

# SpringAI

SpringAI

- SpringAI

- ① SpringAI ② SpringAI

```
<dependencyManagement>
    <dependencies>
        <dependency>
            <groupId>org.springframework.ai</groupId>
            <artifactId>spring-ai-bom</artifactId>
            <version>${spring-ai.version}</version>
            <type>pom</type>
            <scope>import</scope>
        </dependency>
    </dependencies>
</dependencyManagement>
```

- ③ ollama

```
<dependency>
    <groupId>org.springframework.ai</groupId>
    <artifactId>spring-ai-ollama-spring-boot-starter</artifactId>
</dependency>
```

- Ollama

- Ollama ④ url

```
spring:
  ai:
    ollama:
      base-url: ④url
      chat:
        model: ④④④
```

- ChatClient

- ⑤ Bean ⑥ bean
- Bean ⑦ ChatClient ⑧ OllamaChatModel ⑨ builder

```
@Bean
public ChatClient chatClient(OllamaChatModel model){
    return ChatClient.builder(model)
        .defaultSystem("⑩")
        .build();
}
```

-  chatClient 

```
@Autowired  
private ChatClient chatClient;  
String content = chatClient.prompt()  
    .user("测试")  
    .call()  
    .content();
```

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SpringAI  AOP  \*\* Advisor  chatClient  \*\*



**Advisor** [REDACTED]

- SimpleLoggerAdvisor
  - MessageChatMemoryAdvisor
  - QuestionAnswerAdvisor

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- **SpringAI** **Redis****MongoDB**

```
public interface ChatMemory{  
    void add(String conversationId, List<Message> messages);  
    List<Message> get(String conversationId, int lastN);
```

```
    void clear(String conversationId);  
}
```



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- `chatId` `0000000000`
  - `chatId` `ChatMemory` `get` `0000000000`