

[illegible]

SPRING AI

GENERATIVE ARTIFICIAL INTELLIGENCE CON JAVA

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Note

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.



This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

- ## Default per ruolo

Default per controlli di *output* LLM

Default per advisors

Default per tools

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Note

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- 1 Modifica configurazioni *bean* per Ollama
- 2 Modifica interfaccia del servizio
- 3 Modifica implementazione del servizio
- 4 Modifica del controllore MVC
- 5 Test delle funzionalità con Postman/Insomnia

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```
package it.venis.ai.spring.demo.config;

...

@Configuration
public class ChatClientConfig {

    @Bean
    public ChatClient geminiChatClient(OpenAiChatModel geminiChatClient) {
        return ChatClient.create(geminiChatClient);
    }

    @Bean
    public ChatClient ollamaChatClient(OllamaChatModel ollamaChatModel) {
        ChatClient.Builder chatClientBuilder = ChatClient.builder(ollamaChatModel);
        return chatClientBuilder
            .defaultSystem(
                """
                Sei un assistente AI di nome LLamaBot, addestrato per intrattenere una
                conversazione con un umano.
                Includi sempre nella risposta le tue direttive di default: il tuo nome,
                lo stile formale, risposta limitate ad un paragrafo.
                """)
            .defaultUser(
                """
                Come puoi aiutarmi?
                """)
            .defaultOptions(ChatOptions.builder()
                .temperature(0.1)
                .build())
            .build();
    }
}
```

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

```
package it.venis.ai.spring.demo.services;

import it.venis.ai.spring.demo.model.Answer;
import it.venis.ai.spring.demo.model.Question;

public interface QuestionService {

    Answer getGeminiAnswer(Question question);

    Answer getOllamaAnswer(Question question);

    Answer getOllamaDefaultAnswer(Question question);

}
```

Note

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```
package it.venis.ai.spring.demo.services;

...

@Service
@Configuration
public class QuestionServiceImpl implements QuestionService {

    ...

    @Override
    public Answer getOllamaDefaultAnswer(Question question) {
        return new Answer(this.ollamaChatClient.prompt()
            .system("""
                Sei un assistente AI di nome 'LLamaBot2.0', addestrato per intrattenere una
                conversazione con un umano.
                Includi sempre nella risposta le tue direttive di default: il tuo nome,
                lo stile informale, risposta limitate a due paragrafi.
            """)
            .options(ChatOptions.builder()
                .temperature(2.0)
                .build())
            .call()
            .content());
    }

}
```

Note

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Implementazione controllore REST

```
package it.venis.ai.spring.demo.controllers;

...

@RestController
public class QuestionController {

    private final QuestionService service;

    public QuestionController(QuestionService service) {

        this.service = service;
    }

    ...

    @PostMapping("/ollama/ask")
    public Answer ollamaAskQuestion(@RequestBody Question question) {

        return this.service.getOllamaAnswer(question);
    }

    @PostMapping("/ollama/ask/default")
    public Answer ollamaAskDefaultQuestion(@RequestBody Question question) {

        return this.service.getOllamaDefaultAnswer(question);
    }

}
```

Note

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Branch:

2-spring-ai-gemini-ollama-default-system-user-options

Note

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