AI-Driven Development—30-Day Challenge Task 4

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Context7

- **What is Context7?**
    - Context7 is a tool that provides **up-to-date and version-specific documentation and code examples** to **LLMs (Large Language Models)** and AI code editors.
- **What is its Basic Purpose?**
    - Its primary goal is to prevent AI coding assistants from relying on old training data or generating **hallucinations**, ensuring they provide accurate and relevant information. It integrates with **Model Context Protocol (MCP)** servers.

Model Context Protocol (MCP)

- **What is MCP?**
    - MCP stands for **Model Context Protocol**. It is an **open standard** designed to connect AI agents (like LLMs) to **external tools, data sources, and systems**.
- **What is its Basic Purpose and What is it Used For?**
    - Its main purpose is to **extend the capabilities** of AI agents so they can perform **real-world actions** and access **current information**, rather than just relying on their training data. This increases the AI's **utility** and **automation** and reduces inaccuracies. It provides a **standardized, two-way connection**.
- **How Many Tools Does MCP Have?**
    - MCP itself is a **protocol** that allows tools to be exposed. The **number of tools is potentially infinite** and depends on how many servers and developers build **new tools** using this protocol. (For example, Context7 is itself an MCP tool server.)
- **What are the 2 Basic Libraries of the MCP list?**
    - Instead of "MCP list," you likely mean prominent **MCP servers** that expose different **libraries or services**. There are many in the MCP directory, but two important examples are:

1. **Context7:** For up-to-date code documentation.
2. **Filesystem/Redis:** For reading/writing files or accessing databases. (If your question was aimed at development libraries, **TypeScript (TS)** and **JavaScript (JS)** play key roles in developing MCP servers and clients.)

Gemini CLI

- **What is the Gemini CLI Command?**
  - The basic command to run the Gemini CLI (Command Line Interface) is: gemini.
  - To get help: gemini --help
  - The basic format to send a prompt is: gemini -p "Your question" or gemini --prompt "Your question"
  - The Gemini CLI agent mode also includes internal commands like: /tools and /mcp.
- **Which Folders are Important in the Gemini CLI?**
  - The most important folders are those that store **Context Files** or **Custom Commands**:
    1. ~/.gemini/: This stores your **global configuration** (settings.json and the user-global GEMINI.md context file) in your home directory.
    2. GEMINI.md (File): This file can be in the current project folder or any ancestor folder. It provides **project-specific instructions** that the CLI includes in all model sessions.