AI-Driven Development - 30-Day Challenge Task-7

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Spec Kit Plus:

GitHub released a product called **Spec Kit**. This is a tool that helps developers plan the stages that lead to building a product. **Spec Kit Plus** is an updated version of Spec Kit, made on top of GitHub's open-source product. Spec Kit Plus is also open source, and it is an upgraded toolkit that helps developers not to vibe code.

Vibe coders are developers who start writing code without fully understanding the problem, making a plan, dividing tasks, writing test cases, and then starting the actual implementation. Spec Kit Plus solves this problem because it helps developers create all these things using AI and makes better use of AI to build products in a proper and efficient way.

These are the 5 main components of Spec Kit Plus:

1. /constitution
2. /specify
3. /plan
4. /tasks
5. /implement

/constitution:

We know that the word constitution means rules, principles, and laws. The same meaning applies to **/constitution** in Spec Kit Plus. This section explains the rules or principles that a developer or AI should follow when building a product or software. For example, writing clean code, using a test-driven approach (testing each feature before adding it so the product doesn't break and new features can be added easily), using modern techniques, and keeping security in mind.

/specify:

This is the second section of the Spec Driven Development approach. **/specify** helps developers first gather and understand the problem, and then clearly explain what the product is about in simple and clear details.

For example, if we have a product called Shopping Assistant, we will first specify that this assistant will help the user in shopping, finding discounts, showing items based on the user's interests, checking trendy clothes, and similar helpful features.

/plan:

In this section, the planning of the project is done. It explains which frameworks to use, how the features will be built, and which features or modules will be created first. We break the project into small modules and plan the order in which each module will be made.

For example, in the case of the Shopping Assistant, we will plan which tools and frameworks to use, such as VS Code for the code editor, Oracle or another database for the backend, Next.js for the frontend, FastAPI for API calls, and the OpenAI Agents SDK for building agents. Then we will plan the steps, like first building the frontend page, then creating the backend, then connecting them using FastAPI, and finally integrating the AI agents.

/tasks:

This is the second last step of Spec Kit Plus. In this section, we divide the tasks into categories like which person will do which task. The same idea is used with AI, instead of one AI doing everything the tasks are shared between multiple AIs based on what each one is good at. This way, the burden is not placed on one person, and in the case of AI, it reduces hallucination and makes the work more professional and organize.

/implement:

This is the main part of the Spec Kit Driven Development approach. In this section we build the project write code, test it, and debug it. We follow the earlier documentation and plans so the product is built correctly, works well and does not crash.