GLORIFY: Ace the JEE with Smart Prep

GLORIFY

Your all-in-one digital platform for JEE exam preparation.

Aim

For success in one of India’s toughest competitive exams!

Created by

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Why Choose GLORIFY for JEE?

All-in-One Platform

GLORIFY offers mock tests, progress tracking, and insights in one place. It solves the problems of scattered resources and lack of personalization.

Personalized Learning

The platform analyzes performance, highlights strengths, and pinpoints weak areas. It also provides targeted recommendations for improvement.

Seamless Experience

GLORIFY provides an easy-to-use interface, curated resources, and real-time feedback. It makes exam preparation more effective and student-friendly.

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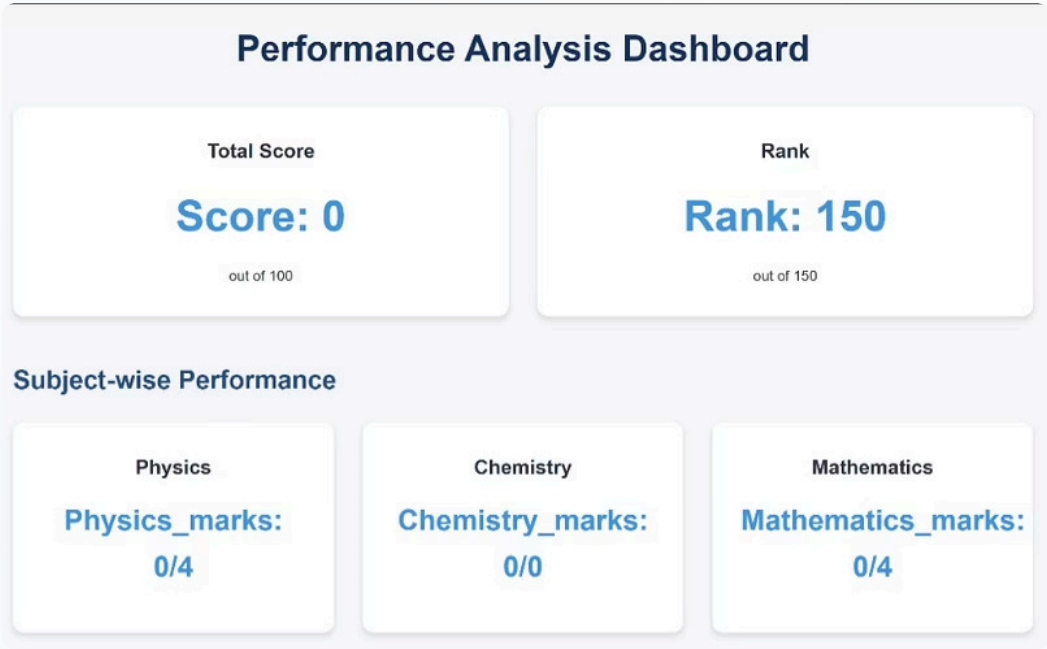
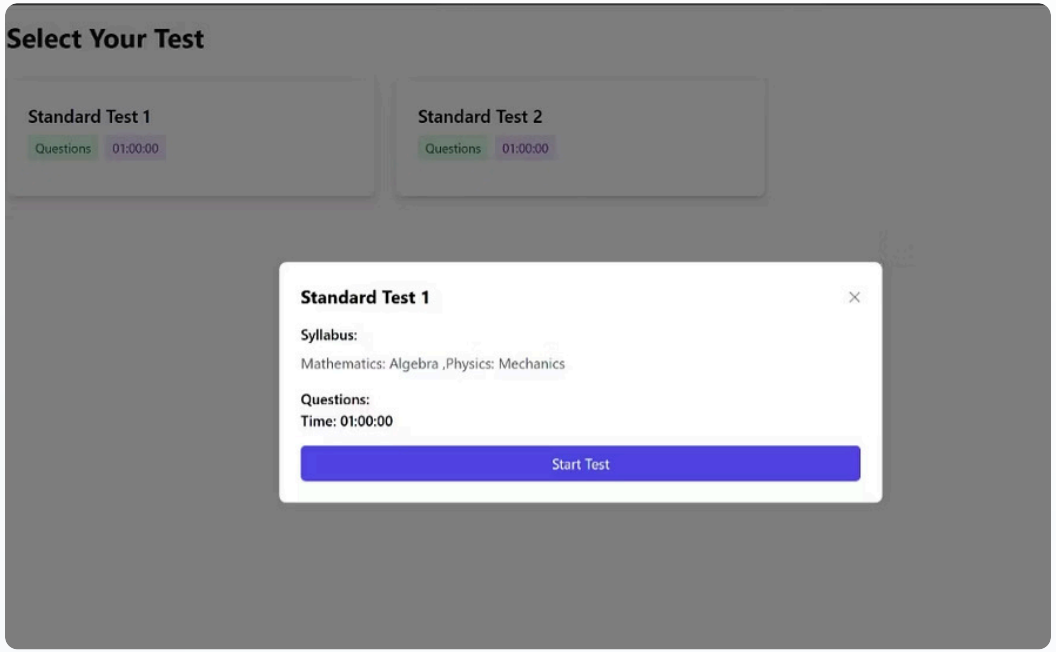
Key Requirements for JEE Success



Ranking & Competitive Analysis

Compare performance across multiple tests with rankings based on marks, time efficiency, and performance trends.



Mock Test Management

Take standard mock tests or create customized tests by subject, chapter, and difficulty level.

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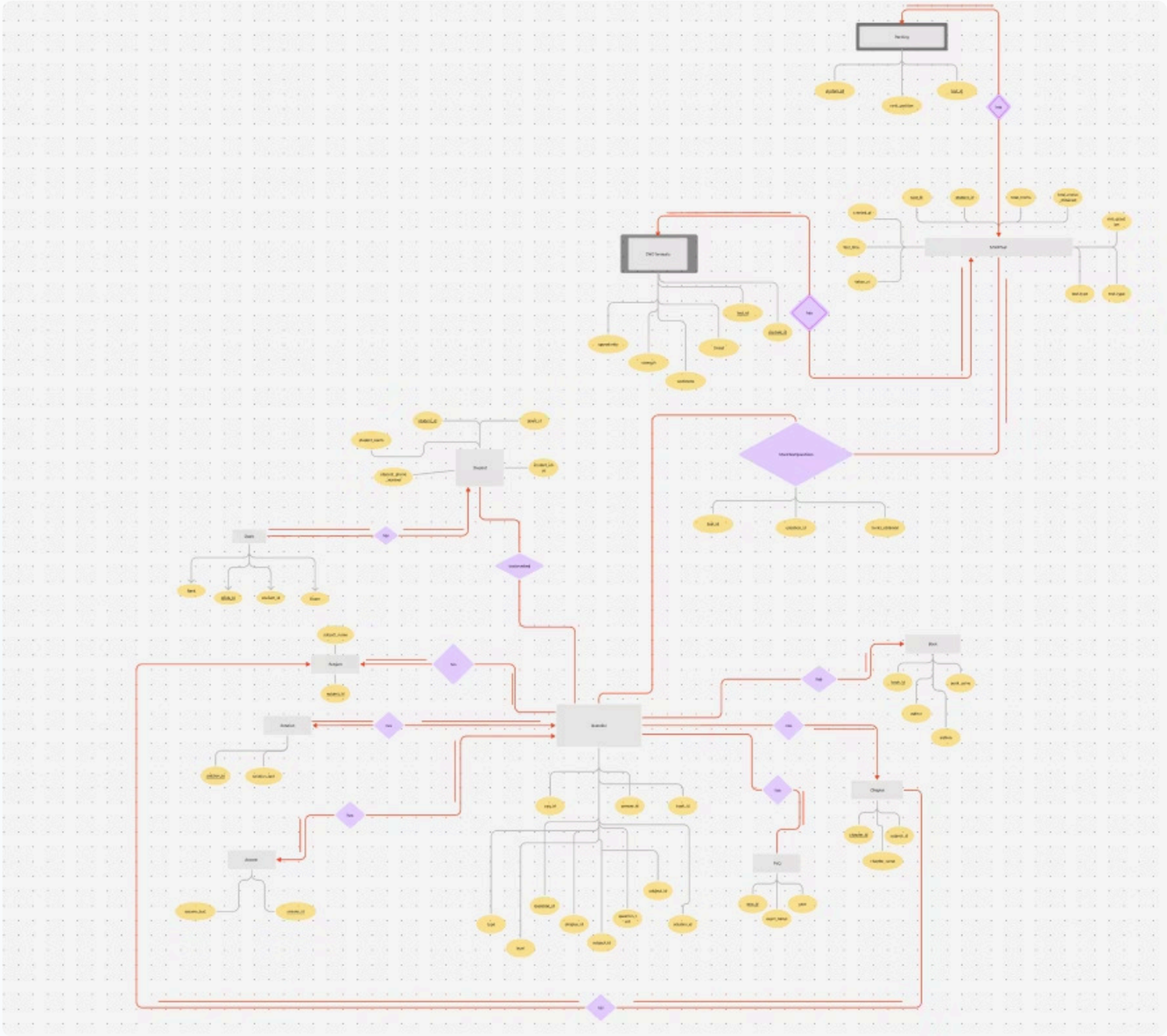
Data Modeling for GLORIFY



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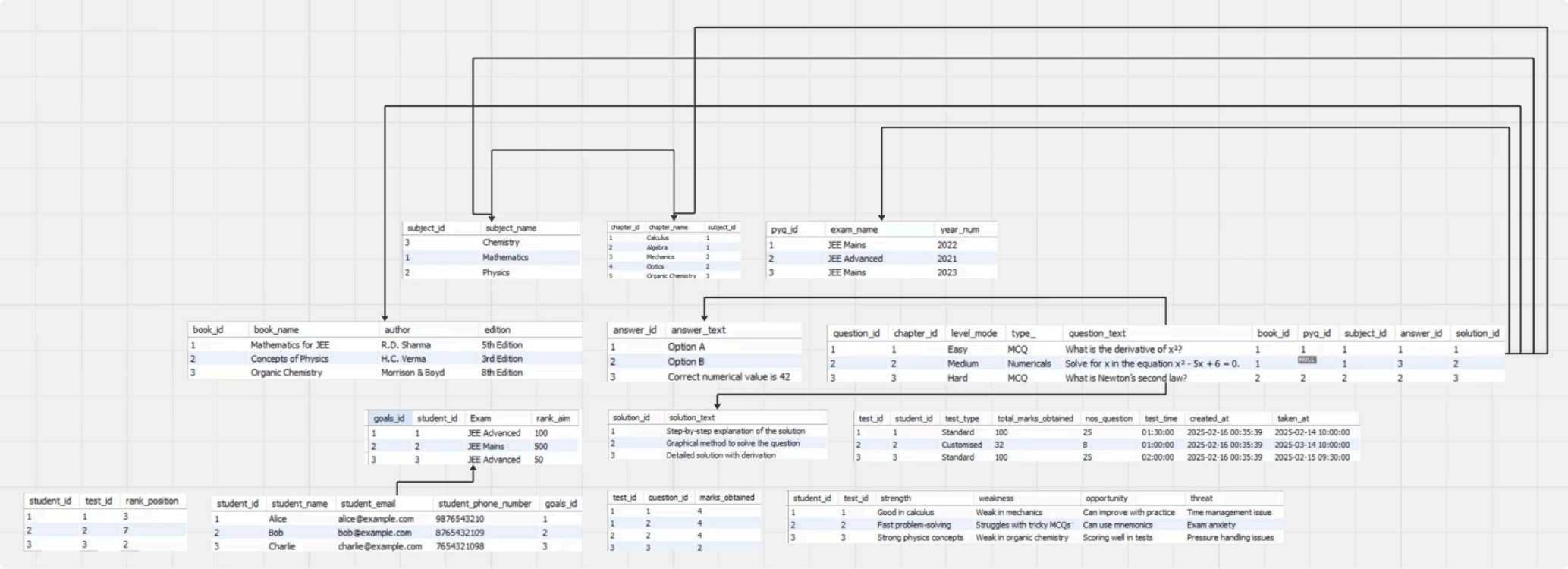
Database Relational Schema



subject_id	subject_name
3	Chemistry
1	Mathematics
2	Physics

chapter_id	chapter_name	subject_id
1	Calculus	1
2	Algebra	1
3	Mechanics	2
4	Optics	2
5	Organic Chemistry	3

pyq_id	exam_name	year_num
1	JEE Mains	2022
2	JEE Advanced	2021
3	JEE Mains	2023

book_id	book_name	author	edition
1	Mathematics for JEE	R.D. Sharma	5th Edition
2	Concepts of Physics	H.C. Verma	3rd Edition
3	Organic Chemistry	Morrison & Boyd	8th Edition

answer_id	answer_text
1	Option A
2	Option B
3	Correct numerical value is 42

question_id	chapter_id	level_mode	type_	question_text	book_id	pyq_id	subject_id	answer_id	solution_id
1	1	Easy	MCQ	What is the derivative of x^2?	1	1	1	1	1
2	2	Medium	Numericals	Solve for x in the equation $x^2 - 5x + 6 = 0$.	1	NULL	1	3	2
3	3	Hard	MCQ	What is Newton's second law?	2	2	2	2	3

goals_id	student_id	Exam	rank_aim
1	1	JEE Advanced	100
2	2	JEE Mains	500
3	3	JEE Advanced	50

solution_id	solution_text
1	Step-by-step explanation of the solution
2	Graphical method to solve the question
3	Detailed solution with derivation

test_id	student_id	test_type	total_marks_obtained	nos_question	test_time	created_at	taken_at
1	1	Standard	100	25	01:30:00	2025-02-16 00:35:39	2025-02-14 10:00:00
2	2	Customised	32	8	01:00:00	2025-02-16 00:35:39	2025-03-14 10:00:00
3	3	Standard	100	25	02:00:00	2025-02-16 00:35:39	2025-02-15 09:30:00

student_id	test_id	rank_position
1	1	3
2	2	7
3	3	2

student_id	student_name	student_email	student_phone_number	goals_id
1	Alice	alice@example.com	9876543210	1
2	Bob	bob@example.com	8765432109	2
3	Charlie	charlie@example.com	7654321098	3

test_id	question_id	marks_obtained
1	1	4
1	2	4
2	2	4
3	3	2

student_id	test_id	strength	weakness	opportunity	threat
1	1	Good in calculus	Weak in mechanics	Can improve with practice	Time management issue
2	2	Fast problem-solving	Struggles with tricky MCQs	Can use mnemonics	Exam anxiety
3	3	Strong physics concepts	Weak in organic chemistry	Scoring well in tests	Pressure handling issues

Relational schemas define the structure of the database, including tables, columns, data types, and relationships.

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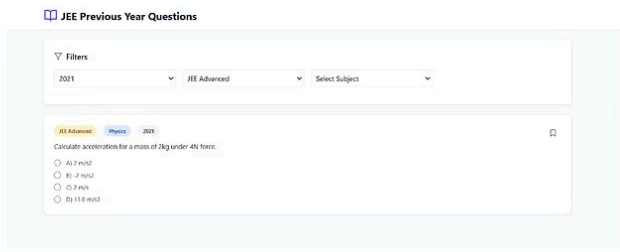
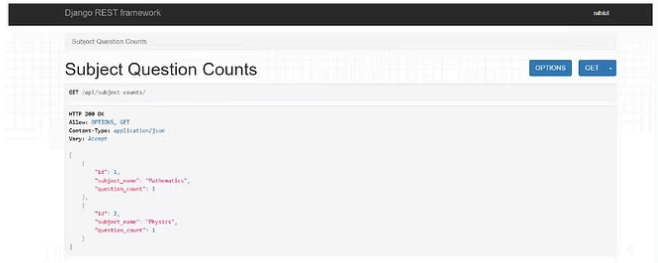
SQL Queries

List all previous year questions from JEE Advanced

```
SELECT Q.question_id, Q.question_text, P.exam_name, P.year_num
FROM Question Q
JOIN PYQ P ON Q.pyq_id = P.pyq_id
WHERE P.exam_name = 'JEE Advanced';
```

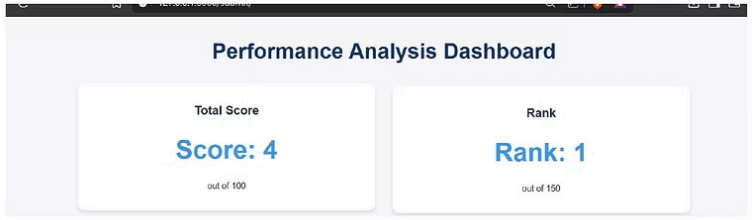



```
-- Get the count of questions for each subject
SELECT subject_id, COUNT(question_id)
FROM Question
GROUP BY subject_id;
```



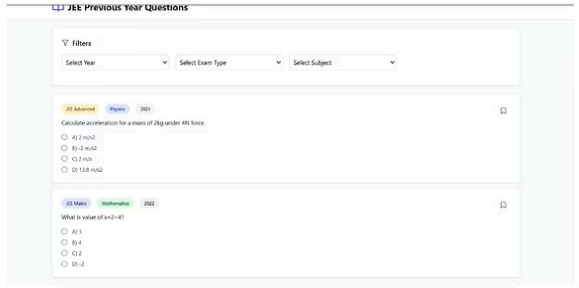
Find the rank of a student in a particular test

```
SELECT rank_position FROM Ranking
WHERE student_id = (SELECT student_id FROM Student WHERE student_name
= 'Alice')
AND test_id = 1;
```



List all previous year questions along with the exam and year

```
SELECT Question.question_text, PYQ.exam_name, PYQ.year_num
FROM Question
JOIN PYQ ON Question.pyq_id = PYQ.pyq_id;
```



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Tech Stack Used

GLORIFY employs a modern tech stack. Here's a breakdown of the key components:

Front End

Built with HTML, CSS, JavaScript, and React for a dynamic user interface.

Back End

Powered by Django, MySQL with a REST framework for robust API development.

Database

Utilizes SQL Client for efficient database interactions and management.

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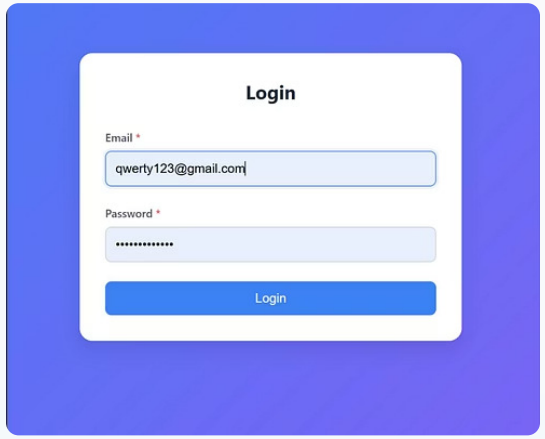
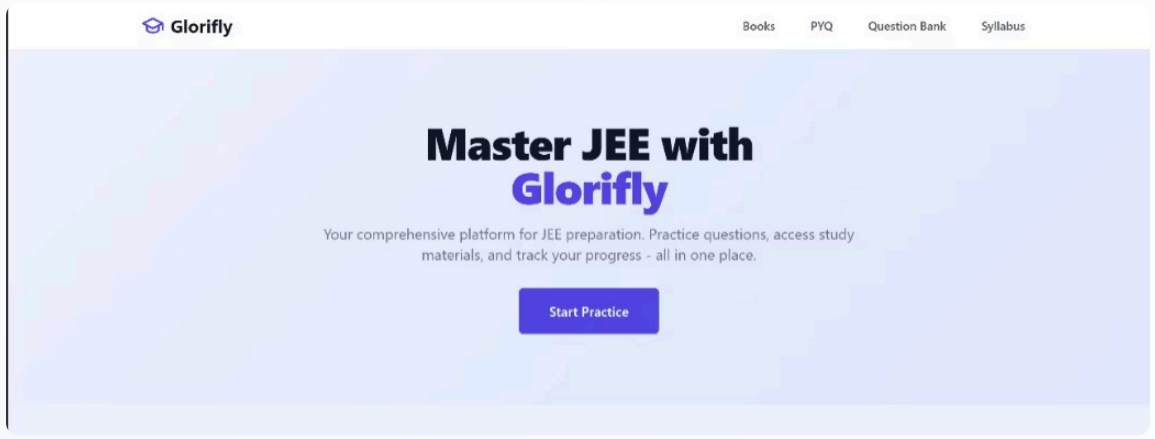
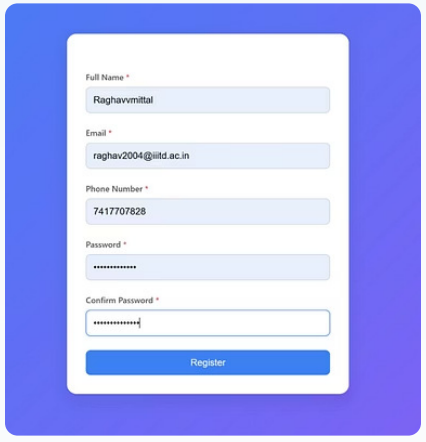
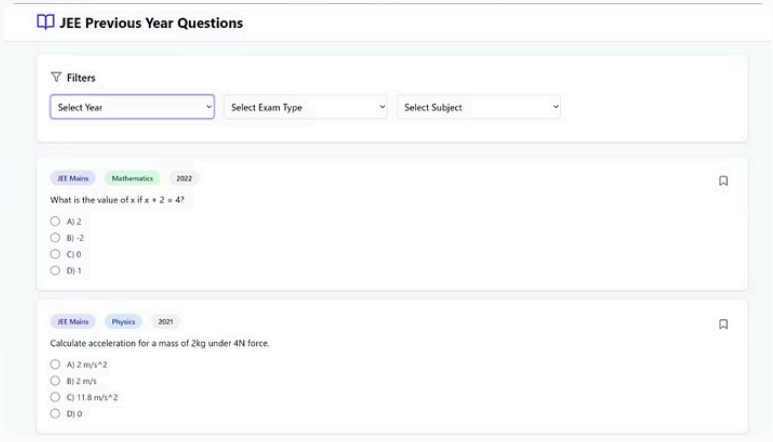
FRONT-END GUI









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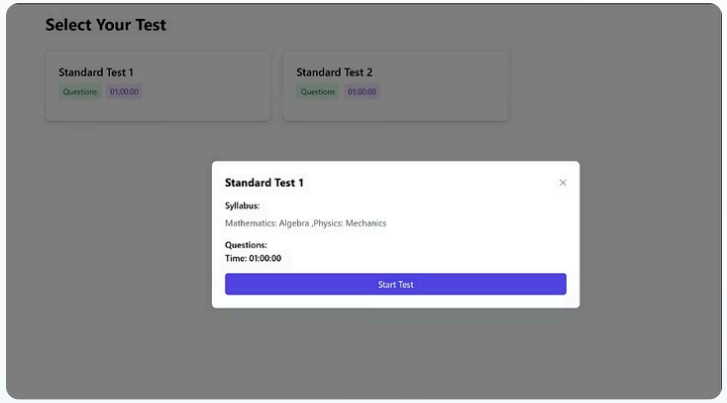
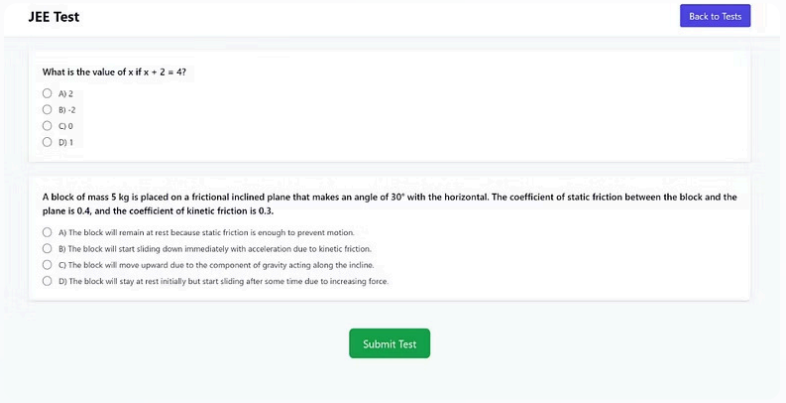
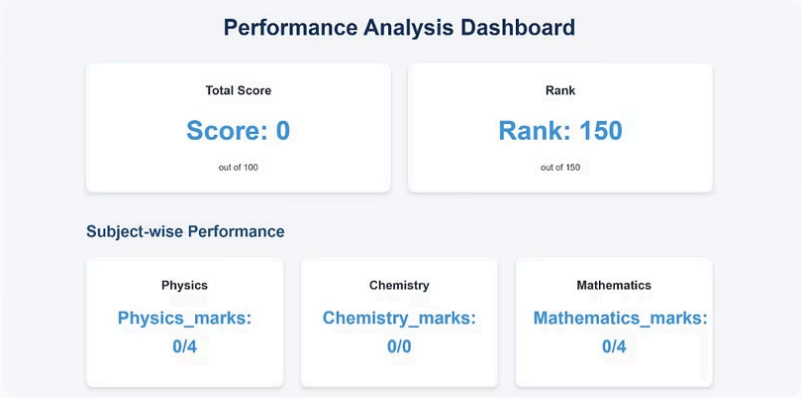
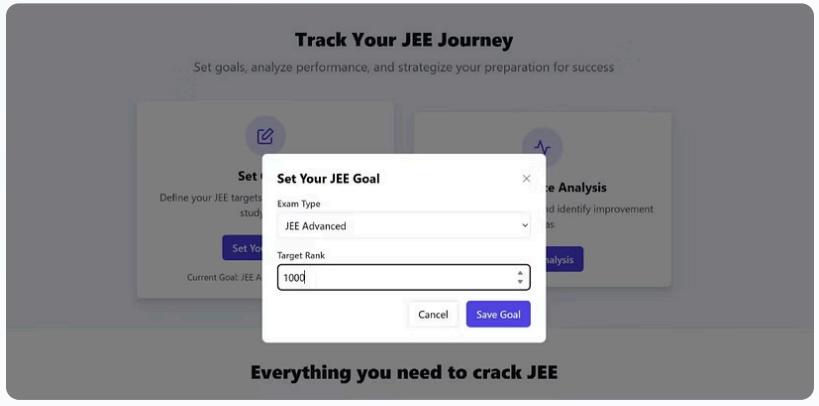
FRONT END GUI









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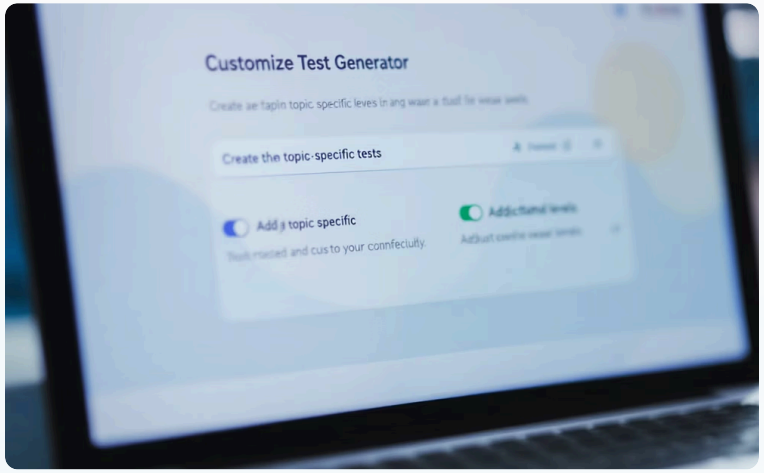
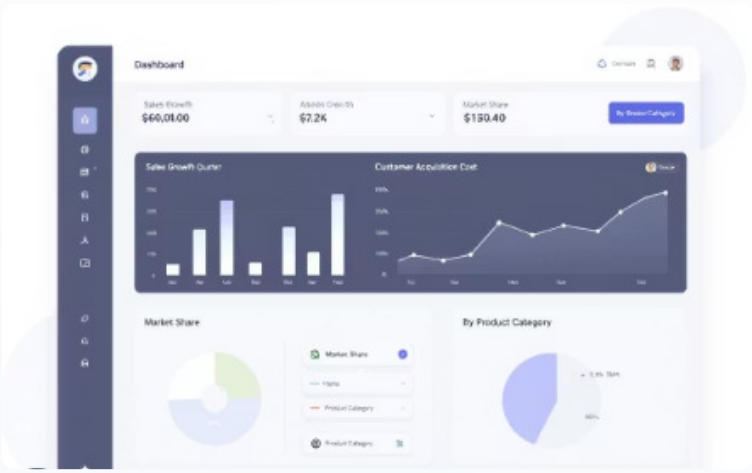
Potential Improvements



Customized Test Generator

Create topic-wise tests, adjusting difficulty. Focus on weak areas for efficient study.



Personalized Performance Analysis

Track progress, see ranking, and gain insights to refine your study strategy.

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Unlock Your JEE Potential with GLORIFY

Start Your Journey Today

Access powerful tools and resources to begin your preparation.

Achieve Your Dream Score

Transform your preparation with GLORIFY's smart approach.

Be a GLORIFIER

Join the community of successful JEE aspirants.

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