CLO02P	(30)	
TOTAL	(30)	
(%)		

DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY
COURSEWORK ASSESSMENT (Session 1: 2021/2022)

Name	:	Registration No.	:
Code & Course	: DFP50043 Integrative Programming & Technologies	Programme	: DDT
Lecturer	:	Week (Date)	: W11 (13.12.21 – 17.12.21)
Case Study (s) No.	: 1 / 2 [CLO: CLO02]	Submission Date	: 2 hours

Instruction (s):
1. Answer all the question(s).
2. Write your details on the top of the code.
3. Prepare a PDF report based on the report template given in *appendix 1*.
4. Compress report and project files together and submit it to submission platform in CIDOS.
5. Refer the marking rubric to complete your task.

Case Study (s)

Department of Information & Communication Technology of Politeknik Mukah is currently tracking the vaccination status of the students. Currently the records of the student vaccination are kept using a conventional method which is either using a digital record like a Google Sheet or paper-based filing method.

There are several issues arise from the usage of the conventional method such as the data privacy as and data standardization. Data privacy here refer to the private data of the student which is exposed without any protection either from the department side or students' side meanwhile the data standardization refers to the format of the data input by the department or by the students like the format of the identity card no, either have a dash (-) or not and the unstandardized capitalization of the word entered by the user.

As one of the IT students of the department, you are asked to build a Java application to cater these issues. You will need to refer to the question below to complete your Java application on-time.

Question (s)
1. Create Graphical User Interface (GUI) of a *login module* used to authenticate the user by referring to the data requirement in Table 1 and the *vaccination module* by referring to the data requirement in Table 2. **[CLO2, P4]**
2. Arrange both Graphical User Interface (GUI) created using suitable layout manager. **[CLO2, P4]**
3. Implement user authentication in login module so that only registered user can access the form. **[CLO2, P4]**
4. Implement event handling in vaccination module to pass all the data entered to the confirmation dialog. **[CLO2, P4]**

5. Implement event handling in vaccination module to transform all data entered to capital letter. **[CLO2, P4]**

Table 1

Login Module		
No.	**Data**	**Sample Data**
1	Username	Admin95
2	Password	admin12345 in asterisk form (*****)
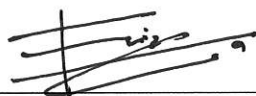
Table 2

Vaccination Module		
No.	**Data**	**Sample Data**
1	Student name	Eileen Medina
2	Student NRIC No	970313131674 (No dash)
3	Dose 1 Vaccine Date	12/12/2021
4	Dose 1 Vaccine Brand	Pfizer/AstraZeneca/Sinovac (Pre-defined)
5	Dose 1 Vaccine Batch No	C202105076
6	Dose 2 Vaccine Date	12/12/2021
7	Dose 2 Vaccine Brand	Pfizer/AstraZeneca/Sinovac (Pre-defined)
8	Dose 2 Vaccine Batch No	C202105076
9	Booster Dose	Yes/No (Pre-defined)

Tip (s)

The login module will check the user data based on the pre-coded data in the program. If the user authenticated, the vaccination module will be displayed. The confirmation dialog will be appear displaying the data entered by the user in capital letter once the vaccination module is submitted.

Prepared by:

Course Coordinator MOHD. FAIZ BIN TONY
Mohd. Faiz bin Tony Pegawai Pendidikan Pengajian Tinggi DH41
Jabatan Teknologi Maklumat dan Komunikasi
Politeknik Mukah
Date: 10/12/2021

Verified by:

ROHALIZA BINTI KARIM
Ketua Program
Jabatan Teknologi Mak.
Politeknik Mukah.

Head of Programme
Rohaliza binti Karim
Date: 10/12/2021

CASE STUSY 2 REPORT

Program Output (s):

<<insert your program output image here>>

Program Code (s):

<<FileName1.java>>
<<paste your code here>>

<<FileName2.java>>
<<copy and paste the table if you have multiple files>>

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POLITEKNIK MALAYSIA MUKAH

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

CODE / COURSE NAME: DFP50043 INTEGRATIVE PROGRAMMING & TECHNOLOGIES

CASE STUDY (S): 1, 2

CLO	Criteria	No Submission / Error 0	Very Poor 1	Poor 2	Fair 3	Good 4	Excellent 5	Weightage Score
	Component identification & development	Student did not submit any assessment	Unable to identify the appropriate component and develop the identified component	Able to partially identify the appropriate component and develop the components incorrectly	Able to identify all the appropriate component but unable to develop it correctly	Able to identify all the appropriate components and able to develop the components correctly but not following the best practice method	Able to identify all the appropriate components and able to develop the components correctly following the best practice method	1
CLO02P	Layout manager implementation	There is no implementation of any layout manager	There is layout manager implemented either 1,2 or 3 but the program unable to display any functional layout manager or the program throw an error	Students implement 1 functional layout manager, and the implementation clearly show the usage of the layout manager	Students implement 2 functional layout managers, and the implementation clearly show the usage of the layout manager	Students implement 3 or more functional layout manager, and the implementation clearly show the usage of the layout manager	Students implement 3 or more functional layout manager, and the implementation clearly show the usage of the layout manager & clearly readable.	1
	Event-handling implementation (Authentication)	There is no implementation of authentication module	Wrong implementation of the authentication module	The program able to authenticate user but unable to open the vaccination module once authenticated	The program able to authenticate user then open vaccination module but unable to close the login module properly	The program able to authenticate user then open vaccination module and close the login module properly without any error but the implementation is not structured	The program able to authenticate user then open vaccination module and close the login module properly without any error and the implementation is very structured	1

Criteria	The program can't be executed	The program unable to manipulate any of the data entered by the user but there is implementation made (Based on code)	The program able to manipulate the text by partially passing the data with slight error/wrong data format	The program able to manipulate the text by partially passing the data without any error	The program able to manipulate the text by passing all the data without any error but the implementation is not structured	The program able to pass all the data without any error and the implementation is very structured	
Event-handling implementation (Data manipulation – Data passing)	The program can't be executed	The program unable to manipulate any of the data entered by the user but there is implementation made (Based on code)	The program able to manipulate the text by partially passing the data with slight error/wrong data format	The program able to manipulate the text by partially passing the data without any error	The program able to manipulate the text by passing all the data without any error but the implementation is not structured	The program able to pass all the data without any error and the implementation is very structured	1
Event-handling implementation (Data manipulation – Data transformation)	The program can't be executed	The program unable to transform any of the data entered by the user but there is implementation made (Based on code)	The program able to partially transform the data with slight error/wrong data format	The program able to partially transform the data without any error without any error	The program able to transform all data without any error but the implementation is not structured	The program able to transform all data without any error and the implementation is very structured	2

Prepared by:

Course Coordinator
Mohd. Faiz bin Tony
Date: 10.12.2021

MOHD. FAIZ BIN TONY
Pegawai Pendidikan Pengajian Tinggi DH41
Jabatan Teknologi Maklumat dan Komunikasi
Politeknik Mukah

Verified by:

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

Head of Programme
Rohaliza binti Karim
Date: 10.12.2021