IMAD5112 ICE TASK 3

Jahnavi Soni

St10495009

READ ME DOCUMENT

What the Carpenter App is and how it works:

The Carpenter App allows the user to calculate an estimated cost for a specific task based on the type of task, the materials required and the number of hours it will take to complete the task.

The app works by using a group of radio buttons to select a task type and a list of checkboxes allowing the user to select one or more materials to complete the task. The user is then prompted to enter the number of hours it would take to complete the task followed by clicking the "Calculate Estimate" button which will then validate all inputs, add up the cost of the materials selected and finally multiply the total costs by the number of hours entered. The app then displays the total estimated cost to the user.
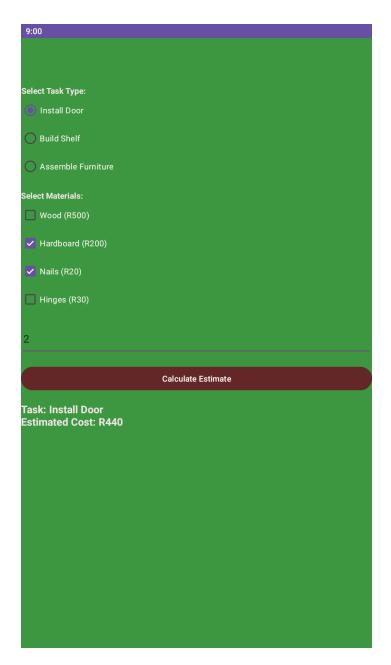
The use of loops in the app:

A for loop had been implemented in the calculation logic to look through each material checkbox and determine whether or not a checkbox had been selected. A minimum of one checkbox must be selected for the calculation to run.

Screenshots of app:

Select Task Type:

◯ Install Door

◯ Build Shelf

◉ Assemble Furniture

Select Materials:

☑ Wood (R500)

☑ Hardboard (R200)

☑ Nails (R20)

☑ Hinges (R30)

5

Calculate Estimate

Task: Assemble Furniture
Estimated Cost: R3750

Screenshot 1.

Select Task Type:

◉ Install Door

◯ Build Shelf

◯ Assemble Furniture

Select Materials:

☐ Wood (R500)

☑ Hardboard (R200)

☑ Nails (R20)

☐ Hinges (R30)

2

Calculate Estimate

Task: Install Door
Estimated Cost: R440

Screenshot 2.