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Note

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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

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CREAZIONE SERVIZIO PER GEMINI

Note

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.

- 1 Creazione interfaccia ed implementazione del servizio Gemini
- 2 Configurazione aggiuntiva `application.yml`
- 3 *Setup* ambiente JUnit
- 4 Esecuzione del *test* di connettività a Gemini

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.

Interfaccia servizio Gemini

```

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

public interface GeminiService {
    String getAnswer(String question);
}

```

Note

Note area with horizontal lines for writing.

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

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.stereotype.Service;

@Service
public class GeminiServiceImpl implements GeminiService {

    private final ChatModel chatModel;

    public GeminiServiceImpl(ChatModel chatModel) {
        this.chatModel = chatModel;
    }

    public String getAnswer(String question) {
        PromptTemplate promptTemplate = new PromptTemplate(question);
        Prompt prompt = promptTemplate.create();
        ChatResponse response = chatModel.call(prompt);
        return response.getResult().getOutput().getText();
    }
}
```

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Modifiche alle proprietà del progetto

```

spring:
  application:
    name: demo
  ai:
    openai:
      api-key: ${GOOGLE_AI_API_KEY}
      base-url: https://generativelanguage.googleapis.com/v1beta/openai
      chat:
        completions-path: /chat/completions
        options:
          model: gemini-2.0-flash-lite

```

Note

Note area with horizontal lines for writing.

```
{
  "java.compile.nullAnalysis.mode": "disabled",
  "java.configuration.updateBuildConfiguration": "interactive",
  "java.test.config": {
    "env": {
      "GOOGLE_AI_API_KEY": "..."
    }
  }
}
```

Note

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- ## Implementazione *test* Gemini

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Branch: 2-spring-ai-gemini-service

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