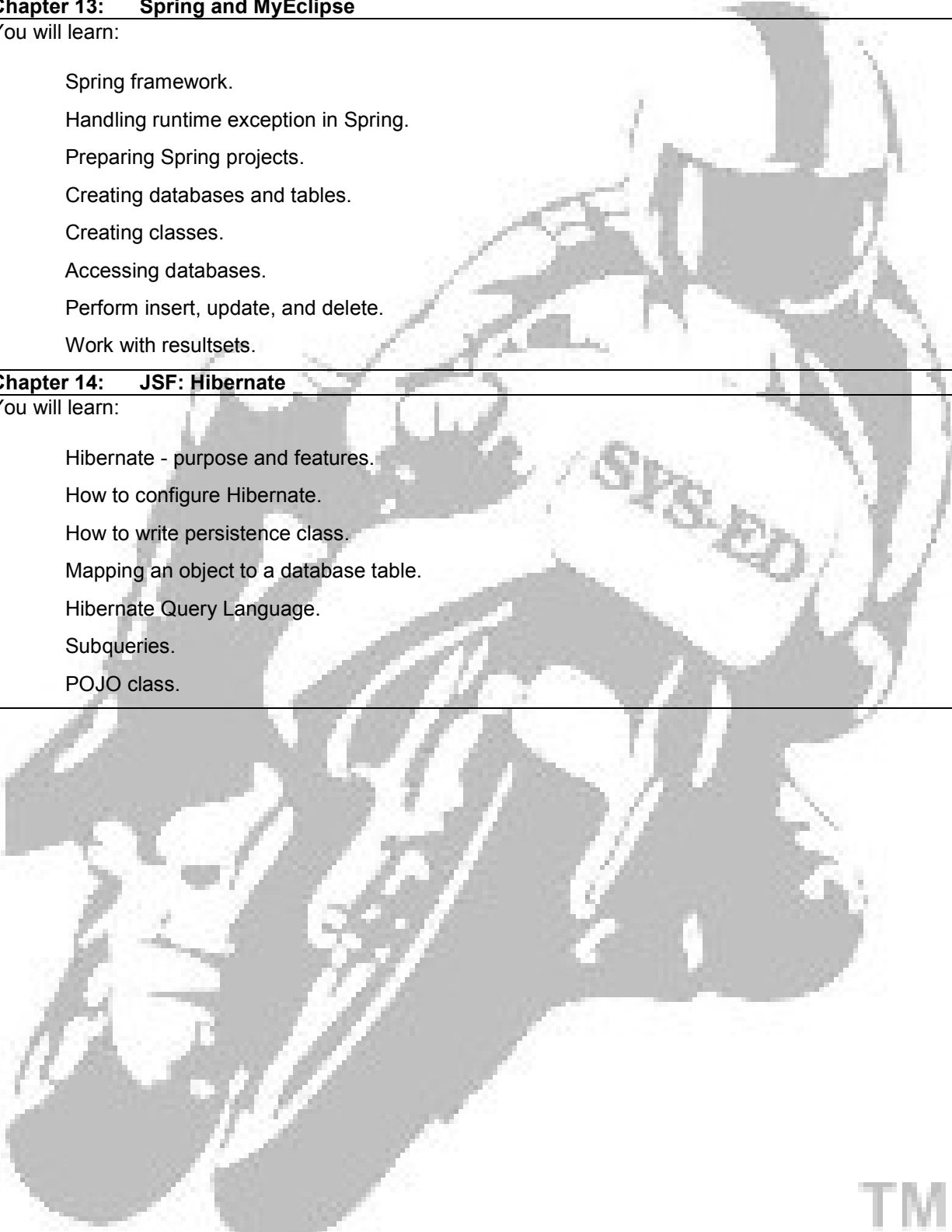
You will learn:

- Spring framework.
- Handling runtime exception in Spring.
- Preparing Spring projects.
- Creating databases and tables.
- Creating classes.
- Accessing databases.
- Perform insert, update, and delete.
- Work with resultsets.

**Chapter 14: JSF: Hibernate**

You will learn:

- Hibernate - purpose and features.
- How to configure Hibernate.
- How to write persistence class.
- Mapping an object to a database table.
- Hibernate Query Language.
- Subqueries.
- POJO class.



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