Project Documentation: Servlet-Based Login System

**Overview**

This web application provides a basic user login system, where users can log in through a login page with hardcoded credentials. Upon successful login, the user is redirected to a dashboard, which includes a link for logging out. Incorrect logins are handled with an error message page.

**Technologies Used:**

* **IDE**: Eclipse
* **Web Server**: Apache Tomcat
* **Front-end**: HTML
* **Back-end**: Servlets

**Setup and Configuration**

**Prerequisites:**

* Java Development Kit (JDK)
* Apache Tomcat
* Eclipse IDE

**Project Structure:**

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project-root │ ├── src/main/java/com │ ├── LoginServlet.java │ ├── WebContent │ ├── index.html (Login Page) │ ├── dashboard.html (Dashboard Page) │ ├── error.html (Error Page) │ └── WEB-INF ├── web.xml (Servlet Configuration)

**Configuration:**

1. **web.xml**: Contains the servlet and servlet-mapping configurations.
2. **LoginServlet**: Handles the login validation and redirect logic.
3. **HTML Pages**: Includes the login page, dashboard, and error message page.

**Usage**

**Login Page:**

* URL: **http://localhost:8080/Demo/**
* Hardcoded Credentials: (Email and Password are set in the LoginServlet class)

**Dashboard:**

* URL: **http://localhost:8080/Demo/dashboard**
* Includes a logout link

**Error Page:**

* URL: **http://localhost:8080/Demo/error**
* Displays when login validation fails

**Troubleshooting**

* Ensure Tomcat is running and configured properly in Eclipse.
* Check the servlet class path and the configuration in **web.xml**.
* Refer to the Tomcat logs for specific error messages.

**Future Enhancements**

* Integration with a database for dynamic user validation.
* Implementation of user registration functionality.
* Adding CSS and JavaScript for improved UI/UX.

**Conclusion**

This simple servlet-based web application provides a foundational prototype for a user login system. It can be further expanded and customized as per project needs. The use of hardcoded credentials offers a quick and efficient way to demonstrate the functionality but should be replaced with a more robust authentication method in a production environment.

For further inquiries or assistance, please refer to the inline code comments or contact the development team.