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

Messages: Display, Submit Button, Compile Program, Execute Program, Verify Output, Update Stats, Update Leaderboard, Compile Error, Display, Compilation Error Page, Display, Runtime Error, Display, Runtime Error Page, Display

Note:

Submit Program

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 Error: The System displays the Compilation Error Page. The System then displays the Program Page.

Runtime Error: The System displays the Runtime Error page. The system then displays the Program Page.