CST 243-3 Rapid Application Development

Lesson 03: Web Technologies for Rapid Development

Activity 05: Developing Web Applications using Java Servlets

Pre-requirements: You should have a basic understanding of creating a Java Servlet using Netbeans IDE.

Instructions:

- 1. Start by creating a web project called "MyFirstServlet".
- 2. Add a Servlet page named "Register" in an appropriate package.
- 3. Design an HTML page as shown in Figure 01, which will allow users to input information for user registration in a small web application.

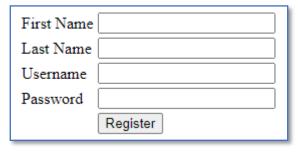


Figure 1: HTML page

- 4. After designing the HTML page, modify both the HTML and the Servlet page to display the user inputs in a specific format.
- 5. Ensure that the password is not displayed as plain text. Implement appropriate techniques to make it unreadable to humans.
- 6. The output generated by your Servlet should resemble Figure 02.

First Name: Test

Last Name: User

Username: test

Password: 202cb962ac59075b964b07152d234b70

Figure 2: Servlet Output

7. Create the necessary database structure as follows.

CREATE TABLE user (
id int(11) NOT NULL AUTO_INCREMENT,

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firstname varchar(50) NOT NULL,
lastname varchar(50) NOT NULL,
username varchar(50) NOT NULL,
password text NOT NULL,
PRIMARY KEY (id)
);
```

- 8. Save the user inputs to the database.
- 9. If the information is successfully saved to the database, display a message saying "Successfully Saved" to the user.
- 10. If any errors occur during this process, inform the user with an "Error Occurred" message.