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# About API In Detail

## What is an API?

1. **API stands for Application Programming Interface.**
2. It allows two applications to talk to each other.
3. APIs help developers use functions of another app or system without creating them from scratch.

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## How Does an API Work?

1. **Request:** You ask the API to do something (e.g., “Get weather info”).
2. **Processing:** The API takes your request to the system and processes it.
3. **Response:** The API sends back the result (e.g., “It’s sunny in Bangalore”).

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### Examples of APIs

1. **Google Maps API:** To show maps in your app or website.
2. **WhatsApp API:** To send messages programmatically.
3. **Payment APIs:** For adding payment options like Razorpay or PayPal.

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### Why Use an API?

1. **Saves Time:** You don’t need to write everything from scratch.
2. **Simplifies Work:** You can use ready-made features.
3. **Connects Apps:** Helps apps share data or work together.

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# About API In Detail

## Simple Analogy

- Think of an API as a **waiter in a restaurant:**
  - You (app) ask the waiter (API) for food (data).
  - The waiter gets it from the kitchen (system) and serves it to you.

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## Summary

- APIs let apps work together and share data easily.
- They save time and simplify software development.

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# About SDK In Detail

## What is an SDK?

1. **SDK stands for Software Development Kit.**
2. It is a set of tools, libraries, and files developers use to build software.
3. SDKs provide everything needed to create applications for a specific platform.

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## What Does an SDK Include?

1. **APIs:** Pre-written functions you can use.
2. **Compiler:** Converts your code into a program.
3. **Debugger:** Helps find and fix errors in your code.
4. **Documentation:** Guides to help you use the SDK.

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# About SDK In Detail

## Examples of SDKs

1. **Java SDK (JDK):** To build Java programs.
2. **Android SDK:** To create Android apps.
3. **iOS SDK:** To create iPhone apps.

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## Why Use an SDK?

1. **Saves Time:** Gives you pre-built tools to develop faster.
2. **Simplifies Work:** Everything you need to build is in one place.
3. **Easier Debugging:** Tools help you find and fix issues quickly.

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# About SDK In Detail

## Simple Analogy

- Think of an SDK as a **toolbox:**
    - It has all the tools you need to build something (app), like hammers, screws, and instructions.

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## Summary

- SDKs are toolkits that make app development faster and easier.
- They include everything you need to build applications.