Analysis and Design

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Professor Derek Phair

1. **Request for new application**

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| **Request Name** | Professor Derek Phair |
| **Purpose of Request** | The purpose is the create a GUI application for the flooring company that will aid in tracking customer orders |
| **Title of Application** | Basic Floor |
| **Description** | The application must include at least three tabs. The user will choose wood flooring or carpet, enter the length and width of the floor, as well as the customer name and address. The application will compute the area of the floor and the cost of the flooring considering that wood floor is $20 per square foot and carpet is $10 per square foot. A summary should be displayed, either in a tab or another window, listing the customer name and address, floor selection, area, and cost. This information should also be stored in the MySQL database table. The program should validate that all information is entered and that the length and width are numeric values. Any numeric or currency values must be formatted appropriately when output. |

1. **Problem analysis**

We are working on the flooring company. We were asked you to be a part of their team because they need a computer programmer, analyst, and designer to aid them in tracking customer orders. Our skills will be needed in creating a GUI program that calculates the flooring cost and stores the order in the database.

* + Calculate the cost of materials types and quantity have to be purchased for the project
  + Summaries the order information to the user
  + Calculate the area of the floor and combine it with the order
  + Save the user inputs to the database to store his/her information for the further use

1. **List and description of the requirements**
   * Top portion of the site (“Tabs”)
     1. File – will give option for the user to exit
     2. Order – add a new order item
     3. Edit – clear the user order fields before the actually was submitted
   * User Information (“Text Field”)
     1. Customer First Name
     2. Customer Last Name
     3. Customer Address (“written fully as one string”)
     4. Floor Width and Floor Length
   * Floor Type (“Radio Buttons)
     1. Wood
     2. Carpet
   * Button Groups (“Button”)
     1. Calculate Area
     2. Calculate Cost
     3. Submit Order
     4. Display Order Summary
     5. Display Order List
2. **Interface storyboard or drawing**











1. **Design flowchart or pseudocode**