2025

MENU-BASED SYSTEM

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1.0 OVERVIEW

This user manual provides instructions on how to set up and use a menu-based system to run different programs. The menu allows users to select from a list of options, each corresponding to a specific program or feature. The system will continuously display the menu until the user chooses to quit.

2.0 MENU OPTIONS

The menu offers the following options:

1. **Complete a travel claim**
    - This option is for processing travel-related claims.
2. **Fun interview question**
    - This option presents a fun or challenging interview question.
3. **Cool stuff with strings and dates**
    - This option demonstrates interesting operations with strings and dates.
4. **A little bit of everything**
    - This option includes validation, formatting and a well designed output.
5. **Something old, something new**
    - This option showcases a new knowledge researched in python.
6. **Quit**
    - This option exits the menu-based system.

3.0 HOW IT WORKS

1. The menu is displayed in a loop, allowing the user to select an option repeatedly.
2. Based on the user's choice, a message is printed:
   "This is option X from the menu."
   (X is replaced with the selected option number.)
3. The loop continues until the user selects **Option 6 (Quit)**.

4.0 CODE IMPLEMENTATION

Below is the Python code for the menu-based system:

```python
while True:
    print()
    print("Midterm Sprint - Main Menu")
    print()
    print(f"    1. Complete a travel claim.")
    print(f"    2. Fun interview question.")
    print(f"    3. Cool stuff with strings and dates.")
    print(f"    4. A little bit of everything.")
    print(f"    5. Something old, something new.")
    print(f"    6. Quit.")
    print()

    choice = input("Enter choice (1-6): ")

    if choice == '1':
        print()
        print("This is option 1 from the menu.")
        print()
    elif choice == '2':
        print("This is option 2 from the menu.")
    elif choice == '3':
        print("This is option 3 from the menu.")
        print()
    elif choice == '4':
        print("This is option 4 from the menu.")
        print()
    elif choice == '5':
        print("This is option 5 from the menu.")
        print()
    elif choice == '6':
        print("Exiting program. Goodbye!")
        print()
        break
    else:
        print("Invalid choice. Please enter a number between 1 and 6.")
        print()

```

Figure 1: Code Sample

5.0 INSTRUCTIONS FOR USE

1. Run the program.
2. The menu will be displayed on the screen.
3. Enter the number corresponding to your desired option (1-6).
4. The program will print a message confirming your selection.
5. If you select **Option 6**, the program will exit.
6. For invalid inputs, the program will prompt you to enter a valid choice.

6.0 EXAMPLE OUTPUT

```
Midterm Sprint – Main Menu

    1. Complete a travel claim.
    2. Fun interview question.
    3. Cool stuff with strings and dates.
    4. A little bit of everything.
    5. Something old, something new.
    6. Quit.

Enter choice (1–6): 2
This is option 2 from the menu.

Midterm Sprint – Main Menu

    1. Complete a travel claim.
    2. Fun interview question.
    3. Cool stuff with strings and dates.
    4. A little bit of everything.
    5. Something old, something new.
    6. Quit.

Enter choice (1–6): r
Invalid choice. Please enter a number between 1 and 6.


Midterm Sprint – Main Menu

    1. Complete a travel claim.
    2. Fun interview question.
    3. Cool stuff with strings and dates.
    4. A little bit of everything.
    5. Something old, something new.
    6. Quit.

Enter choice (1–6): 6
Exiting program. Goodbye!
```

Figure 2: Code Output Sample