

# Sample prompt for creating source code documentation.

This source code documentation prompt template focuses on building and implementing high-quality prompts to support efficient documentation.

In software development, source code documentation is just as important as the code itself. A well-built system lacking clear documentation will hinder maintenance, expansion, and collaboration among team members. However, documentation is often overlooked due to its time-consuming nature and potential for inconsistency.

The emergence of artificial intelligence has opened up a more efficient approach: using prompts to automate and standardize the code documentation process. Through well-designed prompt templates, programmers can quickly create detailed descriptions of functionality, system structure, processing flow, and API usage while ensuring clarity and consistency.

The source code documentation prompt template focuses on building and implementing high-quality prompts to support the documentation process effectively. This is not only a time-saving solution but also contributes to improving the quality of software products, helping development teams work more efficiently and sustainably.

## Sample prompt for creating source code documentation.

```
T?o tài li?u toàn di?n cho: [D?N CODE HO?C HÀM] Bao g?m: - Mô t? hàm/l?  
p - Tài li?u tham s? - Tài li?u giá tr? tr? v? - Ví d? s? d?ng - Các tr??  
ng h?p ngo?i l? và x? lý l?i - ?? ph?c t?p v? th?i gian/không gian ??nh d?  
ng: [JSDoc / Docstring / Chú thích XML]
```

**Best suited for: Claude 4 Sonnet, GPT-5**

### Instructions for using the sample prompt.

1. Replace [PASTE CODE OR FUNCTION] with the code you want to use to create a reference.
2. Select the format as XML Annotations.

### The example prompt is a sample execution using GPT-5.

```
T?o tài li?u toàn di?  
n cho: # services/order_service.py from typing import List from myapp.models imp
```

? lý logic liên quan ??n ??

```
n hàng "" def create_order(self, user, items: List[dict]) -> Order: "" T
o ??n hàng m?i :param user: User object :param items: List dict g?
m product_id và quantity :return: Order "" order = Order.objects.create(user=us
?m: - Mô t? hàm/l?p - Tài li?u tham s? - Tài li?u giá tr? tr? v? - Ví d? s?
d?ng - Các tr??ng h?p ngo?i l? và x? lý l?i - ?? ph?c t?p v? th?
i gian/không gian ??nh d?ng: Chú thích XML
```

Below is the detailed XML document for the OrderService as requested:

```
Module cung c?p service x? lý logic liên quan ??n ??n hàng trong h? th?
ng. Bao g?m vi?c t?o ??n hàng, ki?m tra t?n kho, và tính toán t?ng giá tr?
??n hàng. Service ch?u trách nhi?m x? lý các nghi?p v? liên quan ??n ??
n hàng. Tách bi?t logic kh?i view/controller ?? t?ng kh? n?ng b?
o trì và tái s? d?ng. T?o m?t ??n hàng m?i cho ng??i dùng d?
a trên danh sách s?n ph?m. Th?c hi?n ki?m tra t?n kho, c?p nh?t s? l??ng s?
n ph?m, và tính t?ng giá tr? ??n hàng. ??i t??ng ng??i dùng t?o ??
n hàng. Danh sách các s?n ph?m c?n ??t hàng. M?i ph?n t? là m?
t dictionary có c?u trúc: { "product_id": int, "quantity": int } ??i t??
ng Order ?ã ???c t?o, bao g?m các OrderItem liên quan và t?ng giá tr? ??
n hàng. T?o Order v?i tr?ng thái ban ??u là "PENDING" Kh?i t?o t?ng giá tr?
??n hàng = 0 Duy?t qua t?ng item trong danh sách L?y thông tin Product t?
database Ki?m tra t?n kho N?u ?? hàng: Gi?m s? l??ng t?n kho L?u Product T
?o OrderItem C?ng d?n total_price C?p nh?t total_price cho Order L?
u Order Tr? v? Order X?y ra khi product_id không t?n t?i trong h? th?ng. X?
y ra khi s? l??ng yêu c?u v??t quá t?n kho ("Not enough stock"). X?
y ra khi thi?u key "product_id" ho?c "quantity" trong item. Có th? x?
y ra khi thao tác v?i database th?t b?i. Hi?n t?i hàm không x?
lý exception n?i b? mà ?? propagate ra ngoài. Khuy?n ngh?: S? d?
ng transaction.atomic() ?? ??m b?o tính toàn v?n d? li?u B?
t và log exception t?i t?ng higher-level (view/service layer)
from services.order_service import OrderService service = OrderService() order :
O(n) v?i n là s? l??ng items trong ??n hàng. Tuy nhiên, do m?i l?n l?
p có truy v?n database (Product.objects.get), nên th?c t?
là O(n) queries (có th? t?i ?u b?ng bulk query). O(1) (không tính b? nh?
database). B? nh? s? d?ng không t?ng ?áng k? theo input. Có th? x?
y ra race condition khi nhi?u request cùng c?p nh?t stock. Nên s? d?
ng select_for_update() ho?c locking. Nên t?i ?u b?ng cách preload products
?? tránh N+1 query problem. Nên validate input tr??c khi x?
lý (quantity > 0).
```

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