Step-by-Step Interaction Through Code Components

Scenario: User Logs In and Changes Company Number

Step 1: User Logs into the System

User Action:

1. User enters login credentials and logs into the system.

System Response:

1. The system authenticates the user and verifies permissions.

Step 2: System Retrieves User Data

System Action:

1. The system calls program DSB002 to get user data from the user control file and place it in the LDA.

Source Files Involved:

- DSB002 (ProgramLogic): Retrieves user data from the BUUSERS file.
- BUUSERS (PhysicalFile): Contains user control data.

Behavior:

- DSB002 reads the BUUSERS file to fetch user-specific data.
- The retrieved data is placed in the Local Data Area (LDA).

Step 3: System Displays Main Menu

System Action:

1. The system calls program MNU003 with parameters OUTQ, FRMENU, and TOMENU to display the main menu.

Source Files Involved:

- MNU003 (ProgramLogic): Handles the display of the main menu.
- MNU003DSP (DisplayFile): Contains the display attributes and record formats for the main menu.

Behavior:

- MNU003 uses the data in the LDA to determine the user's profile and permissions.
- MNU003DSP is used to render the main menu on the screen with options based on the user's profile.

Step 4: User Changes Company Number

User Action:

1. User presses F11 to change the company number.

System Response:

1. The system calls program MNU010 to handle the change of the company number.

Source Files Involved:

- MNU010 (ProgramLogic): Manages the change of the company number.
- MNU010DSP (DisplayFile): Contains the display attributes and record formats for changing the company number.

Behavior:

- MNU010 updates the company number in the LDA based on user input.
- MNU010DSP is used to display the interface for changing the company number.

Step 5: System Updates Company Number

System Action:

1. The system updates the company number in the LDA.

Source Files Involved:

- LDA (DataStructures): Local Data Area where the company number is stored.

Behavior:

- The new company number is validated and updated in the LDA.

Step 6: User Selects a Menu Option

User Action:

1. User selects a menu option from the main menu.

System Response:

1. The system evaluates the selected option.

Source Files Involved:

- MNU003 (ProgramLogic): Evaluates the selected menu option.

Behavior:

- MNU003 checks if the selected option is valid and if the user has the necessary permissions.

Step 7: System Executes Menu Option

System Action:

1. If the option is valid, the system executes the selected menu option.

Source Files Involved:

- Appropriate program or command based on the selected option.

Behavior:

- The system calls the appropriate program or command to execute the selected menu option.

Step 8: System Tracks Menu Option Usage

System Action:

1. The system captures the details of the selected option and writes a record to the MNUUSG file to track the usage.

Source Files Involved:

- MNUUSG (PhysicalFile): File to track menu option usage.

Behavior:

- The system logs the menu option usage details in the MNUUSG file for tracking purposes.

Summary

This step-by-step interaction describes the flow of a user logging into the system, changing the company number, and selecting a menu option. The interaction involves multiple programs (DSB002, MNU003, MNU010), display files (MNU003DSP, MNU010DSP), and data structures (LDA, MNUUSG). Each step is linked to the corresponding use case and source files, providing a comprehensive view of the system's behavior.