**Bug Tracker (2-week) GUI Application Documentation**

**Introduction**

The "Bug Tracker (2-week)" GUI application (PlotSearch.py) serves as an interface for users to interact with the bug tracking functionality provided by the **sendable\_bug\_tracker** script. This application streamlines the process of providing input parameters and executing the bug tracking script, which fetches bug statistics over a two-week period from the Bugzilla database.

**Application Workflow**

1. **Imports**
   * **tkinter**: Offers the framework for creating the GUI.
   * **sendable\_bug\_tracker**: Imports the **run\_script** function from the external script responsible for bug tracking.
2. **GUI Elements and Function**
   * **tk.Tk()**: Creates the main application window with a title.
   * The GUI includes input fields for project, component, and bug severity, as well as a button to trigger the bug tracking process.
   * **run\_bug\_tracker()**: A function associated with the "Run Bug Tracker" button.
3. **Function Logic**
   * **run\_bug\_tracker()** is called when the "Run Bug Tracker" button is clicked.
   * It retrieves the user-provided inputs for project, component, and bug severity.
   * The **run\_script()** function from the external script is invoked, passing the user inputs as parameters.
   * The external script then executes the bug tracking process based on the provided inputs.
4. **Layout Setup**
   * Labels, entry fields, and the button are created using **tk.Label**, **tk.Entry**, and **tk.Button** widgets.
   * The **.grid()** geometry manager is used to organize these elements in a grid layout, allowing for proper alignment and spacing.
5. **Start the GUI Event Loop**
   * **app.mainloop()** initiates the main event loop.
   * The loop keeps the GUI responsive to user interactions, such as button clicks and input entries.

**Usage**

1. Launch the application.
2. Input the following details in the provided input fields:
   * **Product**: Enter the product/project name for bug tracking.
   * **Component**: Enter the component related to the bugs.
   * **Bug Severity**: Enter the severity level of the bugs to be searched for.
3. Click the "Run Bug Tracker" button.
4. The application triggers the **sendable\_bug\_tracker** script with the provided inputs.
5. The bug tracking script fetches and displays bug statistics over a two-week period based on the specified criteria.

**Conclusion**

The "Bug Tracker (2-week)" GUI application simplifies the process of interacting with the bug tracking script. It provides an intuitive interface for users to input parameters and trigger the bug tracking process. By seamlessly integrating the external script, users can conveniently fetch and display bug statistics from the Bugzilla database over a two-week period.