



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 no margins, text, or other markings on the paper.

SPRING AI

GENERATIVE ARTIFICIAL INTELLIGENCE CON JAVA

Simone Scannapieco

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

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Note

[illegible]



PROMPT TEMPLATES

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, providing a template for handwriting practice. There are no margins, text, or other markings on the paper.

-  Simone Scannapieco

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File resources/templates/get-definition-prompt.st

File Modello di richiesta definizione

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

public record DefinitionRequest(String lemma) {}
```

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 GeminiService {

    String getAnswer(String question);

    Answer getAnswer(Question question);

    Answer getDefinition(DefinitionRequest definitionRequest);

}
```

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

import java.util.Map;
import org.springframework.ai.chat.model.ChatModel;
import org.springframework.ai.chat.model.ChatResponse;
import org.springframework.ai.chat.prompt.Prompt;
import org.springframework.ai.chat.prompt.PromptTemplate;
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 GeminiServiceImpl implements GeminiService {

    ...

    @Value("classpath:templates/get-definition-prompt.st")
    private Resource definitionPrompt;

    @Override
    public Answer getDefinition(DefinitionRequest definitionRequest) {
        PromptTemplate promptTemplate = new PromptTemplate(definitionPrompt);
        Prompt prompt = promptTemplate.create(Map.of("lemma", definitionRequest.lemma()));
        ChatResponse response = chatModel.call(prompt);
        return new Answer(response.getResult().getOutput().getText());
    }
}
```

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

import it.venis.ai.spring.demo.model.Answer;
import it.venis.ai.spring.demo.model.DefinitionRequest;
import it.venis.ai.spring.demo.model.Question;
import it.venis.ai.spring.demo.services.GeminiService;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;

@RestController
public class QuestionController {

    private final GeminiService geminiService;

    public QuestionController(GeminiService geminiService) {
        this.geminiService = geminiService;
    }

    @PostMapping("/ask")
    public Answer askQuestion(@RequestBody Question question) {
        return geminiService.getAnswer(question);
    }

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

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.

Branch: 6-spring-ai-gemini-prompt-templates

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