How Junior Engineers Can Utilize ChatGPT

國泰世華銀行

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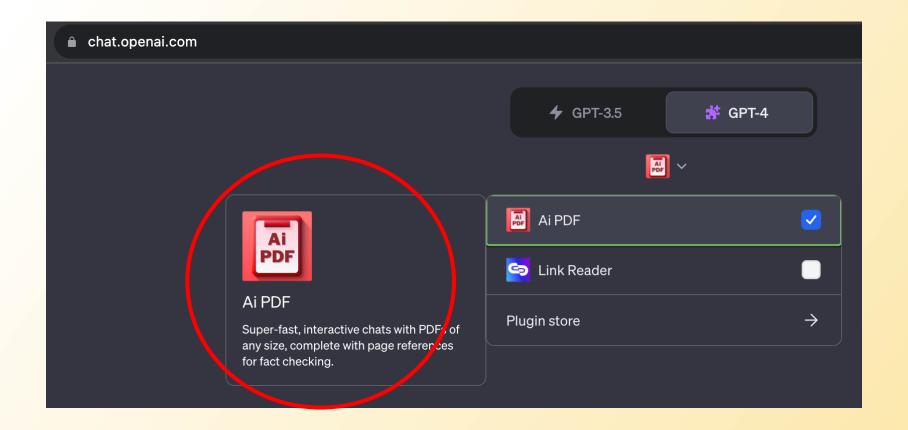
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### Introduction to ChatGPT



**#JCConf** 

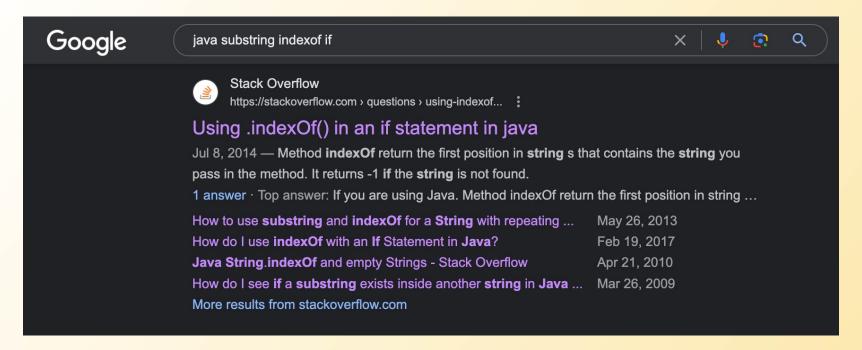
#### Ex1. Unfamiliar with Java

```
int index = stringValue.indexOf("/");
if (index > -1) {
    stringValue = stringValue.substring(0, index);
}

stringValue = stringValue.split(regex: "/")[0];
```

### Ex1. Unfamiliar with Java

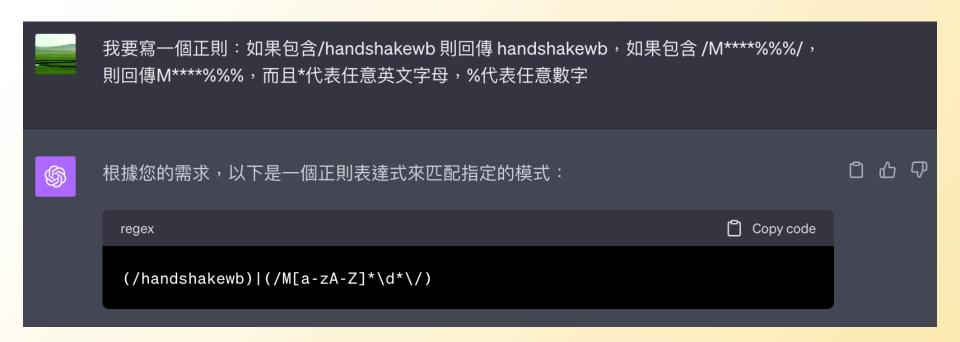
If just using Google...



## Ex1. Unfamiliar with Java



## Ex2. Regex



 $(/handshakewb)|(/M[A-Z]{4}\\d{3}/)$ 

### Ex3. Unfamiliar with JUnit

```
public class TaskInterceptorTest {
    private TaskInterceptor taskInterceptor;

    @BeforeEach
    void setUp() { taskInterceptor = new TaskInterceptor(); }

    @Test
```

## Ex3. Unfamiliar with JUnit



官方檔案哪裡有說 junit 為每個測試方法創建新的類實例



我為你找了JUnit 5的官方用戶指南。在其中,對於這個特性的描述可以在"Test Instance Lifecycle"部分找到。

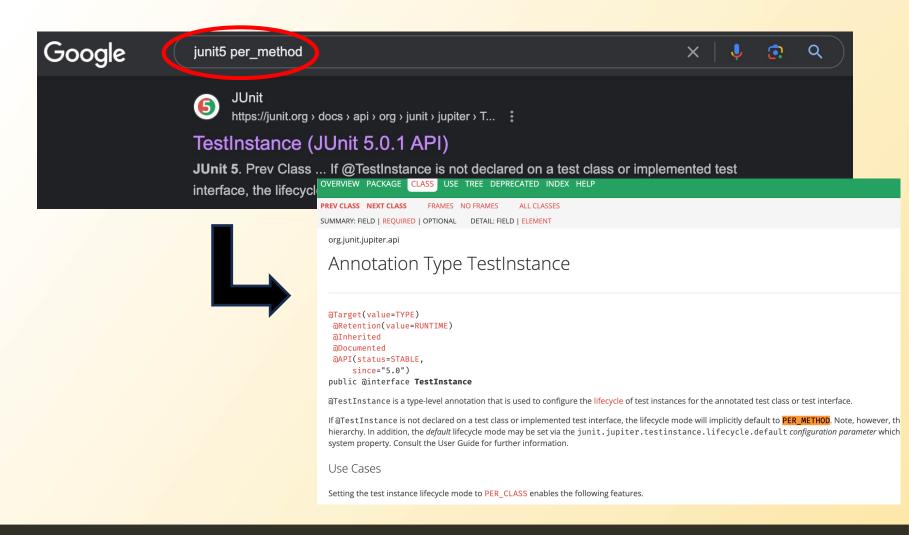


在JUnit 5中,可以選擇使用兩種不同的測試實例生命週期:

- PER\_METHOD (默認) : 默認情況下,JUnit會為每個@Test、@RepeatedTest、@ParameterizedTest、@TestFactory和@TestTemplate方法創建新的測試實例。這與JUnit 4 的行為相符,可以確保測試之間的完全隔離。
- 2. **PER\_CLASS**: 當測試類使用@TestInstance(Lifecycle.PER\_CLASS)註解時,JUnit會為整個 測試類創建一個測試實例。這允許你在多個測試方法之間共享測試實例的狀態。此選項可用 於某些特定的情境,例如當使用`@BeforeAll`或`@AfterAll`方法時不想使用靜態方法。

在JUnit 5的官方用戶指南中,對於這個特性有詳細的說明。你可以查看該部分以獲得更多關於測試實例生命週期的資訊。

## Ex3. Unfamiliar with JUnit



## Ex4. Improve Coding Style

- Found the bank name in the local cache.
- If not found in the local cache, checking the API response.

```
BankB0 bankB0 = localCacheBankMap.get(response.getBankId());
if (bankB0 == null) {
    bankName = response.getBankName();
} else {
    bankName = bankB0.getBankName();
}
```

# Ex4. Improve Coding Style

```
BankBO bankBO = localCacheBankMap.get(response.getBankId());
   if (bankBO == null) {
     bankName = response.getBankName();
   } else {
     bankName = bankBO.getBankName();
use Optional?
                                                                                     白山口
Certainly! You can use Java 8's `Optional` to make the code more concise and readable.
Here's how you can rewrite the provided code using `Optional`:
                                                                       Copy code
  java
  BankBO bankBO = localCacheBankMap.get(response.getBankId());
  bankName = Optional.ofNullable(bankBO)
                       .map(BankB0::getBankName)
                       .orElse(response.getBankName());
```

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## Ex4. Improve Coding Style

Another map for checking localCacheBankMap



```
// BankB0 bankB0 = localCacheBankMap.get(response.getBankId());
bankName = Optional.ofNullable(localCacheBankMap) Optional<Map<String, Ten
.map(bankMap -> localCacheBankMap.get(response.getBankId()))
.map(BankB0::getBankName) Optional<String>
.orElse(response.getBankName());
```

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### Summarize

- Converting Communication to Code
- Document Analysis for Keywords
- Quicker way to get the answer