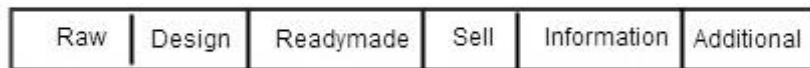
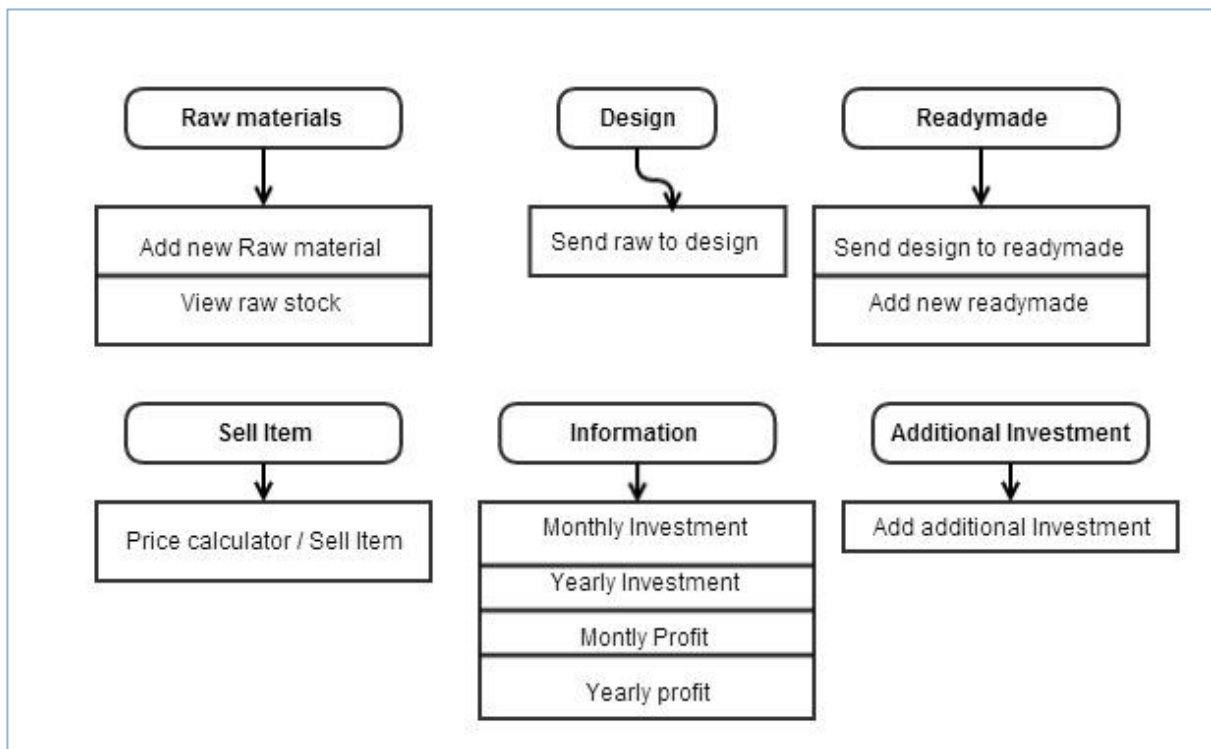


Criterion B: Design

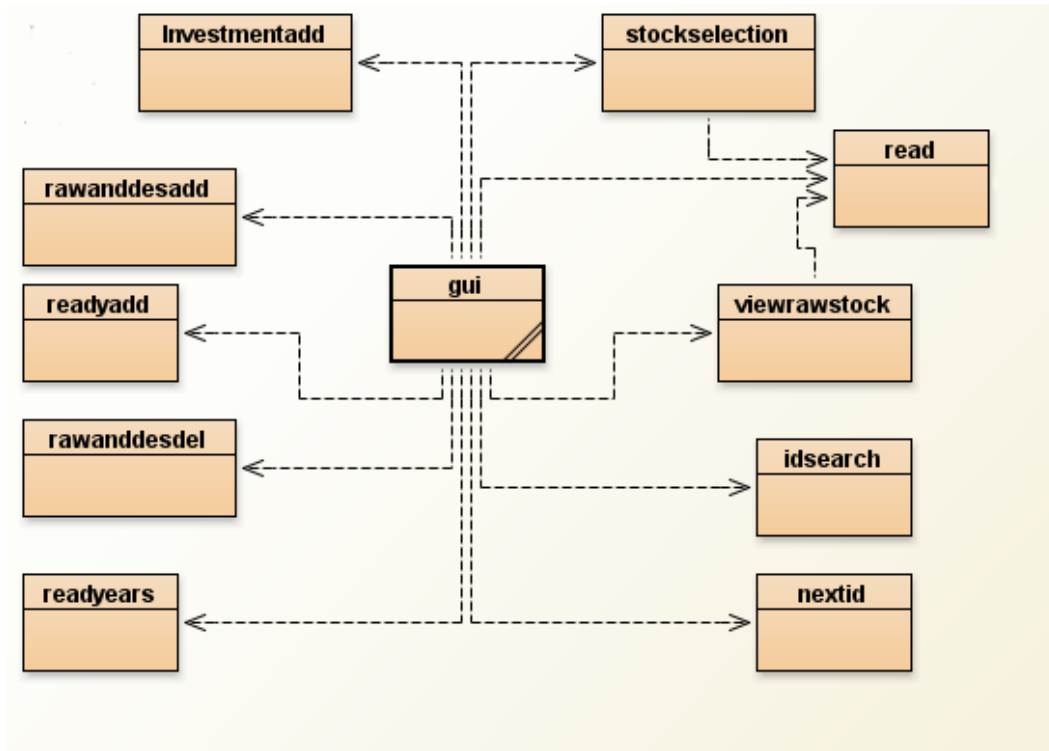
Elements required to be kept in the Menubar :



Submenus for each menu:



Relationships between the classes



Functionality of each class

gui – Creates all the user interfaces, has the main class and creates the engine that connects the other classes to the gui.

rawanddesadd – Allows addition of Raw materials and designs to them.

readyadd – Facilitates addition of Ready materials

rawanddesdel – Deletes entries from the raw material table when they are ready for selling

readyyears – Reads the years when the business is active, for calculation of investment and profits

Investmentadd – Adds the monthly and the yearly investments to a table

read – reads data from the tables

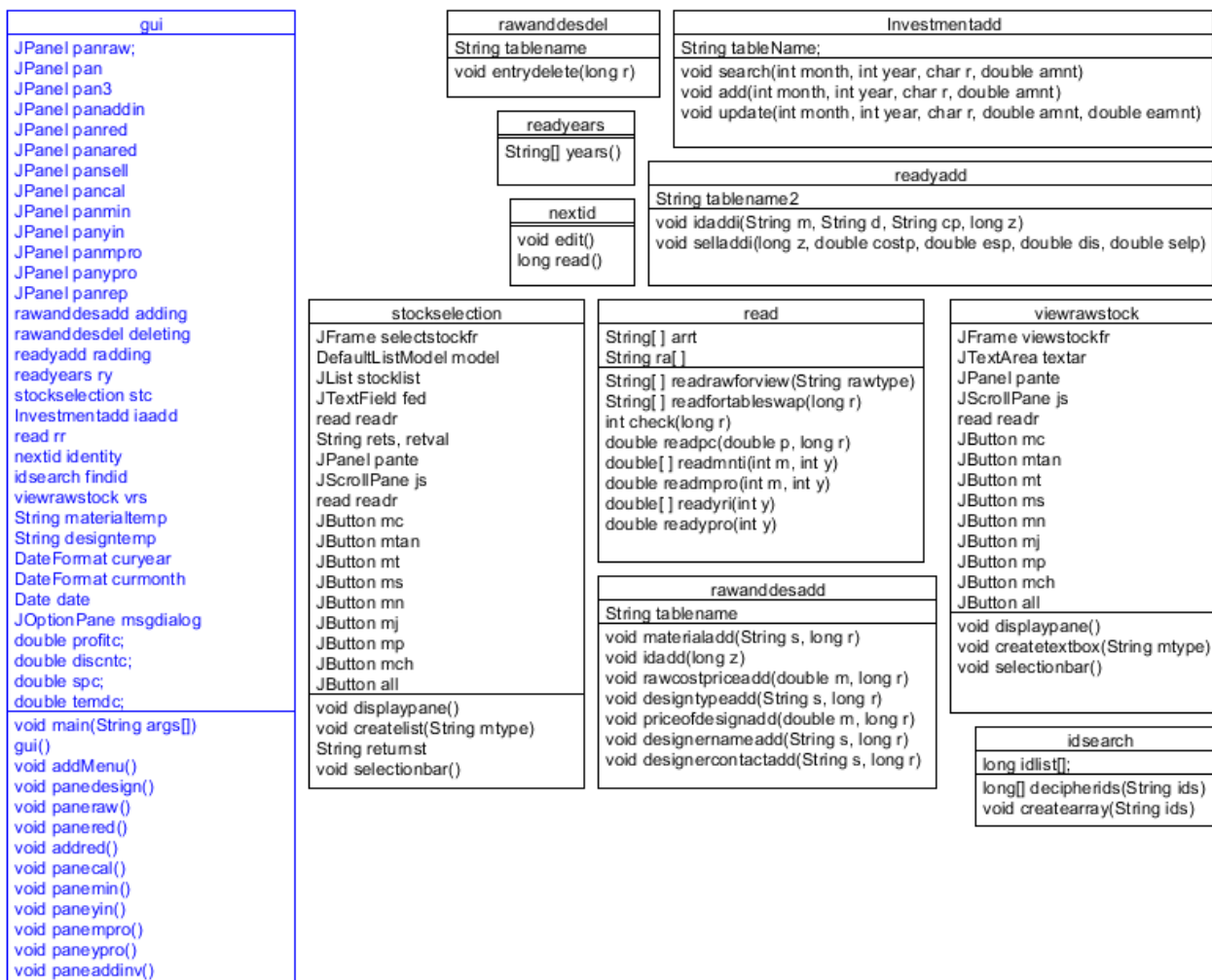
stockselection – allows selection of raw materials from a list when being sent off for design

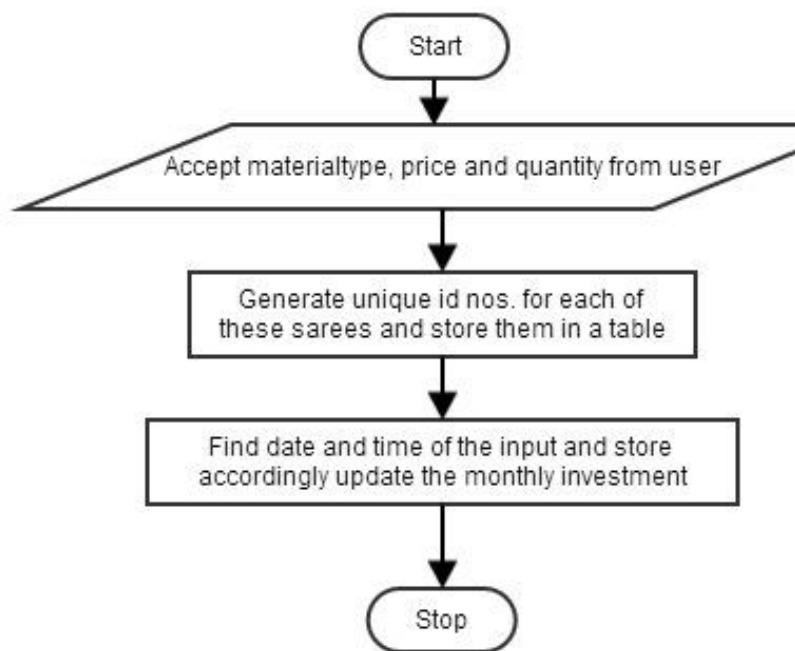
viewrawstock - allows the users to view available raw stock

idsearch – searches for an id in a table

nextid – reads and edits the present id when material is added

Class diagrams (showing members of each class) and Important algorithms





-Figure 1 - Adding raw material flowchart

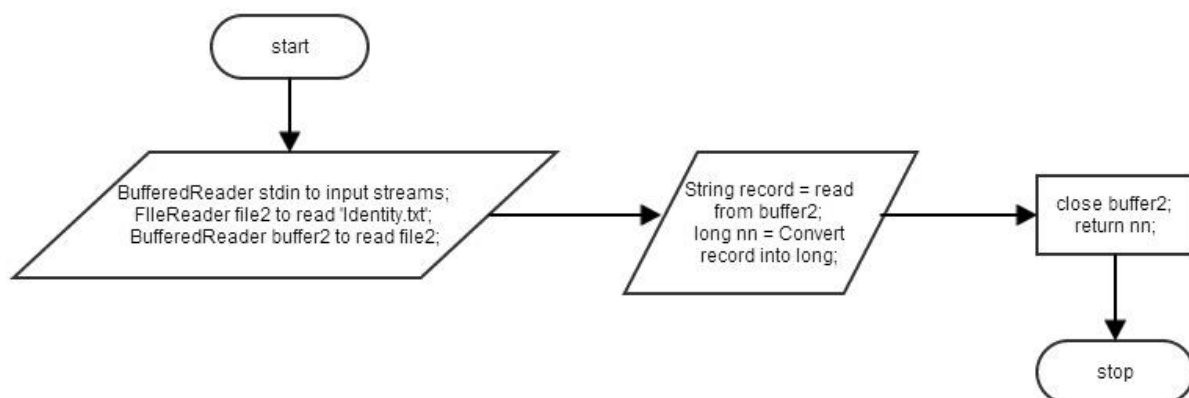


Figure 2 - Read the present id no. flowchart

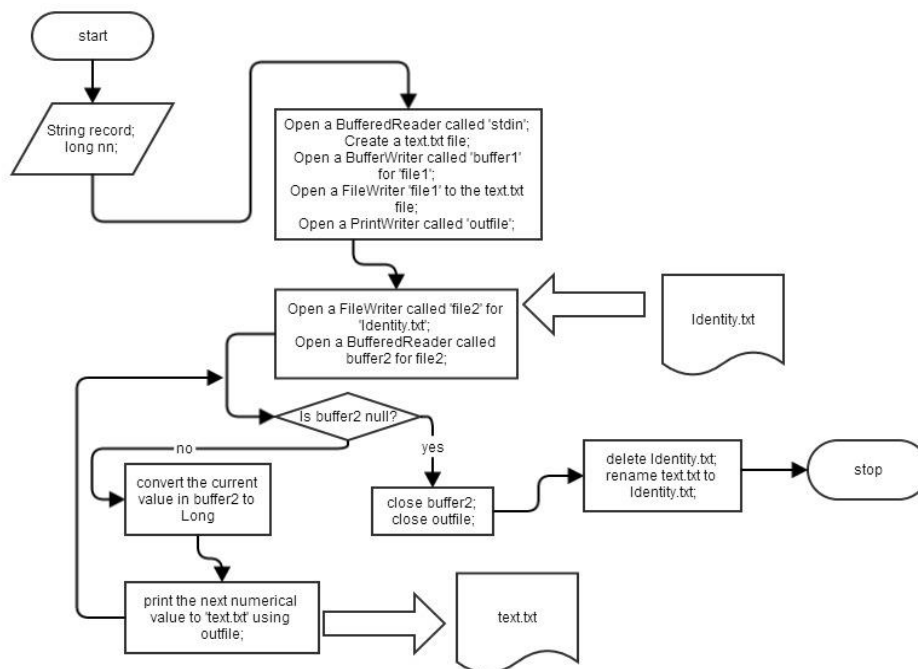


Figure 2 - Edit identity nos. flowchart

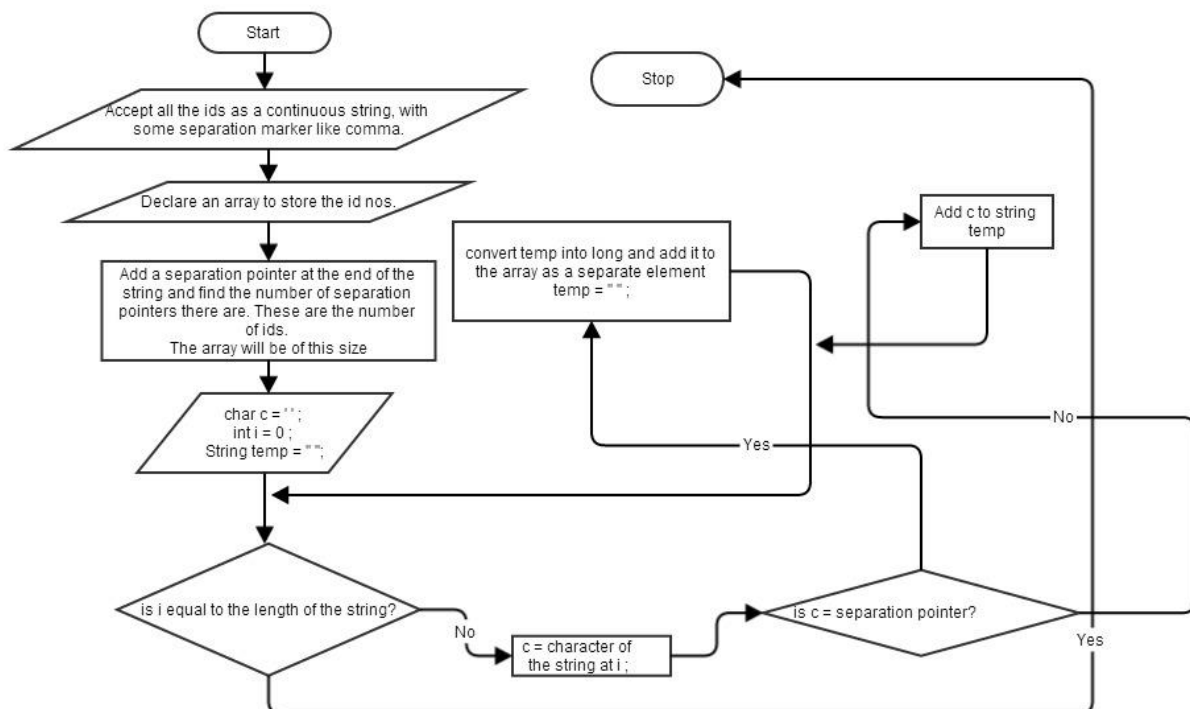


Figure 4 - Decipher accept id nos. flowchart

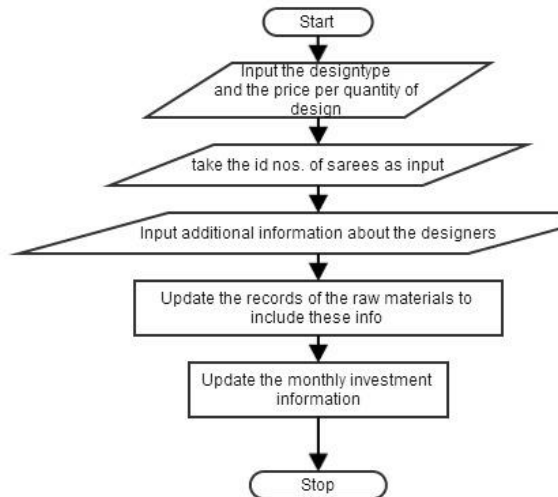


Figure 3 - Send raw to design flowchart

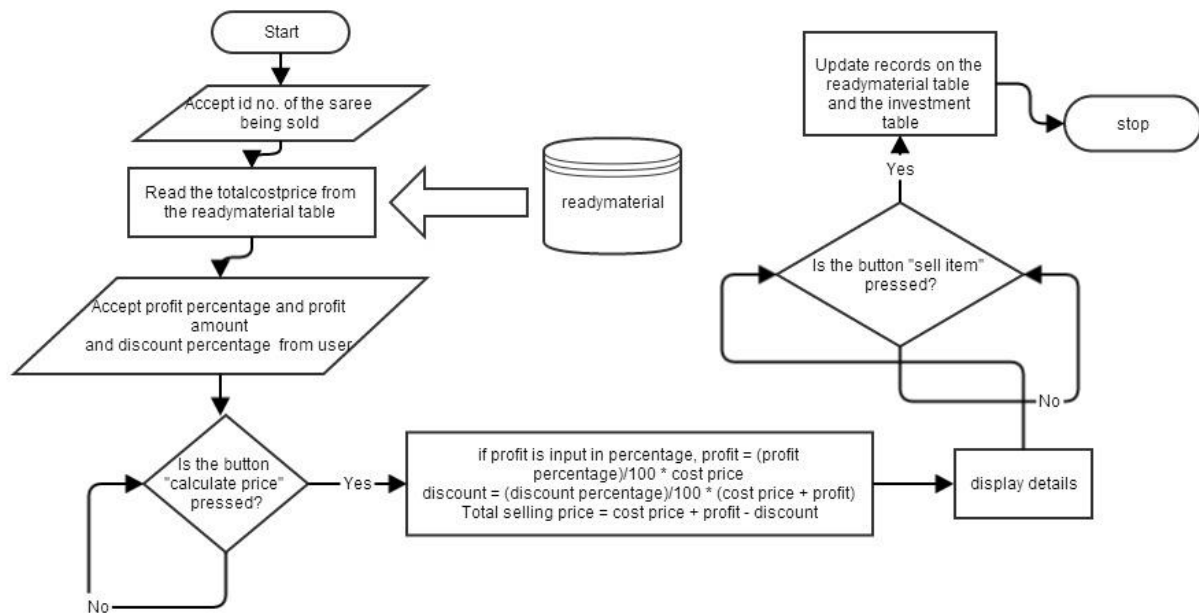


Figure 4 - Calculate selling price flowchart

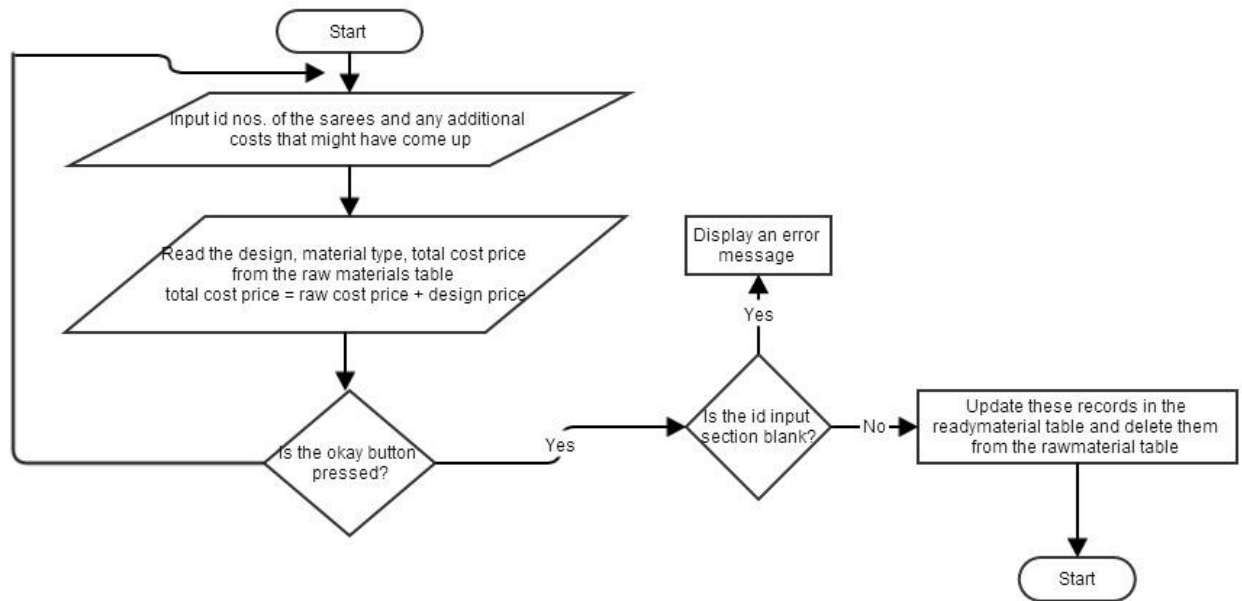


Figure 5 - Send design to readymade flowchart

Databases and files created manually before writing the program

A database called myDB.mdb is created in the project folder where all the java classes are located, with the following tables.

Financialchart	month	year	investmentonraw	investmentondesign	additionalinvestment	profit
*						

Figure 6 - The Financial chart table

Financialchart	RawandDesign	id	materialtype	rawcostprice	gonefordesign	designstype	priceofdesign	nameofdesigner	contactnumberdesigner	detailsofdesigner
*										

Figure 7 - The RawandDesign table

Financialchart	RawandDesign	ReadyMaterial	id	hassold	material	design	additionalcosts	totcostprice	estimatedprofit	discount	finalsp	finalprofit
*												

Figure 8 - The ReadyMaterial table

Design of panels (Graphical User Interface)

Figure 9 - The Add new Raw materials panel design

Id nos.	Material of saree	Price of Raw material
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Figure 10 - View raw stock panel design

Select design :

- ☐ Batik
- ☐ Embroidery
- ☐ Acid Paint
- ☐ Aplick
- ☐ Hand Painting
- ☐ Block

Enter id nos. of sarees :

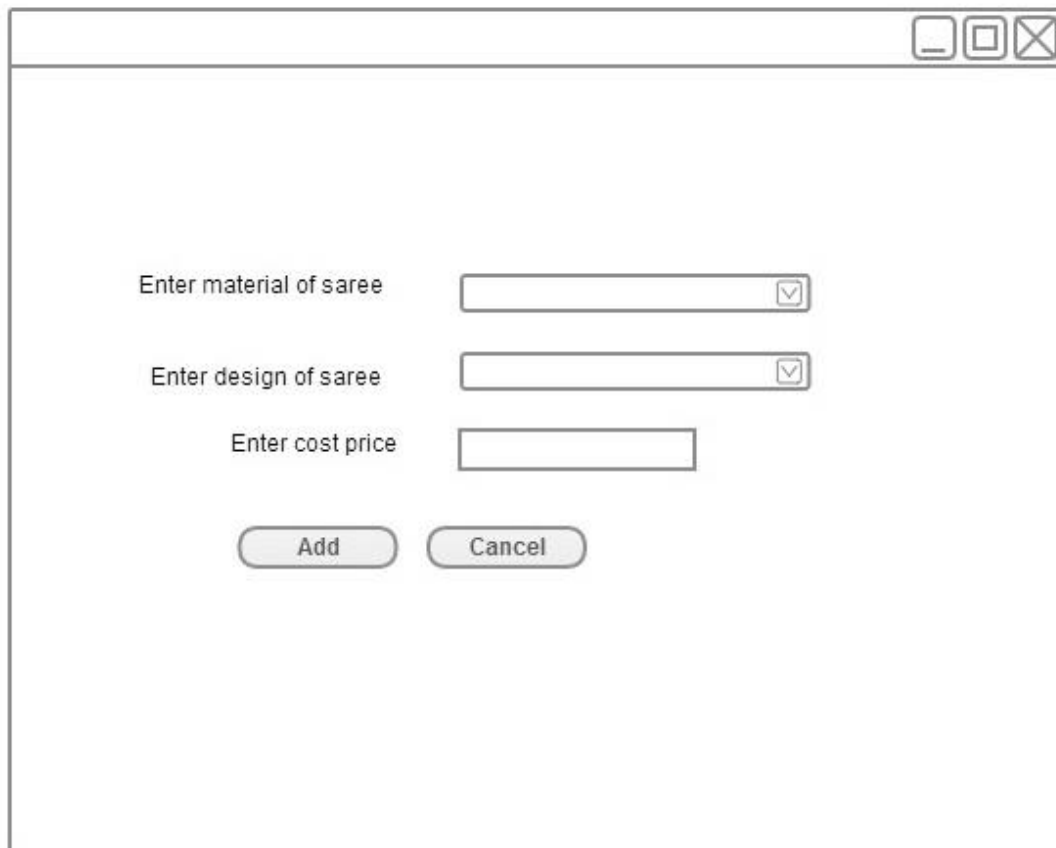
Enter price per quantity

Enter name of designer :

Enter contact no. of designer :

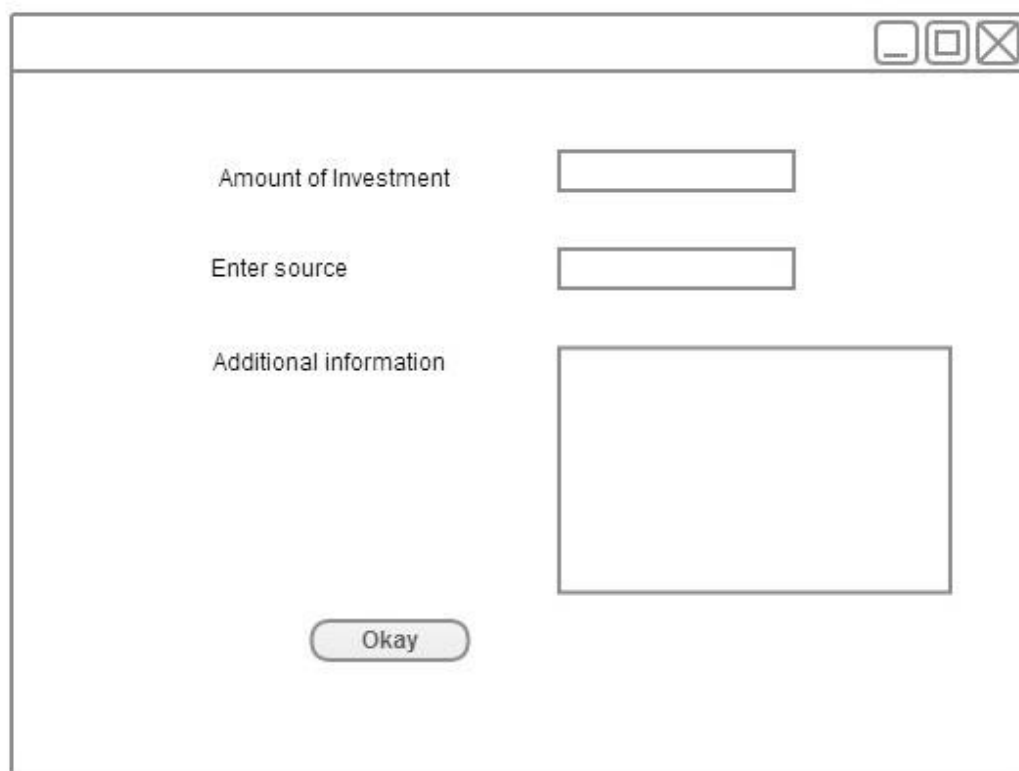
Enter details of designer :

Figure 11 - Send raw material for design panel



A software window titled "Add new readymade material panel" with standard minimize, maximize, and close buttons in the top right corner. The panel contains three input fields: "Enter material of saree" and "Enter design of saree" are dropdown menus, each with a small square icon containing a checkmark on its right side. "Enter cost price" is a standard text input field. Below the input fields are two buttons: "Add" and "Cancel".

Figure 12 - Add new readymade material panel



A software window titled "Enter additional Investment panel" with standard minimize, maximize, and close buttons in the top right corner. The panel contains three input fields: "Amount of Investment" and "Enter source" are text input fields. "Additional information" is a larger text area represented by a rectangular box. Below the input fields is a single button labeled "Okay".

Figure 13 - Enter additional Investment panel

Select month :

Select year :

Show Profit

Total Profit

Figure 14 - The view monthly profit panel

Enter id no. of saree (only one allowed)

Enter profit percentage or profit amount ☐

Calculated selling price

Figure 15 - The sell item/calculate selling price panel

A window titled "view monthly investment panel" with standard window controls (minimize, maximize, close) in the top right corner. The panel contains the following elements:

- "Select month :" followed by a text input field and a checkmark icon.
- "Select year :" followed by a text input field and a checkmark icon.
- A rounded button labeled "Show Investment".
- A list of four investment categories, each followed by a text input field:
 - Investment on Raw materials
 - Investment on design
 - Additional Investment
 - Total Investment

Figure 16 - The view monthly investment panel

A window titled "view yearly investment panel" with standard window controls (minimize, maximize, close) in the top right corner. The panel contains the following elements:

- "Select year :" followed by a text input field and a checkmark icon.
- A rounded button labeled "Show Investment".
- A list of four investment categories, each followed by a text input field:
 - Investment on Raw materials
 - Investment on design
 - Additional Investment
 - Total Investment

Figure 17 - The view yearly investment panel

Id nos.	Material of saree	Price of Raw material
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Figure 18 - The select from stock panel

Select year :

Total Profit

Figure 19 - The calculate yearly profit panel

Test Plan

Action to be Tested	Test method
Unique no. being added to each new added raw material and readymade material	Input a large number of both new raw stock and readymade material and check the rawmaterial table and readymaterial table to see if all of them have been added with unique id nos.
Program is able to read and edit values in the database	Check the 'all' section in the viewrawstock Frame with the rawmaterial table to see if all the materials in the database are displayed. Update design information of some sarees using the sendrawtodesign panel and check to see if the changes have been reflected in the rawmaterials database
All the graphical interfaces are doing their appropriate functions	Run the program multiple to test individual features linked to graphical elements with various inputs and check if they are performing the desired functions.
Selection of sarees from a stock list is functional	While using the raw to design panel, input multiple ids by the select from stock option. Check the database for appropriate changes.
Check if the price calculator is functional	Check the readymaterial table for the raw data of the calculations, and manually check the results given with a calculator. If the values match, the calculator is functioning properly.
Check if the investment and profit reports are functional	Manually input data in the Financialchart table and then use the view investment and profit functions. If what was typed is returned, then the algorithm is functional.
additionalcosts being added to investments	Add additionalcosts multiple times both when sending design to readymade, and also using the add additional investment panel and check if the changes are being reflected in the Financialchart database.

Word count : 149