



FACULTY OF COMPUTER SCIENCE AND MATHEMATICS

CSM3023 (K1)

WEB BASED APPLICATION DEVELOPMENT

LAB 2 : DATA SHARING AND DATABASE MANAGEMENT

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GitHub Link:

<https://github.com/dylajela/LAB2.git>

TASK 1 : Data Sharing in Servlet

Reflection:

1. What have you learnt from this exercise?
 - From this exercise, I have learnt on how to use servlet for request forwarding and data sharing.
2. What are the common methods used in Java Servlet?
 - `public void service(ServletRequest request, ServletResponse response)`
 - `public void destroy()`

TASK 4 : Using Servlets for Database CRUD Operations

Reflections:

1. What is the name of the Java Library that you need to import before coding the web application with database operations?
 - MySQL JDBC Library
2. Which folder keeps the web.xml file? Copy the contents of the file and explain in brief the tags included
 - Java web applications use a deployment descriptor file to determine how URLs map to servlets, which URLs require authentication, and other information. This file is named web.xml, and resides in the app's WAR under the WEB-INF/ directory. web.xml is part of the servlet standard for web applications.
3. Define the usage of Data Access Object (DAO) servlet. How it ease the business process in your servlet-bases web application?

- The Java Pet Store sample application uses the DAO pattern both for database vendor-neutral data access, and to represent XML data sources as objects. Accessing a database with a DAO. A Data Access Object class can provide access to a particular data resource without coupling the resource's API to the business logic.

Outputs:

localhost:8080/CRUDUsingServlet/SaveServlet

Record saved successfully!

Add New User

Username:

Password:

Role:

[View users](#)

localhost:8080/CRUDUsingServlet/EditServlet?id=3

Update User

Name:

Password:

Role:

localhost:8080/CRUDUsingServlet/ViewServlet

[Add New User](#)

User List

	Name	Password	Role	Edit	Delete
1	Ahmad	4567	admin	edit	delete
2	Adilah Aina	abc123	admin	edit	delete