Exam Coverage & Study Main Points System

A Backend Solution for Students & Teachers

Problem Statement

- Teachers rarely specify detailed exam topics, leaving gaps in communication.

- Students often study entire chapters unnecessarily, wasting valuable time.

- Lack of clarity regarding question types or counts creates anxiety.

- This disconnection leads to confusion, inefficiency, and significant stress for students.

Project Goal

To build a backend system that clearly communicates exam coverage, question types, counts, and key study points directly to students.

Solution Overview

🖥️ For Teachers

The system empowers teachers to upload exam topics, specify question types, set precise question counts, add key study points, and schedule exam dates effectively.

🎓 For Students

Students gain a centralized dashboard to view all exam details, ensuring they know exactly what to study, how to prepare, and when the exams are scheduled.

Teacher Features

- **Manage Topics:** Add, update, and organize specific exam topics easily.

- **Exam Structure:** Define exact question counts and types (e.g., multiple choice, essay).

- **Scheduling:** Set and modify exam dates to keep everyone on track.

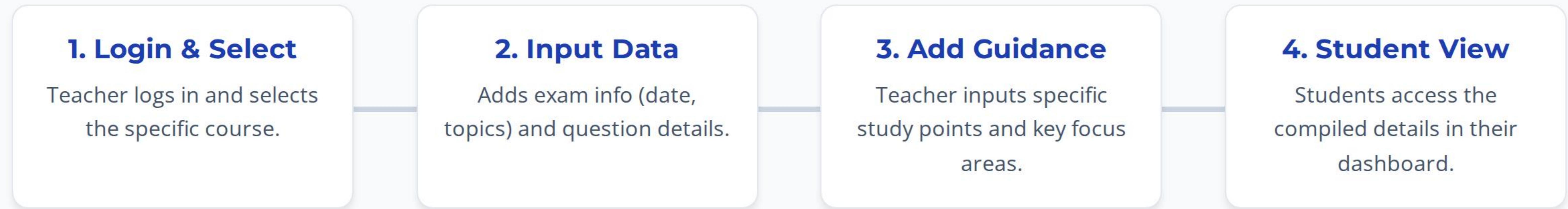- **Guidance:** Add detailed study points to focus student revision.

Student Features

- **Clear Coverage:** View precise exam coverage and relevant topics.

- **Format Details:** See the breakdown of question types and counts.

- **Focused Study:** Access main study points and identify important chapters.

- **Efficiency:** Study more effectively by focusing on what matters.

System Workflow

1. Login & Select
Teacher logs in and selects the specific course.

2. Input Data
Adds exam info (date, topics) and question details.

3. Add Guidance
Teacher inputs specific study points and key focus areas.

4. Student View
Students access the compiled details in their dashboard.

Database Design

Table Name	Columns / Schema
teachers	id, name, email
courses	id, course_name, teacher_id
exam_info	topics, question_count, type, date
study_points	exam_info_id, point_text

API Overview

Teacher Endpoints

POST / PUT / DELETE

Manage exam information securely.

POST

Create new study points for specific exams.

Student Endpoints

GET

Retrieve comprehensive exam information.

GET

Fetch detailed study points and guidance.

Key Benefits

Students

Clear focus, reduced stress, and significantly better preparation.

Teachers

Clear, direct communication of expectations without repetitive questions.

University

A more organized exam structure and improved academic process.

Conclusion

A simple backend system that reduces confusion, saves study time, and improves exam preparation.

Thank you!

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Image Sources

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