

Guys we will break down the system into levels:

first we will work on the this part(level 1) since it is the most important part of the system:

level 1: Main Core features

- School management
- User(super admin, admin) management
- system configuration

level 2: Key Enhancements

- Subscription and Billing Management:
- Platform Analytics and Reports

level 3: Advanced Capabilities Last

- Notifications Management
- Backup and Restore
- Performance Monitoring

level 4: Ongoing Functions

- System Updates
- Audit Trail and Compliance

Main core feature:

-school management:

- Create school
- Assign an admin to school
- Update school
- Delete school
- Read specific school
- Read all schools
- School Status:

- Activate
- Deactivate
- Archive school
- View School Data: Display key metrics for each school
  - number of students
  - number of teachers
- user management
  - Admin Management:
    - Create admin
    - Update admin
    - Delete Admin
    - Read admins
    - Read specific admin
- system configuration
  - General Settings: Set up platform-wide settings
    - time zones
    - languages
  - Email Configuration
    - Set up SMTP or third-party email services.
  - Platform Customization
    - Enable logo, theme, and branding options for schools.

## Then Add Key Enhancements

- Subscription and Billing Management:
  - Plan Creation:
    - Define subscription plans and pricing tiers.

- Billing History:
  - Display and export billing history for each school.
- Payment Reminders:
  - Send automated reminders for upcoming or overdue payments.
- Cancellation and Refunds:
  - Manage subscription cancellations and refunds

#### - Platform Analytics and Reports

- Usage Analytics:
  - Monitor active users, sessions, and retention rates.
- Financial Reports:
  - Display revenue, outstanding payments, and growth trends.
- Custom Reports:
  - Allow schools to generate tailored reports.
- Export Options:
  - Enable CSV and PDF export for reports

#### Add Advanced Capabilities Last

- Notifications Management
  - Global Notifications:
    - Send announcements across the platform.
  - Event-Based Alerts:
    - Notify users of critical events like downtime.
  - Notification Templates:
    - Design and store templates for recurring notifications.

- Delivery Tracking:
  - Monitor sent, failed, and read statuses.

#### -Backup and Restore

- Automated Backups:
  - Schedule database and file backups.
- Manual Backups:
  - Provide an option for on-demand backups.
- Data Restoration:
  - Allow restoration from backup files.
- Backup Logs:
  - Maintain detailed logs of all backup activities.

#### - Performance Monitoring

- Server Health: Monitor CPU, memory, and disk usage.
- API Latency: Track and log API response times
- Error Reporting: Display error trends and logs.
- Scaling Alerts: Notify about traffic spikes or server overload

### Ongoing Functions

#### System Updates

- Update Scheduling: Plan and schedule feature rollouts.
- Maintenance Notifications: Inform users about planned downtimes.
- Changelog Management: Maintain a log of updates and changes.
- Rollback Options: Provide the ability to roll back problematic updates.

## Audit Trail and Compliance

- User Activity Logs: Track logins, actions, and changes by users.
- Data Retention: Define policies for storing and purging old data.
- Compliance Reporting: Generate reports for GDPR, HIPAA, etc.
- Consent Management: Track and manage user consent preferences