Submit Program Sequence Diagram
Team: Sizzling Syntax

User — Display → Program Page

Program Page — Submit Button → IDE

IDE — Compile Program → Sandbox

Sandbox — Execute Program → DBMS

IDE — Compile Error → Program Page

Sandbox — Runtime Error

Sandbox — Display → Program Page

Program Page — Display → User

DBMS — Verify Output

DBMS — Update Stats

DBMS — Update Leaderboard

Lifelines: User, Program Page, IDE, Sandbox, DBMS

BASIC COURSE:

The User clicks the submit button on the Program Page.

The System compiles and executes the source code.

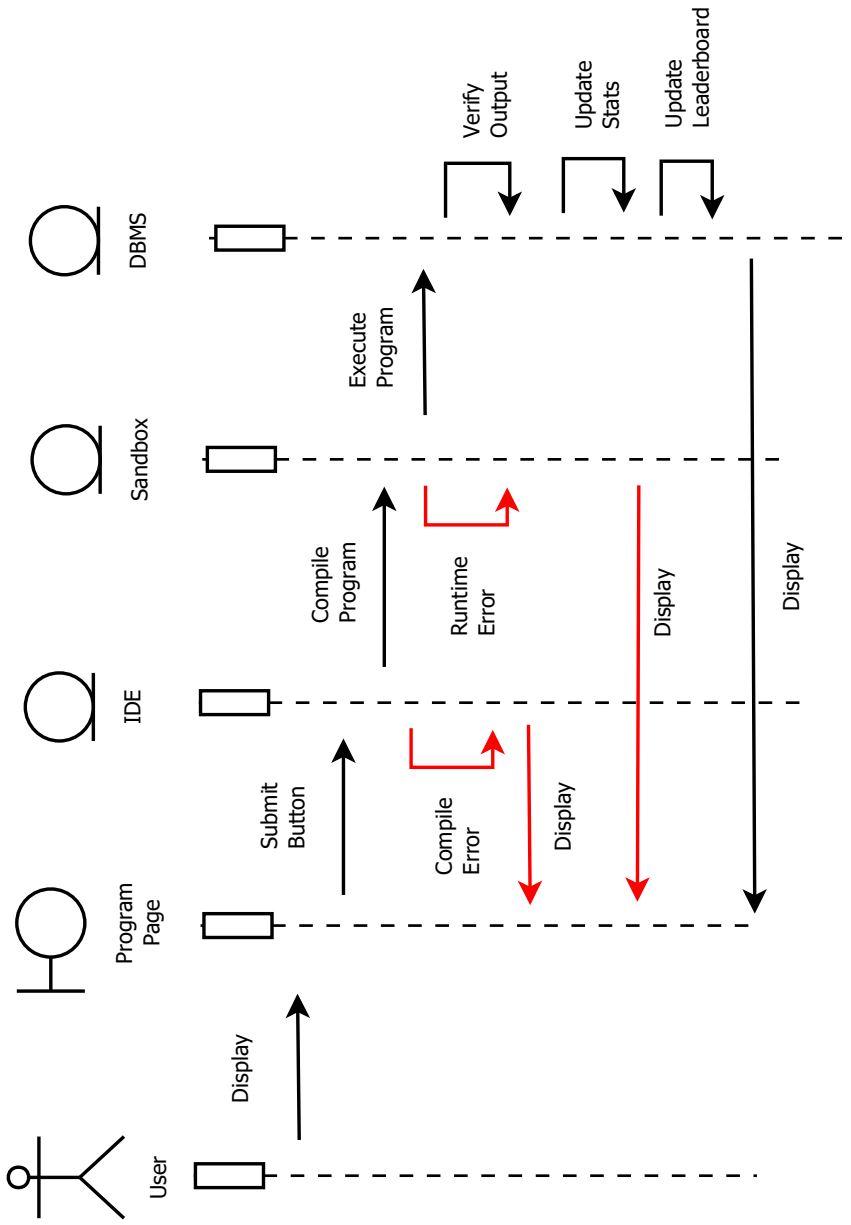The System then verifies the output with the Database Management System.

The System then updates the stats and leaderboards.

The System then displays a message to the user indicating the result of their submission.

ALTERNATE COURSES:

Compilation/Run Time Error:
The System displays a screen with the errors from the compiler and keeps the User on the page for the problem.