Generated Notes

Building Projects in the AI Era: A Simple Guide

1. Learning Phase (Think of it like learning to ride a bike):

* **How to Learn:**
  * **Documentation/Crash Courses**: Start with the instructions (like the bike's manual) or a q
  * **Basic Project**: Build a super simple project using what you've learned. Imagine building a
  * **Stack Overflow**: When you get stuck, see how other people solved similar problems. It's
  * **AI Tools (ChatGPT):** If all else fails, ask an AI for help. Think of it as asking a super sma

2. Building Projects Phase (Think of it like building a treehouse):

* **Design First (Low-Level Design)**: Plan your project before writing code. It's like drawing a b
* **Choosing the Right Tools (Stack)**: Pick the best tools for the job (database, language). Cor
* **Database Design**: Plan how your data will be stored. Like organizing your toys in different
* **Test-Driven Development (TDD) with AI:**
  * **Traditional TDD**: Write a test, then write code to pass the test. Like checking if a plank o
  * **AI-Enhanced TDD**:
    * Use AI to generate code *and* test cases.
    * Check if the tests are thorough and cover all parts of the code.
    * Refactor the code if needed.

Key Points for Project Building:

* **Clean Code**: Focus on writing easy-to-understand code. Think of it as labeling your toolbox
* **Refactor**: Improve the code generated by AI. Like sanding down rough edges on your treeh
* **Debugging**: Be able to find and fix problems in your code. If a plank is wobbly, you need to
* **0 to 1 vs. 1 to 100 Projects**:
  * **0 to 1**: Building a project from scratch.
  * **1 to 100**: Adding features to an existing project. It's like adding a new room to your treeh

Building Context for AI (Memory Bank):

* **Create a "Memory Bank"**: A folder with markdown files explaining your project to the AI.
  * **Functional Requirements**: What your project needs to do.
  * **Low-Level Design (LLD)**: How the project is structured.
  * **Flows**: How data moves through your project.