Session 2: Building the Backend

Session 2 Objectives & Setup X

- Tech Stack:
 - Example: Python Flask or Node.js with Express
- Goals:
 - Set up a backend service from scratch
 - Implement full CRUD endpoints
 - Understand middleware and error handling

Project Setup & API Design

- Project Structure:
 - Define directories, install dependencies
- API Scope Example:
 - To-Do App (tasks: create, read, update, delete)
- Endpoint Mapping:
 - /tasks (GET, POST)
 - o /tasks/{id} (GET, PUT, DELETE)

Live Coding: Building Your API

- Initial Setup:
 - Initialize project and configure routing
- Example with Node.js/Express:

```
const express = require('express');
     const app = express();
     app.use(express.json());
     let tasks = []:
     app.get('/tasks', (req, res) => {
          res.json(tasks);
     });
     app.post('/tasks', (req, res) => {
         const task = { id: tasks.length + 1, ...req.body };
         tasks.push(task);
          res.status(201).json(task);
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```

Discussion & Q&A Session 2 "



- Review challenges and debugging tips
- Explore middleware options (logging, security)
- Open floor for questions