

[illegible]

SPRING AI

GENERATIVE ARTIFICIAL INTELLIGENCE CON JAVA

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

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Note

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



JSON USER PROMPT TEMPLATES

Note

[illegible]

-  Simone Scannapieco

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File get-json-user-format-definition-prompt.st

Il JSON deve avere la seguente struttura:

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

public interface GeminiFromClientService {

    String getAnswerFromClient(String question);

    Answer getAnswerFromClient(Question question);

    Answer getDefinitionFromClient(DefinitionRequest definitionRequest);

    Answer getCustomFormatDefinitionFromClient(DefinitionRequest definitionRequest);

    Answer getJSONUserFormatDefinitionFromClient(DefinitionRequest definitionRequest);

}
```

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.

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

import java.util.Map;
import org.springframework.ai.chat.client.ChatClient;
import org.springframework.ai.template.st.StTemplateRenderer;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.core.io.Resource;
import org.springframework.stereotype.Service;
import it.venis.ai.spring.demo.model.Answer;
import it.venis.ai.spring.demo.model.DefinitionRequest;
import it.venis.ai.spring.demo.model.Question;

@Service
public class GeminiFromClientServiceImpl implements GeminiFromClientService {

    private final ChatClient chatClient;

    public GeminiFromClientServiceImpl(ChatClient.Builder chatClientBuilder) {
        this.chatClient = chatClientBuilder.build();
    }

    @Override
    public String getAnswerFromClient(String question) {
        return this.chatClient.prompt()
            .user(question)
            .call()
            .content();
    }
}
```

Note

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```
...
@Value("classpath:templates/get-json-user-format-definition-prompt.st")
private Resource JSONUserFormatDefinitionPrompt;

@Autowired
ObjectMapper objectMapper;

@Override
public Answer getJSONUserFormatDefinitionFromClient(DefinitionRequest definitionRequest) {
    String chatResponse = this.chatClient.prompt()
        .user(u -> u.text(this.JSONUserFormatDefinitionPrompt)
            .params(Map.of("lemma", definitionRequest.lemma())))
        .templateRenderer(StTemplateRenderer.builder().startDelimiterToken('<')
            .endDelimiterToken('>')
            .build())
        .call()
        .content();
    System.out.println(chatResponse);
    String responseString;
    try {
        JsonNode rootNode = objectMapper.readTree(chatResponse.replace("`", "").replaceFirst("json", ""));
        responseString = objectMapper.writeValueAsString(rootNode);
    } catch (JsonProcessingException e) {
        throw new RuntimeException(e);
    }
    return new Answer(responseString);
}
}
```

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

import org.springframework.web.bind.annotation.RestController;
...
import it.venis.ai.spring.demo.services.GeminiFromClientService;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;

@RestController
public class QuestionFromClientController {

    private final GeminiFromClientService geminiService;

    ...

    @PostMapping("/client/definition")
    public Answer getDefinitionFromClient(@RequestBody DefinitionRequest definitionRequest) {
        return this.geminiService.getDefinitionFromClient(definitionRequest);
    }

    @PostMapping("/client/definition/custom")
    public Answer getCustomFormatDefinition(@RequestBody DefinitionRequest definitionRequest) {
        return this.geminiService.getCustomFormatDefinitionFromClient(definitionRequest);
    }

    @PostMapping("/client/definition/json/user")
    public Answer getJSONUserFormatDefinition(@RequestBody DefinitionRequest definitionRequest) {

        return this.geminiService.getJSONUserFormatDefinitionFromClient(definitionRequest);
    }
}
```

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Branch:

Note