

AIDD 30-DAYS CHALLENGE — TASK 2

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Class Slot: Friday — 6 PM to 9 PM

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PART A — NINE PILLARS UNDERSTANDING

Q1: Why is using AI Development Agents (like Gemini CLI) for repetitive setup tasks better for your growth as a system architect?

AI Development Agents repetitive setup tasks ko automate kar dete hain, jisse developer ka time aur energy waste nahi hoti.

Is se developer boring manual work me phansne ke bajaye **system design, architecture planning aur strategic decision-making** par focus kar sakta hai.

Yeh wo skills hain jo kisi developer ko **system architect** banne me help karti hain — isliye AI agents growth ko accelerate karte hain.

Q2: Explain how the Nine Pillars of AIDD help a developer grow into an M-Shaped Developer.

Nine Pillars developer ko M-Shaped banane me is tarah help karte hain:

- Repetitive work AI ko dekar developer **higher-level thinking** par focus karta hai.
- Deep technical skills jaise **architecture, security, system integration** develop hoti hain.
- Broad skills jaise **AI tools, DevOps, cloud, automation** ka exposure milta hai.
- Developer ke paas **depth + breadth** dono aa jati hain, jo M-Shaped skillset hota hai.

PART B — Vibe Coding vs Specification-Driven Development

Q3: Why does Vibe Coding usually create problems after one week?

Vibe Coding me planning aur discipline nahi hota.

AI se jaldi banaya gaya code pehle chal jata hai, lekin:

- errors
- bugs
- inconsistency
- technical debt

1 week ke baad barhna start ho jata hai.

Is wajah se project ko maintain aur scale karna mushkil ho jata hai.

Q4: How would Specification-Driven Development prevent those problems?

Specification-Driven Development clear planning deta hai.

Isme:

- code structured hota hai
- errors kam hotay hain
- requirements pehle se defined hoti hain
- AI ko clear instructions milti hain

Is structure ki wajah se bugs, confusion aur rework dramatically reduce ho jata hai.

Q5: Explain why developers must think in layers and systems instead of raw code.

Raw code sirf ek choti problem solve karta hai.

Lekin layered aur system-thinking developer ko poora architecture samjhati hai — jaise:

- UI Layer

- Logic Layer
- Data Layer
- Security Layer

Is tarah software **scalable, maintainable, and efficient** banta hai.
Ye approach ek **architect ki thinking** hoti hai — sirf coder ki nahi.

PART C — MCQs (Solved)

1. What is the main purpose of Spec-Driven Development?
✓ B. Clear requirements before coding begins
2. What is the biggest mindset shift in AI-Driven Development?
✓ B. Thinking in systems and clear instructions
3. Biggest failure of Vibe Coding?
✓ B. Architecture becomes hard to extend
4. Main advantage of using AI CLI agents (like Gemini CLI)?
✓ B. Handle repetitive tasks so dev focuses on design & problem-solving
5. What defines an M-Shaped Developer?
✓ C. Deep skills in multiple related domains