



ICT Training Center

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Note

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SPRING AI

GENERATIVE ARTIFICIAL INTELLIGENCE CON JAVA

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Corso avanzato per Venis S.p.A, Venezia, Italia

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DEFAULTS

Note

[illegible]

- ### Default per ruolo

Default per controlli di output LLM

Default per advisors

Default per tools

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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

[illegible]

```
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();
    }
}
```

Note

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```
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);

}
```

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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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```
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);
    }

}
```

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Branch:

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

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