# Sprint 2 ( week of 22/04/2025)

# Terminology:

* A **modular system** is designed using independent, interchangeable components (modules).
* Each feature (like course creation or resource upload) is self-contained.
* This makes your system easier to maintain, scale, and test.

Think of it like Lego blocks: each block is a module that you can plug in without messing up the others.

A **dynamic system** can change or adapt based on user input or data without needing a page refresh or redeployment.

For example:

* Admin sees live updates to courses/resources
* The UI adjusts depending on the admin’s actions (e.g., loading forms, confirming updates)
* Data fetched from backend and displayed in real-time

**Sprint Plan: Admin Dashboard – Course & Resource Management**

**Sprint Duration:** 1 week (5 working days)  
**Team:** Backend Developer, Frontend Developer, UI/UX Designer (optional)

**🎯 Sprint Goal**

Build a modular Admin Dashboard where admins can log in, create courses, and upload/view resources for each course.

**👤 User Stories**

**1. As an admin, I want to log in securely so that I can access the dashboard.**

* **Status:** ✅ Done

**2. As an admin, I want to create a new course by entering a title, description, instructor, and level.**

* **Estimated Time:** 4 hours
* **Tasks:**
  + Backend: Design Course model and API endpoints (2 hrs)
  + Frontend: Create Course creation form (2 hrs)

**3. As an admin, I want to view a list of all existing courses.**

* **Estimated Time:** 3 hours
* **Tasks:**
  + Backend: Create endpoint to fetch all courses (1 hr)
  + Frontend: Display course list in dashboard (2 hrs)

**4. As an admin, I want to upload learning resources (PDF, videos, etc.) for each course.**

* **Estimated Time:** 4 hours
* **Tasks:**
  + Backend: Create Resource model and upload endpoint (2 hrs)
  + Frontend: Create upload form and connect it (2 hrs)

**5. As an admin, I want to view all resources uploaded for a specific course.**

* **Estimated Time:** 3 hours
* **Tasks:**
  + Backend: Endpoint to fetch resources by courseId (1 hr)
  + Frontend: Display list of resources per course (2 hrs)

**6. As a developer, I want a clean UI for the admin dashboard.**

* **Estimated Time:** 6 hours
* **Tasks:**
  + Dashboard layout and routing (3 hrs)
  + Styling forms and views (3 hrs)

**📅 Sprint Timeline**

| **Day** | **Tasks** |
| --- | --- |
| **Day 1** | Finalize DB models (Course, Resource), set up backend routes |
| **Day 2** | Implement course creation & viewing APIs + frontend integration |
| **Day 3** | Build resource upload and viewing functionality |
| **Day 4** | Frontend UI/UX improvements, error handling, validations |
| **Day 5** | Final integration + testing (manual & Postman) + small tweaks |

**⏳ Total Estimated Time**

* **Backend Tasks:** ~9 hours
* **Frontend Tasks:** ~11 hours
* **UI/UX (if applicable):** ~6 hours
* **Buffer for testing/fixes:** ~4 hours