

PROJECT REPORT

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COURSE NAME: IT206 DATA
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TOPIC NAME: FILE MANAGAMENT

PROBLEM STATEMENT:

File Handling is the storing of data in a file using a program. In C programming language, the programs store results, and other data of the program to a file using file handling in C. Also, we can extract/fetch data from a file to work with it in the program.

File handling in our day to day life can be used in many ways in programming like:

- Student management
- Shop market management
- Bus management
- Hotel management
- Railway management
- Hospital management

Thus, in every aspects of management we use file handling.

Here we have used file handling in shop market management to quickly calculate work seamlessly and efficiently so we would be using shop market management as an example of file handling.

SOLUTION:

A classic UI for user to carry their day-to-day stuff using these program. It has features such as adding a new product, to display all products which saves a lot of time finding. The user can also modify their existing product or can also delete it. User can also give discounts just by using this program which is a best timesaver. This can also be used as best billing machine as it requires no any other plug-in. It has a varied range of usage as it can used anywhere such as groceries stores, medical store, bakery and list goes on.

APPROACH:

- We used linked list as data structure to handle every data entered. It also regulates every product available in the shop or store which gives a much ease to the shop keeper managing products.
- We have used Input-Output function in cpp which plays a crucial role in file handling.
- We have used header files such as iostream, string, fstream, sstream.
- We have tried to keep it as minimal as possible so that it doesn't seem bulky and confusing to use.
- Creating a new file Opening an existing file Reading data from an existing file
- Writing data to a file Moving data to a specific location on the file
- Closing the file

WHAT WE HAVE LEARNT:

- How can we customize any program so that it is user friendly.
- How designing and color pattern plays and important role in work flow.
- Came to know about many headers files while researching about the project.
- We explored our creativity and found our potential.
- Most importantly we realised how data structure is important to us.

PROBLEM WE FACED:

It was very hard to carry out research.

We were getting problem to use data structure in file management because file management is a topic of input-output programs in cpp as they minimize the usage of array, stacks, linked list, queue, etc.

As there are many number of functions used in the program we faced difficulties calling out a functions in a decent manner.

LIMITATIONS:

On using different language could have made program more user friendly as well as more efficient.

It becomes hard for the customer to make changes in the program due lack of knowledge (user can't even change the desired color of choice without knowing enough of programming).

It is very hard to keep up the maintenance.

It requires more and more complex algorithm for making it more efficient.