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# Custom Exceptions

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Difference Between Common Exceptions and Custom

Exceptions

In Java, custom exceptions are classes created by the programmer to represent and handle specific error situations in a custom way during program execution.

In Java, an exception is an unusual event or error that occurs during program execution and is handled by try-catch blocks.

In Java, custom exceptions are classes created by the programmer to represent and handle specific error situations in a custom way during program execution.

# Application of Exceptions

When to apply Custom

when we need to handle specific situations that are not covered by the standard exceptions provided by the language.

when the requirements provided by the client allude to exceptional cases for its operation

## Why use custom exceptions?

By creating our own exceptions, we can define the exact behavior that we
want to occur when a particular error occurs. This helps improve code
readability and maintainability as developers can quickly identify what type
of error has occurred and how to handle it. In addition, custom exceptions
also allow us to add additional information about the error, such as specific
error messages or relevant data to make debugging easier.

# Steps to implement Custom Exceptions in Java

- Create a new class that extends the Exception class.
- Add constructors to your exception class to allow different ways to initialize it.
- Use your custom exception in the code, coupling the implementation syntax to the main code.

#### Custom Exceptions Conclusion

- Custom exceptions are a valuable technique that allows us to handle exceptional situations in a more precise and controlled way.
- By creating our own exceptions, we can improve code clarity, provide detailed error information, encourage code reuse, and make debugging easier.