PoC Title:

**MEETING SUMMARY GENERATOR USING JAVA, COPILOT AND NLP**

**Problem Statement:**

In modern enterprises, employees often spend hours attending and documenting meetings. Manual note taking can lead to missed details, poor tracking of action items, and unstructured follow-up. There is a need for an automatedsolution that can process meeting transcripts and:

* Generate concise summaries
* Identify action items
* Provide a REST-based interface for easy integration

**Objective:**

To build a backend system using Java + Spring Boot that:

* Accepts meeting transcripts (as plain text)
* Uses Java-based NLP logic to generate summaries and extract action items
* Exposes the functionality through RESTful APIs
* Demonstrates productivity acceleration using GitHub Copilot

**Tech Stack:**

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| --- | --- |
| Backend: | Java, Spring Boot |
| IDE: | IntelliJ |
| Text Parsing: | Java String APIs, Break Iterator |
| API Testing: | Postman |
| Code Assist: | GitHub Copilot |

**PoC Scope:**

This PoC will demonstrate:

1. A working Spring Boot REST API
2. Uploading and processing plain-text meeting transcripts
3. Basic NLP logic (using Java utilities) to:
   * Split text into sentences
   * Extract key phrases like “action item”, “decided”, “assigned”
   * Return a structured summary and list of action items
4. Code snippets assisted by GitHub Copilot to demonstrate productivity gains

**GitHub Copilot Use Cases:**

1. Generating boilerplate code for Controller, Service and DTOs
2. Suggesting logic for:
   * Sentence splitting
   * Keyword filtering
   * String handling & cleanup
3. Writing test cases and sample data classes

**Sample Input:**

Good morning everyone. Today we’ll be discussing the roadmap for the Q3 product release. The UI/UX team has reported that the current design needs minor adjustments, particularly on the payment screen and onboarding flow.

Marketing suggested launching the campaign one week earlier to catch the end of the back-to-school season. Action Item: Sarah will finalize the updated launch plan by next Monday. Raj mentioned that the backend integration with the payment gateway is 75% complete. He expects to finish it by this Friday.

Action Item: QA team needs to begin smoke testing on staging environment by Wednesday. The mobile app team has requested clarity on the caching mechanism for profile data — John will schedule a follow-up meeting with them.

We also need to upgrade the analytics library to the latest version before release. Action Item: Arjun will evaluate the compatibility of the new library by Thursday. Lastly, please remember the company-wide hackathon next weekend. Let's encourage all teams to participate actively.

**Expected Output:**

Summary:

The Q3 product release was discussed, including UI/UX improvements and marketing timeline adjustments. The payment gateway integration is nearing completion. QA will begin smoke testing, and a follow-up meeting will clarify mobile app caching. Arjun will assess analytics library compatibility. Teams were reminded about the upcoming hackathon.

Action Items:

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"Sarah will finalize the updated launch plan by next Monday",

"QA team needs to begin smoke testing on staging environment by Wednesday",

"John will schedule a follow-up meeting with the mobile app team",

"Arjun will evaluate the compatibility of the new analytics library by Thursday"

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**Summary of PoC:**

This PoC provides a backend microservice for automating the creation of meeting summaries and action items using built-in Java NLP logic. It also demonstrates the developer productivity advantages of GitHub Copilot for writing code faster and smarter.