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UNIVERSITI
TEKNOLOGI
MARA

CSC584

SOFTWARE ENGINEERING

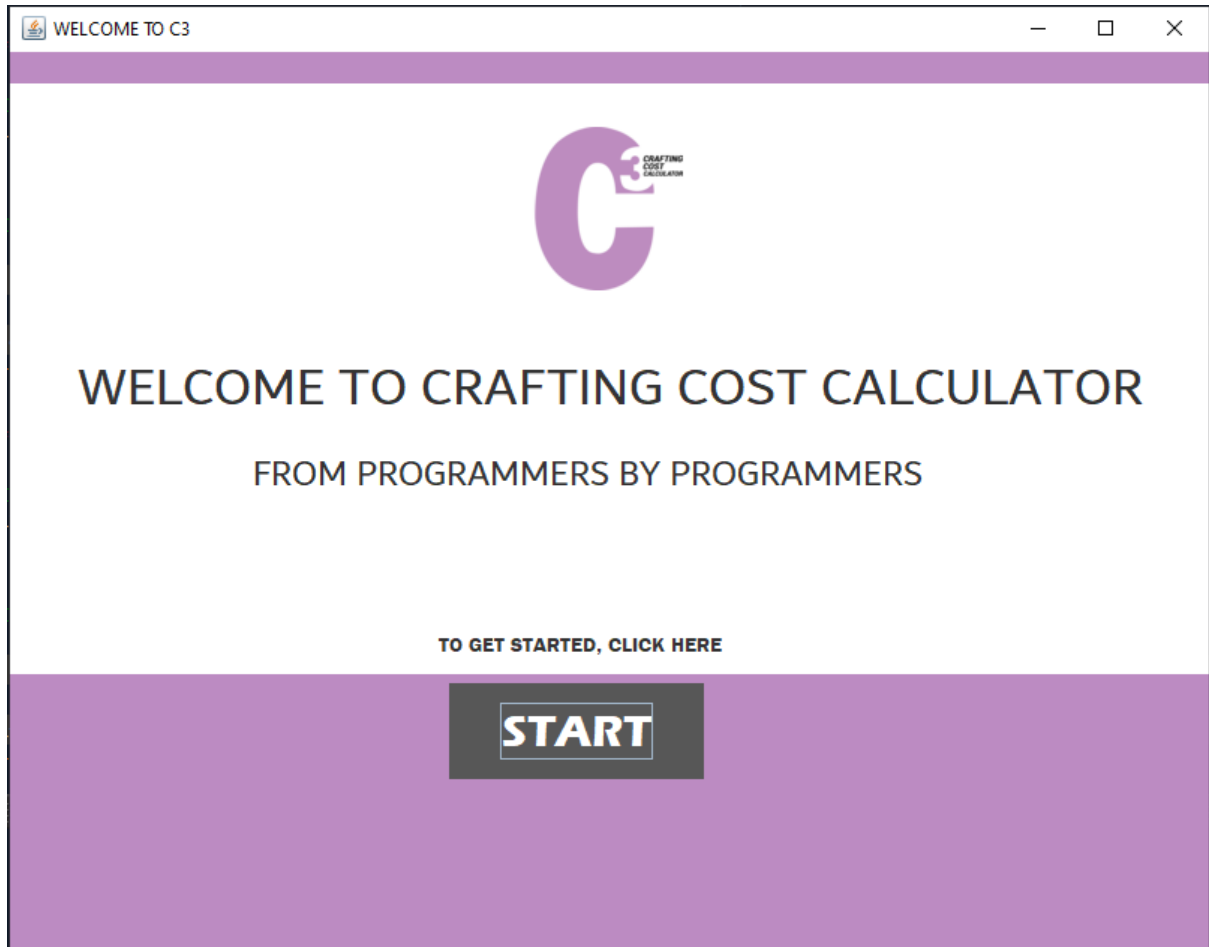
USER MANUAL

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Crafting Cost Calculator User Manual

1. The welcome page



- The user will be greeted by the home page and instruction to click for "START".
- When user ready to get started, they can click the "START" button to proceed to the next page.

2. The menu for entering 5 required inputs for unadjusted function point.

The screenshot shows a software window titled "ENTER UNADJUSTED FUNCTION POINT". Inside, there is a section titled "CRAFTING COST CALCULATOR" with a house icon. Below the title, a text prompt asks the user to fill a table with estimates for the software they are developing. The table has five rows of input categories and three columns of complexity levels: Simple, Average, and Complex. Each cell in the table is an empty text box. At the bottom of the table, there are two buttons: "Reset" and "Next".

	Simple	Average	Complex
Number of user input.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of user output.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of user inquiries.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of files.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of external interfaces	<input type="text"/>	<input type="text"/>	<input type="text"/>

Reset Next

- The user must enter the required fields with numbers. Enter all simple, average and complex for Number of user inputs, number of user output, number of user inquiries, number of files and number of external interfaces.
- The field is high priority which mean that user cannot proceed to next page until all fields are filled up.
- The fields have constraint that they only accept numbers. If user enters character or white space, the system will pop out warning telling the user of the error.
- Reset button is when user want to remove all the values filled.
- When user confirmed the inputs, they can proceed to next page by clicking "Next".

3. The menu for 14 General System Characteristic (GSC) for calculating Adjusted Function Point.

CRAFTING COST CALCULATOR

Please select the range based on the information given

0 - Strongly not importance	3 - Slightly importance
1 - Not importance	4 - Importance
2 - Slightly not importance	5 - Strongly importance

* - Required

Does the system require reliable backup and recovery? *

0 1 2 3 4 5

Are data communications required? *

0 1 2 3 4 5

Are there distributed processing functions? *

0 1 2 3 4 5

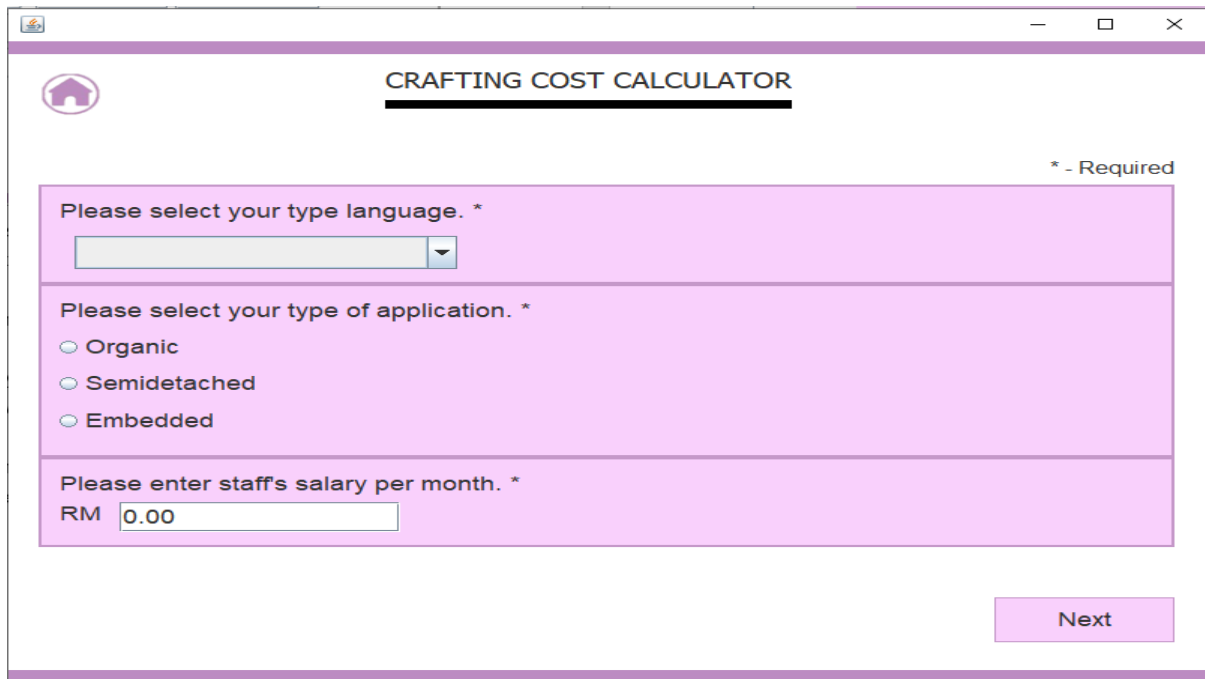
Is performance critical? *

0 1 2 3 4 5

Will the system run in an existing, heavily utilized operational environment? *

- User must tick all the required question with the intended values.
- All question must be ticked before proceeding to next page or else error message will pop out.
- User can use "Back" button to roll back to Unadjusted Function Point page.
- Once ready, user can click "Next" to proceed to next page.

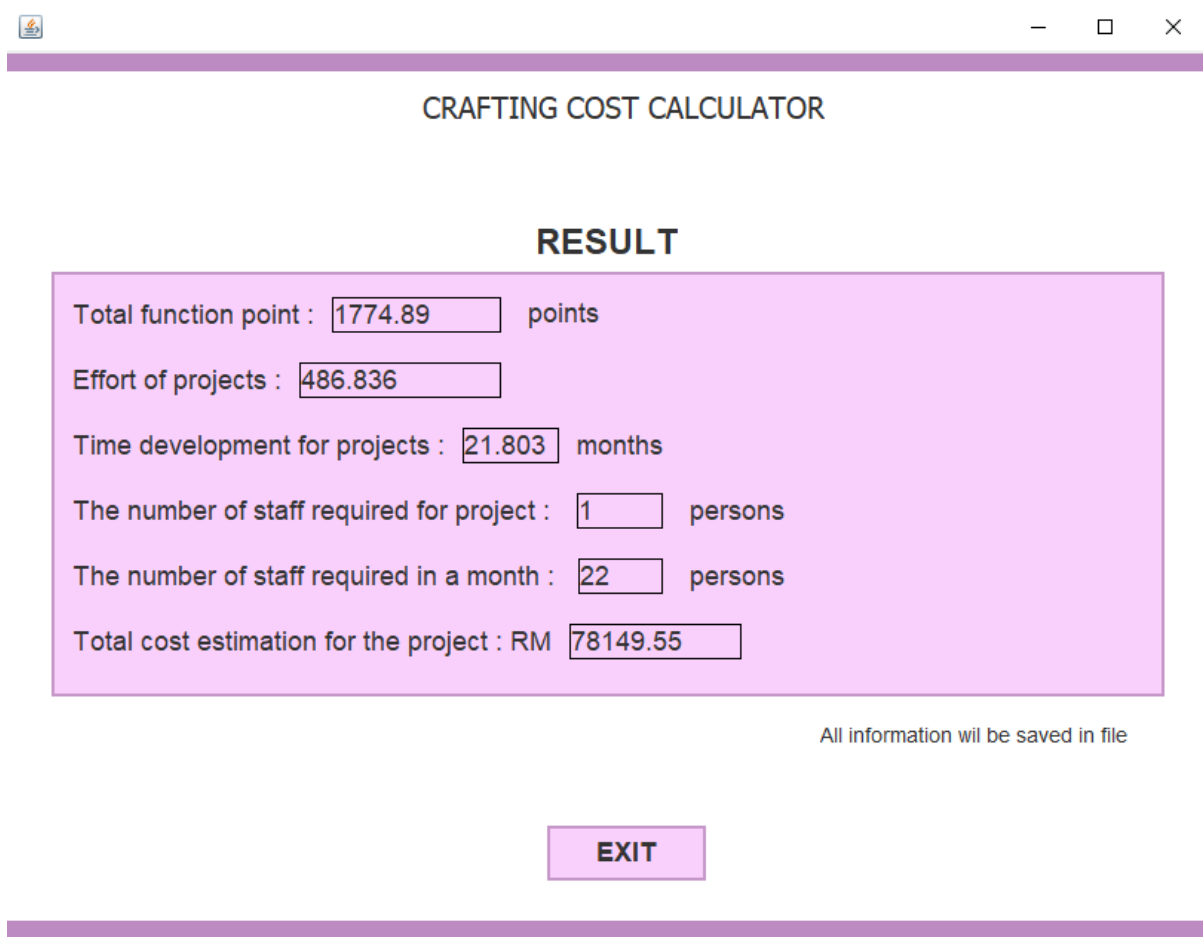
4. Select language, type of application and enter salary for staff.



The screenshot shows a web application window titled "CRAFTING COST CALCULATOR". The interface is divided into three main sections for user input, each with a pink background. The first section asks the user to "Please select your type language. *" and features a dropdown menu. The second section asks the user to "Please select your type of application. *" and includes three radio button options: "Organic", "Semidetached", and "Embedded". The third section asks the user to "Please enter staff's salary per month. *" and contains a text input field labeled "RM" with the value "0.00". A "Next" button is located at the bottom right of the form. A legend in the top right corner indicates that an asterisk (*) denotes a required field.

- The user must select language, type of application and enter the staff's salary per month.
- All 3 menus have high priority. If not entered, error message will pop out.
- **Organic** – A software project is said to be an organic type if the team size required is adequately small, the problem is well understood and has been solved in the past and the team members have a nominal experience regarding the problem.
- **Semi-detached** – A software project is said to be a Semi-detached type if the vital characteristics such as team-size, experience, knowledge of the various programming environment lie in between that of organic and Embedded. The projects classified as Semi-Detached are comparatively less familiar and difficult to develop compared to the organic ones and require more experience and better guidance and creativity.
- **Embedded** – A software project with requiring the highest level of complexity, creativity, and experience requirement fall under this category. Such software requires a larger team size than the other two models and also the developers need to be sufficiently experienced and creative to develop such complex models.
- Once ready, user can click on "Next" button to proceed to next page.

5. Display result for calculations.



The screenshot shows a window titled "CRAFTING COST CALCULATOR" with a purple header and footer. The main content area is white and displays the word "RESULT" in bold. Below this, a light purple rectangular box contains the following information:

- Total function point : points
- Effort of projects :
- Time development for projects : months
- The number of staff required for project : persons
- The number of staff required in a month : persons
- Total cost estimation for the project : RM

Below the light purple box, the text "All information will be saved in file" is displayed. At the bottom center, there is a purple button labeled "EXIT".

- User can view the calculations.
- All the calculations will be stored in files.
- Once user done with the session, user can click on the "EXIT" button.