



SECURE PROGRAMMING WITH C

UE19CS257C

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PROJECT TITLE

A mini employee leave management system

- We need to have the employee details in a file, allow the employee to log in using his employee ID (which is unique)
- allow employees to avail a certain number of leaves per year (which is split into x casual leaves, y medical leaves and z earned leaves)
- if the employee is well within the allowed limits, automatically approve the leave; else reject and provide the reason.

Compiler used - GNU GCC

STATIC ANALYSIS TOOL EMPLOYED-SPLINT

We are trying to implement the concept of POPULATING A STRUCTURE BY READING A FILE

The code has :

- **void main2() :**

this contains the main part of the code workings, its purpose is explained below just before the function

- **void final_print() :**

prints the details of the user on quitting the wizard

- **void quit() :**

this is function which handles the termination of code prompting the user to take another trail/attempt to login

- **void again() :**

this function handles the login if user wishes to take another leave

- **void table(charfile_n[]) :**

populating the structure from data elements from the file by using specific delimiter

- **int login() :**

this function verifies the password with the one present in the file database

Data-Flow Diagram:

The following diagram represents the sequence of function calls and execution flow of the pseudo-code.

