

DEPARTMENT OF INFORMATION & COMMUNICATION TECHNOLOGY  
COURSE WORK ASSESSMENT (Session 1: 2021/2022)

CLO 1P (25)	
TOTAL (25)	
%	

Name : \_\_\_\_\_

Registration No. : \_\_\_\_\_

Code & Course : **DFP 50173 WEB DEVELOPMENT TECHNOLOGY**

Programme : \_\_\_\_\_

Lecturer : \_\_\_\_\_

Week (Date) : **W13 (27/12/2021 - 02/01/2022)**

Lab Exercise(s) No: **1 / 2 / 3 / 4** [CLO: **CLO 1**]

Submission Date : **02/01/2022**

Instruction(s): Answer all questions. You are advised to put your name and registration number on the top of your code.

**QUESTION:**

Hakim as a system developer in the software house company located in Kuala Lumpur is required to develop a Java web-based Vehicle Registration System (VRS) to record occupants' vehicle information for a specific condominium located at Bangsar South. VRS can be used by two types of users, which is occupant and administrator. Each user has a different role and function as below:

a) Administrator

- The administrator can access VRS and view occupant's vehicle registration information application.
- The administrator has a privileged to approve or decline occupant's vehicle registration information application.

b) Occupant

- The occupant can access VRS and request to register their vehicle information by fill up all the required information such as vehicle owner, vehicle type, vehicle brand, vehicle model, vehicle color, vehicle registration number and vehicle chassis number.
- The occupant can view the vehicle information request whether approved or declined.

The system **MUST** include the requirements as follows.

- Implement form based authentication (**j\_security\_check**) to authenticate user [CLO1, P3 | 5 marks ]  
when login the system
- Construct declarative security (**Web.xml and Tomcat User**) to authorize user [CLO1, P4 | 10 marks ]  
and check whether a user has access to given resource
- implement programmatic security method (**String getRemoteUser()** and [CLO1, P3 | 10 marks ]  
**Boolean isUserInRole(String role)**) to authorize user and check whether a user  
has access to given resource

Design your program creatively.

Prepared by:

MUHAMMAD THARIQ BIN ABDUL RAZAK  
Pegawai Pendidikan Pengajian Tinggi (DH41)  
Jabatan Teknologi Maklumat & Komunikasi  
Politeknik Mukah

(MUHAMMAD THARIQ BIN ABDUL RAZAK)

Date: 10/12/2021

Verified by:

ROHALIZA BINTI KARIM  
Ketua Program  
Jabatan Teknologi Maklumat dan Komunikasi  
Politeknik Mukah.

Signature of Head of Programme

(ROHALIZA BINTI KARIM)

Date: 10/12/2021

DEPARTMENT OF INFORMATION & COMMUNICATION TECHNOLOGY  
ANSWER & MARKING SCHEME RULES (Session 1: 2021/2022)

CODE/COURSE NAME: DFP 50173 WEB DEVELOPMENT TECHNOLOGY

LAB EXERCISE(s) No : 1/2/3/4

CLO	CRITERIA	Excellent [5]	Good [4]	Modest [3]	Weak [2]	Very Weak [1]	No Submission [0]	SCORE
CLO1   P3	Able to implement form-based authentication (j_security_check) to construct a dynamic web application.	Very clear evidence of knowledge and understanding to implement form-based authentication (j_security_check) to construct a dynamic web application.	Able to implement form-based authentication (j_security_check) to construct a dynamic web application.	Able to implement form-based authentication (j_security_check) to construct a dynamic web application with required minor improvements.	Able to implement form-based authentication (j_security_check) to construct a dynamic web application with required major improvements.	Not able to implement form-based authentication (j_security_check) to construct a dynamic web application.	Fail to submit laboratory exercise 4	
	Able to implement programmatic security method (String getRemoteUser()) to construct a dynamic web application.	Very clear evidence of knowledge and understanding to implement programmatic security method (String getRemoteUser()) to construct a dynamic web application.	Able to implement programmatic security method (String getRemoteUser()) to construct a dynamic web application.	Able to implement programmatic security method (String getRemoteUser()) to construct a dynamic web application with required minor improvements.	Able to implement programmatic security method (String getRemoteUser()) to construct a dynamic web application with required major improvements.	Not able to implement programmatic security method (String getRemoteUser()) to construct a dynamic web application.	Fail to submit laboratory exercise 4	
	Able to implement programmatic security method (Boolean isUserInRole (String role)) to construct a dynamic web application.	Very clear evidence of knowledge and understanding to implement programmatic security method (Boolean isUserInRole (String role)) to construct a dynamic web application.	Able to implement programmatic security method (Boolean isUserInRole (String role)) to construct a dynamic web application.	Able to implement programmatic security method (Boolean isUserInRole (String role)) to construct a dynamic web application with required minor improvements.	Able to implement programmatic security method (Boolean isUserInRole (String role)) to construct a dynamic web application with required major improvements.	Not able to implement programmatic security method (Boolean isUserInRole (String role)) to construct a dynamic web application.	Fail to submit laboratory exercise 4	
CLO1   P4	Able to use declarative security (Web.xml) to construct a dynamic web application.	Very clear evidence of knowledge and understanding to implement declarative security (Web.xml) to construct a dynamic web application.	Able to implement declarative security (Web.xml) to construct a dynamic web application.	Able to implement declarative security (Web.xml) to construct a dynamic web application with required minor improvements.	Able to implement declarative security (Web.xml) to construct a dynamic web application with required major improvements.	Not able to implement declarative security (Web.xml) to construct a dynamic web application.	Fail to submit laboratory exercise 4	

CLO	CRITERIA	Excellent [5]	Good [4]	Modest [3]	Weak [2]	Very Weak [1]	No Submission [0]	SCORE
	Able to use declarative security (Tomcat User) to construct a dynamic web application.	Very clear evidence of knowledge and understanding to use suitable declarative security (Tomcat User) to construct a dynamic web application.	Able to use suitable declarative security (Tomcat User) to construct a dynamic web application.	Able to use suitable declarative security (Tomcat User) to construct a dynamic web application with required minor improvements.	Able to use suitable declarative security (Tomcat User) to construct a dynamic web application with required major improvements.	Not able to use suitable declarative security (Tomcat User) to construct a dynamic web application.	Fail to submit laboratory exercise 4	

Prepared by:



(MUHAMMAD THARIQ BIN ABDUL RAZAK)

Date : 10/12/2021

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Signature of Head of Programme  
(ROHALIZA BINTI KARIM)

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