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2015

***COMMERCIAL FIRM MANAGER***



SOFTWARE

PROJECT CS101

Made by - Rahul Chaplot(140040066)

Vinayak Suthar(140040036)

Shubham Patil (14D170015)

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**1. Project Overview**

Development of Commercial Firm Manager with the work of overall database management of company or firm.

* In present context , we have lots of factories, firms, industries around us. They need some software for complete management. We have made software for the same.
* The COMMERCIAL FIRM MANAGER is a software designed for a production factory or firm. The main idea behind the software is to provide ease with the management of stock , production, Sales and overall database management of a particular firm.

**2. The Purpose of the Project**

**2.1 Background of the Project Effort**

The problems faced by a Company staff in integration of all different kinds of data i.e. Stock, Credit and Debit, Sales .

Every company needs a software that stores data related in a user friendly way.

**2.2 Goals of the Project**

1. Develop a Multifunctional database management software.

2. Handling data of multiple companies differently.

3. Addition of Billing functionality in a database software.

4. Login function provided to the user for secuirity purposes.

**3. The Scope of the Work**

**3.1 The Current Situation** :

The current status of CFM is faced with following problems-

1. Interlinking of Raw stock and Manufactured stock.(only billing and manufactured stock are interlinked.)

2. Capital management is not much effective in the software .

**3.2 The Context of the Work**

The intent of the project is to develop a system which takes input from users, viz. Company owner, Sales manager in the form of data and saves it in binary files for accessing in future.

Prepares Bill for the customer according to the entries given.

**3.3. Partition of Work**

* **Rahul Chaplot(140040066)** :

Teach/Solve doubts about concepts to team members , Coding file handling and Canvas screen input functions part ,handling the graphics part,create homepage and Billing Homepage design,converting code given by teammates into graphics form(cin->cinstr,cout->Text t(x,y,str)) ,

Login function development and its implementation.

* **Vinayak Suthar (140040036)** :

Making member function , Search Option,Insertion of Data,Making txt file and binary files ,some documentation part,adding comments, Manufactured stock, coding.

* **Shubham Patil(14D70015)** :

Deletion functions, Rawstock ,testing and debugging the code. Expenditure,credit functionality.Security option, Transport Option ,documentations etc.

4.Software Architecture

5.Challenges Faced

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| --- | --- | --- |
| CHALLENGE NAME | DESCRIPTION | ANEMIOLATION |
| Switching Canvas | Switching from one window to another . | Made each window in a function and overlapped this with previous window. |
| On screen Input | There is no text box in Canvas window to get input on screen | We have to make a function to get input on screen was named as cinstr(int,int) |
| Integer and double input | cinstr was for string input only but we had to tackle int float and double type quantities | We defined a function a function which convert char\_to\_int . |
| Interlinking of rawstock and manfuctured stock | Interlinking of product stock items with rawstock items &access of rawstock info . | We tried filed handling but we were not able to do it effectively  So we restricted this function |
| Data overflow | Intitally there was some time overflow of data in binary  files. | We analysed code thoroughly and assigned initial null values in arrays and strings. |
| Billing | In billing product data is accessed from product stock  and the data has to be updated simultaneously. | We learnt more about data file handling and its applications &we were able to over come this challenge. |

**6. Design Constraints**

1. Use of basic graphics library initCanvas for the user interface restricts animation and ease in multiple window switching.
2. Perfect input of data on canvas screen without errors.
3. Input on canvas can be only in form of string which restricts use of it in calculations.

**7. Bugs**

1. Sometimes input in canvas start with the 2nd or 3rd letter of input.

2. After Login screen appears , the software doesn’t goes back until successful login.

**8. Future work**

1. Use of sound processing for notifications in Rawstock and Manufactured stock.

2. Complete Canvas input of data.

3. Addition of more functionalities like Labour management and limitation of products in manufactured stock acc. Govt rules.

**9. TOOLS USED**

Codeblocks compiler with simplecpp graphics integrated system

Windows 8 OS

Microsoft Word 2010

Google Chrome .

**10. REFERENCES**

a> Lecture Slides of Prof. Supratik Chakraborty and Prof. Deepak Phatak .

b> C++ by Sumita Arora .C++ by E.Balagurusamy. C++ by Prof.Abhiram Ranade.

c> Various blogs and sites on net

d> Wikipedia

e>cplusplus.com

f>stackoveflow.com

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