

# AIDD 30 Days Challenge Task: 4

## MCP Server:

MCP (Model Context Protocol) is a tool which we will be using to give our CLI Agent more context (information/data).

A practical example, Gemini CLI can't build agents so, for solving this problem we will be providing the OpenAI Agent SDK docs to Gemini by connecting MCP Server with our CLI. It basically provides tools to our CLI.

### Advantages:

- Using MCP Server we can make our CLI more efficient because it provides the data with the CLI don't have as a built-in like OpenAI Agents SDK.
- It can be added through few easy steps (We'll see below).
- There are multiple tools that we can get through MCP Server and we can make our development smooth.
- It helps the beginner that they don't have to write a complete backend for this they can just connect the MCP Server.

## Context 7:

To solve the above mentioned problems we have a tool **Context 7**.

Context 7 has more than **54,000+ tools** which we can connect with our CLI Agent.

Its a single MCP Server contains docs of Python, OpenAI Agents SDK, Vercel/Nextjs and many more. And the best part is that the docs also auto-updates.

The screenshot shows the Context 7 MCP Server dashboard. At the top, there's a navigation bar with a logo, the text "Context7", and links for "Personal" (with a dropdown arrow), "Dashboard", "Plans", "Learn", "Try Live", "Install", and a green button "+ Add Docs". Below the navigation, the text "Up-to-date Docs for LLMs and AI code editors" is displayed in green. A sub-section below it says "Copy latest docs & code — paste into Cursor, Claude, or other LLMs". At the bottom, there are two input fields: "Search a library (e.g. Next, React)" and "Chat with Docs", separated by the word "or".

## Task: 4

### Connecting Context7 MCP Server to Gemini CLI

I have successfully connected the MCP Server with my Gemini CLI.

```
> /mcp

Configured MCP servers:

[+] context7 - Ready (2 tools)
Tools:
- get-library-docs
- resolve-library-id

Using: 1 MCP server

> [ ] Type your message or @path/to/file

F:\AIDD\project-1
```

## Practical Task - PDF Summarizer & Quiz Generator

Tech Stack:

- OpenAI Agents SDK
- Streamlit
- PyPDF
- Gemini CLI
- Context 7 (MCP Server / Tool Provider)

App Link: <https://pdf-summarizer-quiz-generator-gemini.streamlit.app>

How it works:

- Open the Link:

## PDF Summarizer & Quiz Generator

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Select Quiz Type  
mcq

Create Quiz

- Add any PDF file from your device:

## PDF Summarizer & Quiz Generator

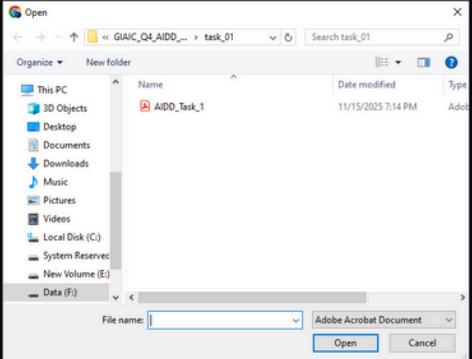
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- Now click on Generate Summary:

## PDF Summarizer & Quiz Generator

PDF processed. Ready to summarize or generate a quiz.

PDF processed. Ready to summarize or generate a quiz.

**Summary:** AIDD (AI-Driven Development) represents a new era in software development, shifting from traditional manual coding to a partnership with AI. Unlike the traditional approach where developers write all syntax, AIDD involves developers defining product architecture through specifications, while AI CLI agents (such as Claude, Codex, Gemini, or Qwen) then implement, validate, and debug the code.

Key advantages of AIDD include significantly faster development cycles (weeks reduced to days), consistent code quality, and the AI partner handling the identification and fixing of bugs. The text emphasizes AIDD as a crucial skill for modern developers, promising a 10x boost in productivity by leveraging AI as an intelligent partner.

- After the summary is generated click on the Create Quiz button (MCQs/Mixed):

### AIDD (AI-Driven Development) Quiz

- What does the acronym AIDD primarily represent in the context of the provided text? a) AI-Integrated Data Design b) AI-Driven Development  c) Automated Interface Design and Deployment d) Adaptive Intelligence for Data Discovery
- How does traditional coding differ from AIDD concerning the role of the developer? a) In traditional coding, the developer uses an AI partner, while in AIDD, they work alone. b) In traditional coding, the developer writes code and owns all details as the sole coder. In AIDD, an AI is a partner.  c) Traditional coding involves building architecture specifications, while AIDD involves writing syntax. d) Traditional coding focuses on validation, while AIDD focuses on execution.
- What is the developer's primary task when practicing AIDD, as described in the text? a) Writing extensive lines of syntax for the entire product. b) Building the architecture of the product in the form of specifications.  c) Manually finding and fixing all bugs in the code. d) Executing the code developed by the AI partner.
- In AIDD, what crucial roles does the AI partner perform after the developer provides specifications? a) Only writes the initial syntax. b) Implements the specifications and validates the result.  c) Designs the entire product architecture from scratch. d) Replaces the developer entirely.
- Which of the following is NOT listed as an advantage of AIDD in the provided text? a) Faster development time (weeks to days). b) Consistent code quality. c) Elimination of the need for developers.  d) AI partner handles bug finding and fixing.
- According to the text, what improvement does AIDD bring regarding development time? a) It extends development time to ensure higher quality. b) A process that takes weeks can now be achieved in a few days.  c) It makes development time unpredictable. d) Development time remains the same, but quality improves.
- What is an advantage of AIDD concerning code quality? a) Code quality varies depending on the developer's skill. b) The quality of code becomes consistent due to AI usage.  c) Code quality is often lower as AI introduces errors. d) Code quality is only assessed after manual review.
- What is highlighted as the AI partner's responsibility regarding bugs in AIDD? a) The AI partner introduces new bugs for the developer to fix. b) The AI partner only reports bugs without fixing them. c) The AI partner figures out bugs and fixes them right after they occur.  d) Bug finding remains solely the developer's responsibility.
- Which of the following are mentioned as examples of paid AI CLI agents for AIDD? a) Gemini and Qwen b) Claude and Codex  c) Anthropic and Google d) Ali Baba and OpenAI
- Which of the following are mentioned as examples of free AI CLI agents for AIDD? a) Claude and Codex b) Gemini and Qwen  c) Anthropic and OpenAI d) Google and Ali Baba

## Here is how the app works.

As the deadlines was extended so I revised the whole project from the scratch.

## By the End of this Assignment:

By the end of this assignment I really learned how to use CLI for development. The correct way of writing Specification. It was a very good assignment did a hands-on practice of AIDD.