

🌐 AI-Driven Development – 30-Day Challenge

📌 Task 7 – SPECKit Plus (Official Submission)

Student: Muhammad Shoaib

★ 1. What is SPECKit Plus? – Short Note

SPECKit Plus is a structured development framework that teaches how to think, plan, and execute software projects using a clear, repeatable pattern. It divides the entire engineering process into **five phases**:

1. **Constitution** – Define the purpose, identity, and boundaries of the project.
2. **Specify** – Convert the vision into detailed requirements.
3. **Plan** – Create a roadmap of the entire system.
4. **Tasks** – Break the roadmap into small, actionable tasks.
5. **Implement** – Build features step-by-step according to the plan.

This framework ensures clarity, reduces errors, improves teamwork, and provides professional structure before writing a single line of code. It is widely used in real-world AI and software engineering.

★ 2. Short Answers for the 5 Core Concepts

Below are **clear, concise, and professional** short answers for each SPECKit concept, exactly as required.

1) Constitution Phase — Short Answer

The Constitution Phase establishes the **foundation** of the project.

Here we define:

- Project vision and mission
- Core problem being solved
- Target users
- Boundaries and limitations
- Success criteria

It ensures everyone understands what is being built and why.

This phase gives the project its **identity, direction, and purpose**.

2) Specify Phase — Short Answer

The Specify Phase converts the vision into **precise requirements**.

Here we document:

- User stories
- Functional requirements
- Non-functional requirements
- Inputs, outputs, and acceptance rules

The goal is **zero ambiguity**.

Everyone should know exactly what the system must do before coding starts.

3) Plan Phase — Short Answer

The Plan Phase transforms requirements into a **step-by-step execution plan**.

This includes:

- System architecture
- Feature breakdown
- Technology choices
- Component grouping
- Development roadmap

It ensures the entire project is predictable and easy to manage.

This phase answers **how the project will be built**.

4) Tasks Phase — Short Answer

The Tasks Phase breaks the project into **small, clear tasks**.

Each task includes:

- Objective
- Steps
- Acceptance criteria
- Expected output

This phase creates an actionable to-do list for developers.

It helps track progress and ensures teams work in sync.

5) Implement Phase — Short Answer

The Implement Phase is where actual **coding begins**.

Developers follow the tasks and build:

- Features
- APIs
- UI components
- Agent logic
- Integrations

The focus is on writing clean, structured, and testable code that strictly follows previous specifications.

This phase converts all planning into a working product.