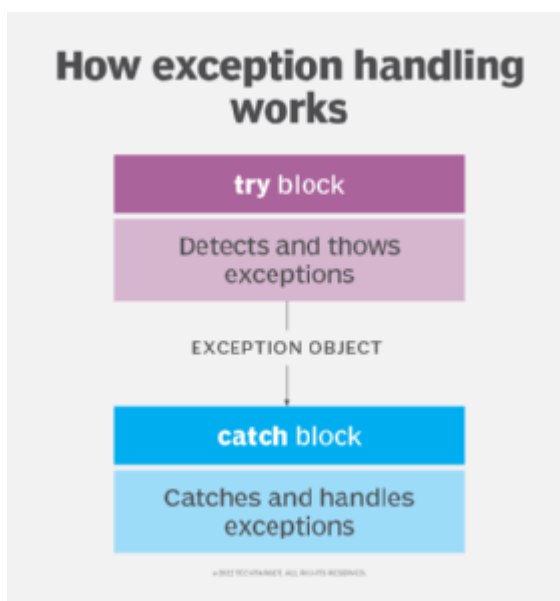


Exception Handling

TEAM ID	NM2023TMID04391
PROJECT TITTLE	BLOCKCHAIN POWERED LIBRARY MANAGEMENT

INTRODUCTION:

Exception handling is the process of responding to unwanted or unexpected events when a computer program runs. Exception handling deals with these events to avoid the program or system crashing, and without this process, exceptions would disrupt the normal operation of a program.



exception handling:

- Exception handling is the process of responding to unwanted or unexpected events when a computer program runs.
- Exception handling deals with these events to avoid the program or system crashing, and without this process, exceptions would disrupt the normal operation of a program.
- Exceptions occur for numerous reasons, including invalid user input, code errors, device failure, the loss of a network connection, insufficient memory to run an application, a memory conflict with another program, a program attempting to divide by zero or a user attempting to open files that are unavailable.
- When an exception occurs, specialized programming language constructs, interrupt hardware mechanisms or operating system interprocess communication facilities handle the exception.
- Exception handling differs from error handling in that the former involves conditions an application might

catch versus serious problems an application might want to avoid.

- In contrast, error handling helps maintain the normal flow of software program execution.

How is exception handling used:

- If a program has a lot of statements and an exception happens halfway through its execution, the statements after the exception do not execute, and the program crashes. Exception handling helps ensure this does not happen when an exception occurs.

How exception objects are caught, thrown and handled

- The try block detects and throws any found exceptions to the catch blocks, which then handles them.
- Exception handling can catch and throw exceptions. If a detecting function in a block of code cannot deal with an anomaly, the exception is thrown to a function that can handle the exception.
- A catch statement is a group of statements that handle the specific thrown exception.
- Catch parameters determine the specific type of exception that is thrown.

```
try {  
  console.log (x variable);  
} catch (err) {  
  console.log ("Error encountered: " + err);  
  console.log ("Continuing with the rest of our program...");  
}
```

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