



Technical affairs- IIITDM Kancheepuram



Day - 19

API development Challenge

Date : 19/07/2025

Duration : 24 Hours

Challenge Brief

Students and administrators often struggle with fragmented or hard-to-access information regarding courses, their prerequisites, and faculty details like specializations and office hours. While this information exists on college websites, it's not readily available in a format that other software applications can easily consume. Your challenge is to build an API that solves this by offering a standardized and efficient way for other applications (e.g., mobile apps, personalized dashboards, research tools) to retrieve and utilize this vital campus data.

Objective

To design and implement a RESTful API that provides structured, programmatic access to mock college course and faculty information. The goal is to demonstrate the ability to

create a well-structured, functional API that could serve as a backbone for various student and administrative applications.

General Guidelines

1. A 24-hour hackathon starting from 12:00 AM on 19/07/2025
 2. **Team Size:** 1-2 participants per team.
 3. **Technology Stack:** Node.js/Express, Python/Flask/Django, Ruby/Rails, Go, etc.
Use Postman to test your API.
 4. **API Style:** The API should be a RESTful Web API, communicating over HTTP/HTTPS and typically returning data in JSON format. No User Authentication needed.
 5. Submission Deadline: 11:59 PM on 19/07/2025.
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Deliverables

1. API Backend Code
 2. API Documentation (Markdown/Text):
 - Setup Instructions
 - Endpoint Reference
 - Data Model
 3. Live Demonstration (A short (3-5 minute) presentation)
 4. Presentation Slides (Optional)
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Evaluation Criteria

1. API Design & Structure (30%)
2. Functionality (30%)
3. Code Quality & Readability (20%)
4. Documentation & Presentation (20%)

Addition resources or dataset

Teams should **create their own mock datasets**.

- **Mock Data Generation: Manual JSON Files**
- **Suggested Data Fields (Examples):**
 - Course: id, name, code, description, credits, department, prerequisites (array of course IDs), faculty_id (ID of lead instructor).
 - Faculty: id, first_name, last_name, email, department, specialization (array of strings), office_location, office_hours (e.g., "Mon/Wed 10-12").

Support

For any queries, reach out to:

Email: cs23i1010@iiitdm.ac.in

Name & contact: sainath reddy , 9390846661

WhatsApp Community: <https://chat.whatsapp.com/CEjhrp1QoLYLs1m4OgslMT>

Submission

Please Submit here - <https://forms.gle/uV7ZXBaHxTNSGAU17>



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