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|---|-------------|---|---------------|
|  | NAME        |   |               |
|   | CLASS       |   | CLO1(P): /100 |
|   | SESSION     | SESI I 2023/2024                                    |               |
|   | COURSE CODE | DFP50273 – INTEGRATIVE PROGRAMMING AND TECHNOLOGIES |               |
|   | ASSESSMENT  | CASE STUDY  |               |
|   | LECTURER    |   |               |

**CLO1** : Construct the elements of GUI from java package that integrates database for an interactive GUI application. (P4, PLO3)

**TOPIC** : 1.2 Build frame windows and menu bars in Java programs.  
 2.2 Organizes Layout Manager  
 3.2 Perform the concepts of event delegation model.  
 4.2 Construct SQL query statements using JDBC.

**DURATION** : 4 hours

### INSTRUCTIONS:

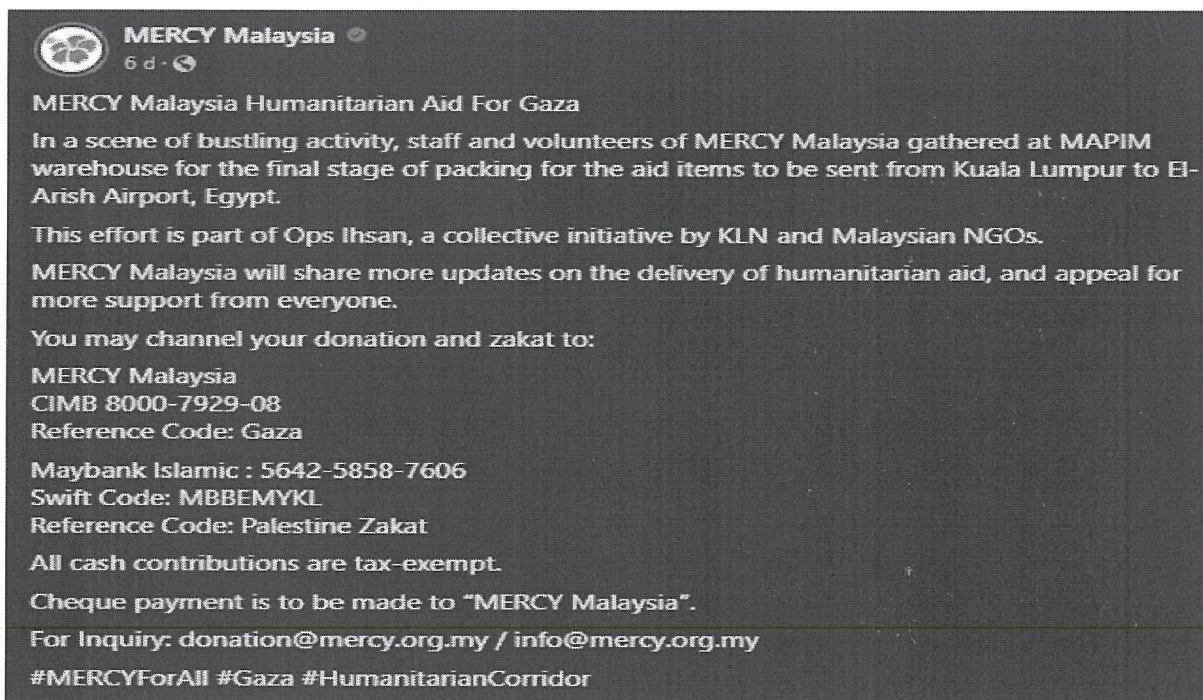



Figure 1

On October 7, 2023, hostilities erupted between Hamas and Israelis, leading to a widespread air raid in the Gaza Strip. The latest statistics show over 600,000 people have been displaced, with reportedly over 16,000 Palestinians injured thus far. Currently, more than 8,000 Palestinians have been killed in Gaza, with nearly half of the casualties being children. Israel has reportedly dropped 6,000 bombs on the Gaza Strip since Hamas's attack on, damaging over 160,000 residential areas and 15,000 houses. The escalating hostilities and increasing death toll underscore the urgent need for all parties to cease conflict, protect civilians, and promote freedom and equality. We urge global solidarity with Palestine, transcending borders for an inclusive future, and call on donation to contribute to the region's redevelopment.


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As a junior JAVA programmer, you have been assigned to develop a system by MERCY Malaysia that able to record the Malaysia citizen donation. The basic requirements for the system are as follows: (CLO1: P4)

- Create a suitable database and a table.
- Design a GUI that **citizen** able to give the donation and able to view the record of donation.
- Use suitable exception handling and suitable message dialog for information to the user.

  
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 Ketua Program (PPPT DH44)  
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 Jabatan Teknologi Maklumat & Komunikasi  
 Politeknik Mersing



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| Performance Area   | ADVANCED<br>4   | INTERMEDIATE<br>3  | BEGINNER<br>2  | WEAK<br>1   | Weightage    | Score                        |
|--|---|--|--|---|--------------|------------------------------|
| Elements of Swing components   | Able to design ALL components in the page related to the question.  | Able to design most components in the page related to the question.  | Able to design some components in the page related to the question.  | Able to design component BUT limited use of component according to the question.  | 15           | ( $\frac{\quad}{4}$ ) x 15 = |
| Event Handling   | Able to declare ALL of event handling AND definitions of event handling are perfect and contains all the task correctly based on component use. | Able to declare most of event handling AND definitions of event handling contains some tasks correctly based on component use. | Able to declare some of event handling AND some definitions of event handling are partially complete based on component use. | Able to declare limited event handling BUT not able to define event handling based on component use.                        | 20           | ( $\frac{\quad}{4}$ ) x 20 = |
| Create a database  | Able to create a database with correct and complete tables and relationship.  | Able to create a database but not enough table or no relationship found in each table.   | Able to create a database but no tables in database.   | No database creates   | 10           | ( $\frac{\quad}{4}$ ) x 10 = |
| Database Connection & SQL Statement  | Able to create functional connection. ALL SQL statement is correct and function.  | Able to create functional connection AND most SQL statement is correct and function.   | Able to create functional connection BUT SQL statement is not function.  | connection is not working AND SQL statement is not function.  | 20           | ( $\frac{\quad}{4}$ ) x 20 = |
| Program Code   | The student creates programs which show a thorough understanding of the programming concepts and theory.<br>High understanding.                 | The student creates programs which show considerable understanding of programming concepts and theory.<br>Medium Understanding | The student creates programs which show some understanding of programming concepts and theory.<br>Low Understanding          | The student creates programs which show limited understanding of Programming concepts and theory.<br>Very Low Understanding | 10           | ( $\frac{\quad}{4}$ ) x 10 = |
| Program Compilation and Execution  | Able to compile and execute the program with expected output.   | Able to compile and execute the programs with unexpected output.   | Able to compile the program with minor errors.   | Program is not working.   | 10           | ( $\frac{\quad}{4}$ ) x 10 = |
| Output Creativity  | Excellent ideas, creative and inventive.  | Good ideas, creative and inventive.  | Moderate ideas, creative and inventive.  | Fairly creative ideas and inventive   | 10           | ( $\frac{\quad}{4}$ ) x 10 = |
| Time   | Report is submitted ahead or on time  | Reports is one to two days late  | Reports is three to four days late   | Reports is more than four days late   | 5            | ( $\frac{\quad}{4}$ ) x 5 =  |
| <div style="text-align: right;"> <br/> <b>ZURAIDAH BINTI MOHD RAMLY</b><br/> <small>Ketua Program (PPT) DH44</small> </div> |   |  |  |   | <b>TOTAL</b> | 100                          |

\* Zero (0) mark will be given if students do not answer / perform the criteria needed.