

LEADER BOARD: (Mini project)

Definition: A leaderboard is a visual representation of participants' rankings in a competitive activity, typically based on their performance or scores. It is commonly used in educational, gaming, and corporate environments to motivate and track progress.

Features:

1. Ranking Display:

- Lists participants in order of their performance.
- Highlights top performers.

2. Real-Time Updates:

- Automatically updates scores and positions as new data comes in.
- Ensures current and accurate standings.

3. User Profiles:

- Displays participant names or usernames.
- May include avatars or photos.

4. Points or Scores:

- Shows scores or points earned by each participant.
- Often includes the criteria for earning points.

5. Time-Based Filters:

- Allows viewing rankings for different time periods (e.g., daily, weekly, monthly).

6. Categorization:

- Can segment participants by groups, teams, or categories.
- Facilitates comparison within specific cohorts.

7. Achievement Badges:

- Awards badges or achievements for reaching certain milestones.
- Enhances motivation and engagement.

8. Progress Indicators:

- Visualizes progress towards goals.
- Provides feedback on performance trends.

Benefits of Using a Leaderboard

1. Increases Motivation:

- Encourages participants to improve their performance.
- Fosters a healthy competitive spirit.

2. Enhances Engagement:

- Keeps participants actively involved.
- Makes activities more interactive and fun.

3. Promotes Recognition:

- Publicly acknowledges high achievers.
- Boosts morale and satisfaction.

3. Provides Feedback:

- Offers immediate insight into performance.
- Helps identify areas for improvement.

By incorporating these features, leaderboards can effectively enhance motivation, engagement, and overall performance in various contexts.

TABLES:

TABLE-1: STUDENT_DETAILS

StudentID: A unique identifier for each student (Primary Key).

1. **Name:** The student's first name.
2. **RollNumber:** Roll Number of the student (Unique Key)
3. **DateOfBirth:** The student's date of birth.
4. **Gender:** The student's gender.
5. **Email:** The student's email address.
6. **Phone:** The student's phone number.
7. **Address:** The student's address.
8. **DateOfJoining:** The date the student was enrolled.
9. **Status:** The student's current status (e.g., active, graduated, withdrawn).

TABLE-2: Assessment Details

"AssessmentDetails" table for a database:

1. **AssessmentID:** A unique identifier for each assessment (Primary Key).
2. **AssessmentName:** The name or title of the assessment.
3. **TotalMarks:** The total marks that can be obtained in the assessment.
4. **PassingMarks:** The minimum marks required to pass the assessment.
5. **DateCreated:** The date the assessment was created.
6. **DateScheduled:** The date the assessment is scheduled to take place.
7. **Duration:** The duration of the assessment (e.g., 60 minutes).

TABLE-3: "AssessmentResult" table for a database:

1. **ResultID:** A unique identifier for each result (Primary Key).
2. **StudentID:** The unique identifier of the student (Foreign Key).
3. **AssessmentID:** The unique identifier of the assessment (Foreign Key).
4. **Score:** The score the student achieved on the assessment.

5. **Grade:** The grade or classification of the score (e.g., A, B, C).
6. **Date Taken:** The date the assessment was taken.
7. **Comments:** Any additional comments or feedback on the student's performance.
8. **Status:** The status of the assessment (e.g., completed, pending, reviewed)

UI:

1. Student Registration form:
 - This saves the data in the student table
2. Assessment Create Form:
 - Name, Total Marks, Qualification Marks, Schedule Date
3. Assessment Result Update form:
 - Roll Number, Assessment Name, Marks Secured
4. Leader Board:
 - Table with Roll Number, Assessment Name, Marks Secured

Sample Leaderboard UI Designs for Student Assessments

Here are three sample leaderboard UI designs for a student assessment scenario:

1. Simple Table View

Here is a sample Leaderboard UI table

Rank	Student Name	Roll Number	Percentage	Secured Marks	Total marks
1	Abhiram	AIT26102	95	121	130
2	Sirisha	AIT26123	94	120	130
3	Bharath	AIT26127	93	119	130
4	Srikanth	AIT26115	88	115	130

2. Card View

John Doe

- **Rank:** 1
- **Assessment:** Math Midterm
- **Score:** 95

- **Grade:** A
- **Date Taken:** 2024-05-01

Jane Smith

- **Rank:** 2
- **Assessment:** Math Midterm
- **Score:** 93
- **Grade:** A



- **Date Taken:** 2024-05-01

3. Graphical View

- Bar chart representing scores
- Students on the X-axis, scores on the Y-axis
- Highlight top performers with different colors

