Module 1: Domain Modelling and Introduction to Capstone Project

Welcome to our first non-coding week. It's going to be intense! Did you think only coding weeks would get intense? 😏

This module introduces you to your capstone project: You will build a Twitter Clone over the next 3 months. It’s the same old app that you're well familiar with. But this time, you will be building it from scratch. You will design the database, the backend, and the front end. All of it. So, how do you start building something complex? We've deconstructed the process down to these steps:

1. Domain Modelling: Helps you break the work down into smaller pieces
2. UI Building: Screens, Components, Interactions
3. API Building: Persistence Layer and Web Servers
4. Putting it all together

Lesson 1: ⭐Introduction to Domain Modelling ⭐

- We answer the following questions: What is domain modeling? Why is it important? How do we do it?
- We learn new vocabulary: Entities (nouns), Attributes, Relationships, Constraints, and Actions (verbs)

Assignment 1 (Pre-assignment)

Submit your write-up about "What Domain Modelling Means" before finishing the video. (Covered in Lesson 1)

[Live Class] Lesson 2: Introduction to Capstone Project

Learn how projects are launched in real life! A designer will walk us through the Figma screens of your Capstone Project. In the live class, we will discuss the project requirements, ask the right questions to the designer, and try to understand the project better. You will have access to the screens throughout the cohort.

[Live Class] Lesson 3: Deep Dive into Domain Modelling 🧘‍♂️

Swanand and Siddhant go through the domain modeling of a real-life project. In the class, we carve out entities, attributes, relationships, constraints, and actions. You will learn how to define all of those and build an understanding of the work around these concepts. There will be hands-on exercises.

Take lots of notes!

Assignment 2 (Post-assignment -- after Lesson 3)

1. On Goodreads.com, we will work with the following 3 screens:
    1. Book Page: Example 1, Example 2
    2. Book Review Page: Example 1, Example 2
    3. Author Page: Example 1, Example 2
2. **Task 1:** Make a list of the following:
    1. Entities and their Attributes
    2. Relationships between Entities
    3. Constraints
    4. Actions
3. **Task 2:** Draw an ER diagram from the above data

Assignment 3 (Post-assignment -- after Lesson 3)

We will share an ER diagram with you, with some intentional errors and mistakes. **You task:** Spot and list all errors & mistakes. Fix them and share an error-free diagram with us.