CS 387 PROJECT

TEAM MEMBERS :

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TYPE OF PROJECT :

- Building an information system (DB application).
- Information about questions and answers related to any particular topic can be displayed quantitatively in different aspects like difficulty, popularity e.t.c through the website.

PROJECT DESCRIPTION :

- This project serves to gather interesting questions and answers related to a course topic taught at IITB over the years.
- We construct an interactive web interface where students can ask any course-related queries which can be answered by instructors/authorities/other students once they are approved by the page admin.
- The questions related to a course can be filtered on topic, displayed in increasing order of difficulty or recency of the question.
- Questions can be searched by matching the keywords.
- Similarly the answers for a question are sorted by user preferences like upvotes, given by the instructor.
- Answers can be upvoted by any user. The instructor’s answer is prioritized over other answers. Difficulty level of a question can be given by any user.
- The database is populated by the users’ questions and answers.

RELEVANT CONCEPTS :

- For web application development, we will use the experience gained in Lab4 where we built a backend server in Node.js and a frontend web interface using reactjs.
- ER diagrams and normalized forms to create schemas and tables.
- Advanced SQL queries to retrieve data from database and create API.
- Using knowledge of functional dependencies to optimally impose constraints.

MILESTONES :

Mile stone	Deadline
Team formation, first sketch of the project requirements defining scope	7th March
Identify entities for the application data	15th March
Derive a normalized logical schema for the constructed ER diagram, DDL, SQL queries for all the required data to be displayed.	30th March
Integrate the backend and frontend to produce a complete working application.	10th April
Test the application functionality for different cases and add styling.	15th April
Submit the github repo with a final report, design details and conclusion.	20th April