Backend and database feature requirements:

1. Authentication:

   - Signup/Login with Mobile or Email
   - OTP or Email Verification Page
   - Role Selection: Admin, Teacher, Student
   - Admin Approval Page for New Teachers

2. Admin Authorities:

   - View & Approve Teacher Signups
   - Create Users with Roles
   - View Reports by Day/Month/Year
   - View Questions Uploaded by Teachers
   - Track Student Access Logs

3. Teacher:

   - Upload CSV of Questions
   - Generate Question Papers (input: Class, Exam Type, Duration)
   - View/Download Past Papers
   - Check work history and see usage reports by hrs woked, question papers generated, files uploaded etc.

4. Student:

   - Search and Download Previous Year Question Papers by Class, Subject, Year

BACKEND API STRUCTURE

Authentication APIs
- `POST /auth/signup` – Register with email/mobile
- `POST /auth/verify` – OTP or link verification
- `POST /auth/login` – User login

Admin APIs
- `GET /admin/pending-teachers` – Get pending approvals
- `POST /admin/approve-teacher/:id` – Approve teacher
- `GET /admin/users` – List all users
- `GET /admin/reports` – Filter logs by date/user

Teacher APIs
- `POST /teacher/upload-questions` – Upload CSV
- `GET /teacher/question-papers` – Get list of generated papers
- `POST /teacher/generate-paper` – Generate paper with input params

Student APIs
- `GET /student/papers` – Browse old papers
- `GET /student/download/:id` – Download specific paper

Common APIs
- `GET /profile` – View profile info
- `PUT /profile` – Update profile
- `GET /classrooms` – Get available classes & sections