Developer Console Basics

Wednesday, April 19, 2017 7:44 AM

Get Started with Dev. Console

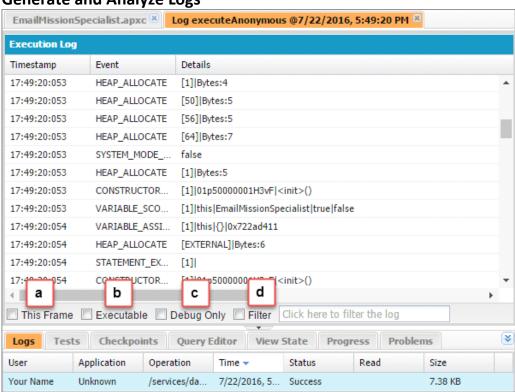
Set up a workspace using <u>Workspace Manager</u>. In each workspace, you can create Apex classes, Lightning components, Vforce pages and more.

It's recommended to assign each project their own workspace.

Navigate and Edit Source Code

If the code syntax is incorrect, the Problems tab will show what and where the error is.

Generate and Analyze Logs



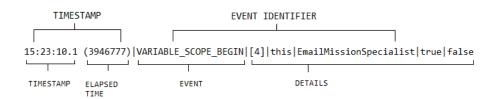
Analyzing logs:

<u>Timestamp</u> - when the error occurred

Event - the action that caused the error

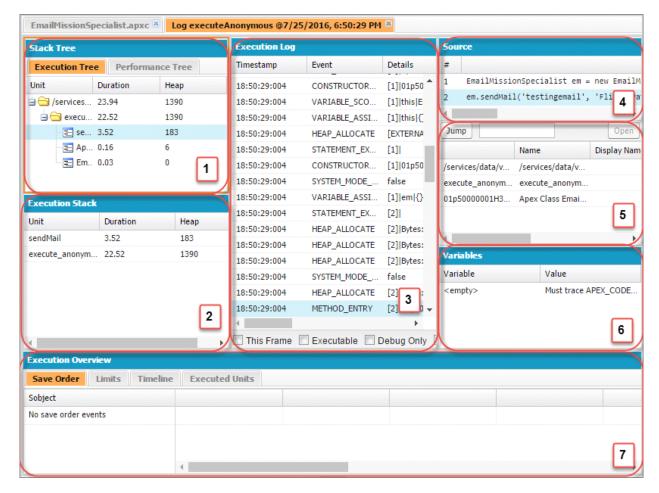
<u>Details</u> - Line of code and the method name where the code was executed.

The image above shows how you can filter the debug log. Filter allows for custom filter. File -> Open Raw Log to show more information.



Using the Log Inspector (The name of the game)

Debug -> View Log Panels



- **1. Stack Tree** Shows the hierarchy of executions from each class involved. If one class calls a second class, that second class is shown as a subdirectory of the hierarchy.
- 2. Execution Stack Displays a bottom-up view of the selected item in the debug log starting with the lowest level call, followed by the operation that triggered that call.
- 3. Execution Log
- **4. Source** Contents of the source log file. Indicates the line of code being run when the selected entry was generated.
- **5. Source List** Shows the context of the code being executed when the event was logged.
- **6.** Variables Shows the variables and the values assigned to them.
- 7. Execution Overview Shows stats for code being executed included heap size and execution time.

Perspective Manager - You can select your preferred perspective that only shows a few of these windows at a time.

Debug -> Save Perspective As - to save my own perspective

Debug -> Switch Perspectives.

Log Levels

Log levels control how much detail is logged for each log category. The following levels are available in the Developer Console, from the least amount of data logged (level = NONE) to the most (level = FINEST).

NONE

ERROR

WARN

INFO

DEBUG

FINE

FINER FINEST

Logging levels are cumulative. For instance, if the log level is INFO for an event, log information at the ERROR and WARN levels is also included. But if your log level is ERROR, you get only error messages. You don't get warning messages or any other log information for that log category.

The information a log level provides also depends on the log event. Different log events start logging at particular log levels. For instance, some ApexCode events start logging at INFO. If you set ERROR as the log level, you don't get any log information for those events.

To get the information you're looking for, modify the log levels for different events. You want to suppress logging when the robot saves messages about the supposed uprising to the database. So, set the log level for the Database (DB) category to NONE or ERROR.

You can set these levels by selecting **Debug | Change Log Levels**.

Select Log Levels

On the General Trace Settings for You tab, click Add/Change (1).

In the Change Debug Level window, choose the log level for each category. Remember, use log levels judiciously. If your log level is FINEST (2), your code can hit log limits and take longer to run.

Don't worry if you don't see all the levels when you update the log level for a category. Only the levels that add more logging for the category are listed.

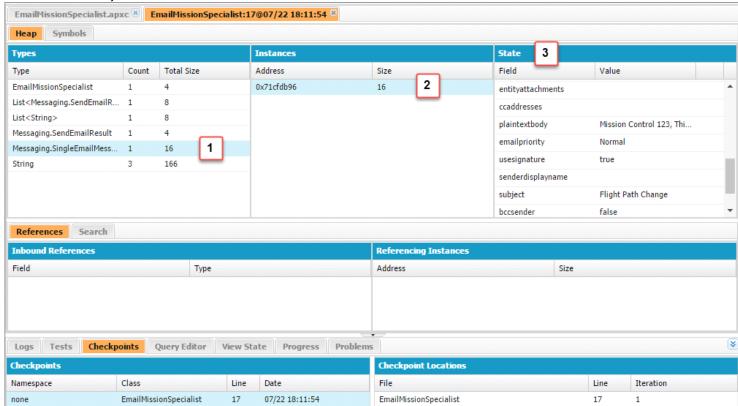
Inspect Objects at Checkpoints

You can set breakpoints in your Apex code (limit at 5), however, this option isn't available for VisualForce markup. You can only set breakpoints when your ApexCode log level is set to FINEST.

Heap

Types - Shows how many objects were instantiated and the memory they consumed in **bytes.** Instances - Shows all instances of this object type.

State - View Object's fields and their values.



Symbols

Quick way to review the states of various objects at any checkpoint. This tab displays all symbols in memory using a tree view.

Excecute SOQL and SOSL Queries