TECHNOVATE 2K17

IIIT
INTERNATIONAL INSTITUTE OF
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ALL BUGS MUST COME TO AN END.

BREAKING BUGS

11-12 February, 2017

technovate

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Rules :

1) A team should consist of maximum 2 members.
2) Undergraduate/Graduate students can participate in the competition.
3) In all rounds, questions have to be answered in the stipulated time.
4) Any kind of unfair means will lead to disqualification.
5) Any kind of mis-behavior with the volunteers will lead to disqualification.
6) Internet will not be provided.
7) Use of mobile phones or other electronic media will not be permitted.

Understanding Debugging:

Debugging is the method you use to determine the state of your program at any point of execution. Use debugging to help you solve problems and to test and confirm program execution.

Use a debugger to stop program execution so you can see the state of the program at a specific point. This enables you to view the values of input parameters, output parameters, and variables at the specified point. When program execution is stopped, you can review the code line-by-line to check such issues as flow of execution and data integrity.

You use Oracle's JD Edwards EnterpriseOne Event Rules Debugger to debug interactive applications, reports (batch applications), and table conversions.

Debugging Strategies:

You can use several strategies to make debugging faster and easier. Begin by observing the nature of the problem.

Is the Program Ending Unexpectedly?

If the program is ending unexpectedly, the cause is likely an unhandled exception. It is an easy problem to track down if it is happening in the same place: simply set breakpoints at strategic points throughout the code and run the program until you find the problem.

If other objects are missing, termination is more abrupt. Remember to transfer all Media Object (also called Generic Text) objects correctly. If an application has a Row exit to an application that does not exist, an unhandled exception in the program occurs immediately.

Termination of the program is more abrupt and less helpful when other kinds of objects are missing. You must review all of the pieces of your application to verify that they are all present and correctly built. A common error is to overlook media objects. If you cannot enter your program at all, a missing object is most likely the problem.

Is the Output of the Program Incorrect?

Incorrect program output typically indicates a flaw within the logic of the code. To help find the error:

- Set a breakpoint in the code prior to the point where the bad output is produced.
- Step through the ER line by line, while monitoring the values of relevant ER variables.
- At some point, a variable will probably take on an erroneous value that subsequently produces incorrect output.
- If that point occurs before your breakpoint, set another breakpoint earlier in the code and restart the application.
- Continue this process until you find the statement that is causing the wrong value to be assigned to the variable.

Where Else Could the Problem Be Coming From?

Spend some time thinking about where the source of the problem might be. If you don't know which ER event is causing an error, try to isolate it. For example, you might be able to temporarily disable the ER one event at a time to see if the error still happens. You can try to repeat the processing of a single event by doing unnatural actions in the GUI, like toggling up and down between grid rows to force the execution of the **Row Is Exited** event. There are no predefined debugging strategies that will work in any given situation. Be creative and be persistent, until you narrow down the problem to its source.

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