

Calendar Application Report

Overview:-

This calendar application, developed using the Python tkinter library, provides a user-friendly graphical interface for displaying a full-year calendar for any specified year. It includes features such as viewing the calendar, clearing the input, and exiting the application.

Features

1. **Main Window:** The application opens with a main window where users can enter the year they wish to view the calendar for.
2. **Display Calendar:** When the user clicks the "Show Calendar" button, a new window opens displaying the calendar for the specified year.
3. **Clear Input:** The "Clear" button allows users to clear the year input field.
4. **Exit Application:** The "Exit" button closes the application.
5. **User Input Validation:** The application validates the input to ensure a valid year is entered, showing an error message for invalid input.

Components

1. **Main Window:**
 - **Title:** "CALENDAR"
 - **Background Colour:** Light blue
 - **Size:** 540x540 pixels
2. **Frame:** A frame within the main window for better organization, with padding for spacing.
3. **Labels:**
 - "CALENDAR" label at the top with a large font.
 - "Enter Year" label next to the entry field for user guidance.
4. **Entry Field:** A text entry field for the user to input the year.
5. **Buttons:**
 - **Show Calendar:** Opens a new window displaying the calendar.
 - **Clear:** Clears the content of the entry field.
 - **Exit:** Exits the application.
6. **Calendar Display Window:**
 - **Title:** "CALENDAR"
 - **Background Colour:** White
 - **Size:** 580x600 pixels
 - Displays the calendar for the entered year in a Label widget.

Code Structure:-

- **Function showCal:** Handles the creation of the calendar display window, fetching and displaying the calendar for the entered year. It also includes error handling for invalid input.
- **Function clear:** Clears the content of the year entry field.
- **Main Execution Block:** Sets up the main window, including the frame, labels, entry field, and buttons. It also binds the buttons to their respective functions.

User Interface:-

- The interface is simple and intuitive, with a clear layout and distinct buttons for each action.
- The main window allows for easy year entry and includes buttons for showing the calendar, clearing input, and exiting.
- The calendar display window provides a clear and readable calendar for the specified year.

Conclusion:-

This calendar application is a functional and user-friendly tool for displaying yearly calendars. It is built using Python's tkinter library and demonstrates effective use of GUI components, event handling, and error management.

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