

1. Roles in your system

1. Admin

- Manages classes, subjects, and teachers.
- Verifies data submitted by teachers.
- Can view all students, results, and system-wide data.

2. Teacher

- Can login with their own credentials.
- Can **CRUD (Create, Read, Update, Delete) student marks** for their assigned classes.
- Can view only the students in their class(es).
- Cannot delete or modify classes, subjects, or other teachers' data.

3. Student (optional)

- Can view their own results.

3. User authentication & access control

- **Teacher login page** → validate credentials in `teachers` table.
 - Once logged in, show **only the classes and students assigned to them**.
 - All CRUD operations on marks should **check the logged-in teacher's permissions**.
 - Admin panel remains as-is, but can now **verify the marks** or override if needed.
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4. Frontend flow

- **Admin panel** → manage classes, subjects, teachers, and students.
- **Teacher panel** → after login, show a dashboard like:

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Teacher Dashboard
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Class 1: View/Add/Edit Marks
Class 2: View/Add/Edit Marks
...
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Clicking a class → list of students → teacher can add/edit marks.

5. Backend flow

1. Admin creates class & assigns teacher.
2. Teacher logs in → system fetches only their class data.
3. Teacher adds/updates marks → data stored in `marks` table.
4. Admin can view marks → verify or approve.

1. Teacher login

- Already set up via `teacher_login.html + teacher_validation.php`.
 - Make sure it correctly queries the `teacher` table and sets session variables (`teacher_id`, `teacher_name`, `assigned_class_id`). ✓
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2. Teacher dashboard

- Accessible only if `teacher_logged_in` is true.
 - Shows a **list of students assigned to this teacher** (based on `assigned_class_id`).
 - Optionally display class name and basic info.
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3. Marks CRUD

- Add/update/delete marks **only for students in teacher's class**.
 - Each student row can have buttons like:
 - Add Marks
 - Edit Marks
 - Delete Marks
 - Teacher can only touch **their own class**.
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4. Admin verification

- Admin dashboard already exists.
 - Admin can **verify/approve marks**, or simply **view teacher submissions**.
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5. Optional next steps (after module works)

- Teacher account creation (admin adds teachers).
- Multiple classes per teacher.
- Password hashing for security.

Admin Dashboard Buttons

- **Home / Dashboard** – Overview of system stats
 - **Student Classes**
 - Add New Class
 - Manage Classes
 - **Subjects** – Add/Manage subjects
 - **Students** – Add/Manage students
 - **Teachers** – Add/Manage teachers, assign classes
 - **Results** – Verify/Approve results submitted by teachers
 - **Reports / Analytics** – Optional: summary stats, charts
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Teacher Dashboard Buttons

- **Home / Dashboard** – Overview of their classes
 - **My Classes** – List of classes they are assigned to
 - **Students in Class** – View students in their assigned class
 - **Manage Marks / Results**
 - Add marks
 - Update marks
 - Delete marks
 - View marks
 - **Profile / Account** – Change password, view details
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Basically:

- Admin handles **system management**: classes, subjects, students, teachers, and result verification.
- Teacher handles **their own class data and student marks**.