

MathVerse Complete Project Document

1. Targeted Industries

- 1.1 Schools (Primary, Secondary, Senior Secondary)
- 1.2 Coaching Institutes / Tuition Centers
- 1.3 Colleges & Universities (Engineering, Science)
- 1.4 Online Education Platforms
- 1.5 EdTech Startups
- 1.6 NGOs working in Education
- 1.7 Libraries & Study Hubs
- 1.8 Test Prep Centers (JEE, CET, NEET, Olympiads)
- 1.9 Independent Tutors / Teachers

2. Type of Users

2.1 Admin (Full Access)

- 2.1.1 Super Admin – manages the entire platform, users, content, design
- 2.1.2 Content Admin – manages syllabus, chapters, quiz, and updates

2.2 Teachers / Educators

- 2.2.1 Content Creator – can add/update syllabus explanations, examples, and quizzes
- 2.2.2 Moderator – reviews contributions, ensures accuracy

2.3 Students (End Users)

- 2.3.1 Free Users – access limited chapters, problems, and quizzes
- 2.3.2 Premium Users – access full syllabus, solutions, progress tracker, and personalized learning
- 2.3.3 Guest Visitors – view syllabus outline only

2.4 Parents

- 2.4.1 View student's progress
- 2.4.2 Get learning insights and reports

3. Target Audience

3.1 Students (Class 1 – Engineering)

3.2 Teachers / Tutors

3.3 Parents

3.4 Coaching Institutes & Schools

4. Features

4.1 Syllabus & Content Management – NCERT-aligned, explanations, search/filter

4.2 Practice & Problem Solving – Solved & Practice Problems, Exercises

4.3 Quiz & Gamification – Chapter-wise quizzes, Math Quest game, Leaderboards

4.4 Reports & Analytics – Student Progress Tracker, Weak Area Analysis

4.5 User & Role Management – Roles for Admin, Teachers, Students, Parents

4.6 UI/UX & Accessibility – Dark/Light Mode, Responsive Design

4.7 Extras – Downloadable PDFs, Bookmarks, Offline Mode, Multi-language Support

5. Pages

5.1 Dashboard – Personalized learning summary, alerts

5.2 Syllabus – Class cards, collapsible chapters, filters

5.3 Problems & Solutions – Solved & Practice Problems, Exercises

5.4 Quizzes & Games – Quizzes, Math Quest, Leaderboards

5.5 Reports – Performance, Weak Areas, Export

5.6 About & Contact – About, Contact, Testimonials

6. Feature Weightage with Sub-features

6.1 High Priority –

Syllabus, Problem Solving, Quizzes, Progress Reports

6.2 Medium Priority –

Role Management, Leaderboards, Multi-language Support

6.3 Low Priority –

Dark/Light Mode, Downloadable PDFs, Advanced Analytics

7. Problem Solved & Uniqueness

7.1 Problems We Solve –

Lack of structured math content, missing practice integration, no parent tracking, lack of gamification.

7.2 What Makes Us Special –

Covers Class 1–Engineering, gamified quizzes, modern UI, teacher/parent tools.

7.3 Why We're Different –

Combines learning + practice + analytics + gamification, future-ready.

8. References & Competitors

8.1 Major Competitors:

1.Byju's-<https://byjus.com/>

2.Khan Academy-<https://www.khanacademy.org/>

3.Vedantu-<https://www.vedantu.com/>

4.Toppr - app

5.Doubtnut- <https://www.doubtnut.com/>

6.Cuemath- <https://www.cuemath.com/>

7.Wolfram Mathworld-<https://mathworld.wolfram.com/>

8.The Math World-<https://www.themathworld.com/>

9.Cuemath-<https://www.cuemath.com/>

10. Mathvalut- <https://mathvault.ca/>

8.2 Why MathVerse Stands Out –

Full Class 1–12 + Engineering coverage, solved problems, gamified, teacher-parent ecosystem.