



# *Class Scheduling System*

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# *Introduction*

- ✓ A web-based system to manage class schedules.
- ✓ Allows adding classes, subjects, teachers, and scheduling them.
  - ✓ Built using PHP, MySQL, and Bootstrap.
- ✓ Focuses on simplicity, user-friendly UI, and CRUD operations.

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# Tools & Technologies Used

- ✓ Frontend:
  - - HTML
  - - CSS (with Bootstrap 5)
  - - JavaScript (Basic for validation)
- ✓ Backend:
  - - PHP (Core PHP)
- ✓ Database:
  - - MySQL (XAMPP Local Server)
- ✓ Other Tools:
  - - Visual Studio Code
  - - XAMPP (Apache, MySQL)
  - - phpMyAdmin (for DB management)

# Key Features

- ✓ Add, View, Update, Delete classes, teachers, subjects.
- ✓ Create and manage schedules.
- ✓ Schedule conflict checking (time overlaps avoided).
- ✓ User login & logout system (admin user).
- ✓ User-friendly Bootstrap-based UI.
- ✓ Simple navigation dashboard.



# Database Schema Overview

## ✓ Tables:

- users (id, username, password)
- classes (id, class\_name)
- teachers (id, teacher\_name)
- subjects (id, subject\_name)
- schedule (id, class\_id, teacher\_id, subject\_id, day, start\_time, end\_time)

## ✓ Relationships:

- schedule table links classes, teachers, and subjects.
- users table for admin login.

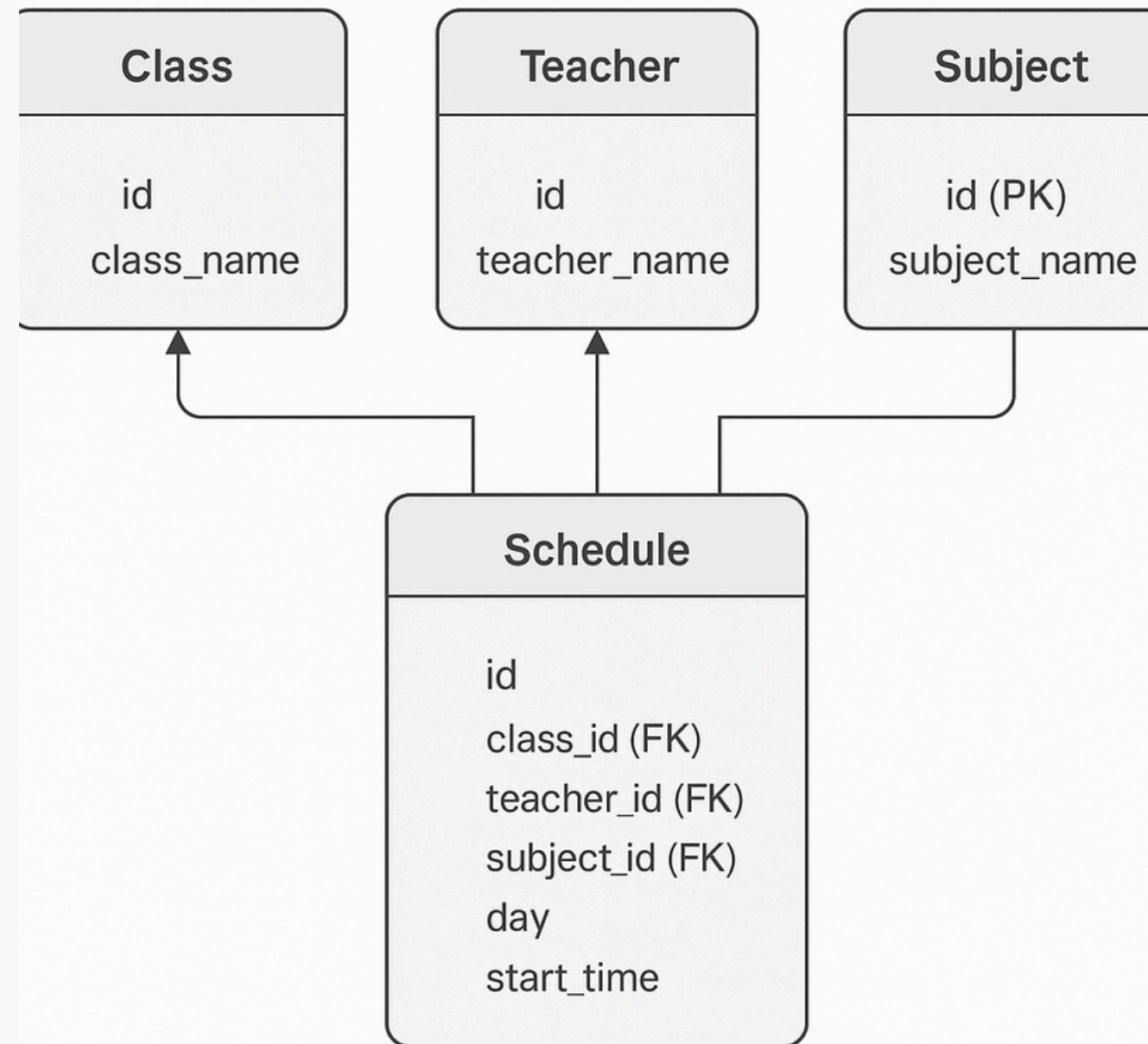
# *Technology Stack*

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- Frontend: HTML, CSS, Bootstrap
- Backend: Flask (Python)
- Database: Oracle (Lightweight)
- Tools: Git, VS Code



# ER Diagram



# Project Flow

- ✓ User Login -> Dashboard
- ✓ Manage classes, subjects, teachers
- ✓ Create schedules (conflict check)
- ✓ View/Edit/Delete schedules
- ✓ Logout



# *UI Screenshots*

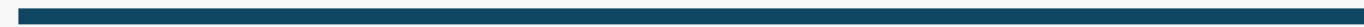
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- ✓ Login Page
- ✓ Dashboard Page
- ✓ Create Schedule Page
- ✓ View Schedule Page

# Security Features

- ✓ Basic session-based login system.
- ✓ Prevents access to pages without login.
- ✓ Secure password checking (plain password or hashed depending on setup).
- ✓ SQL prepared statements to avoid SQL injection.

# Conclusion



- ✓ Successfully implemented basic class scheduling system.
- ✓ Easy to use by admin users.
- ✓ Can be enhanced with:
  - Role-based users (Admin, Teacher)
  - Real-time notifications
  - Reports and exports
- ✓ Scalable to institution level with further improvements.





*Thank you*

