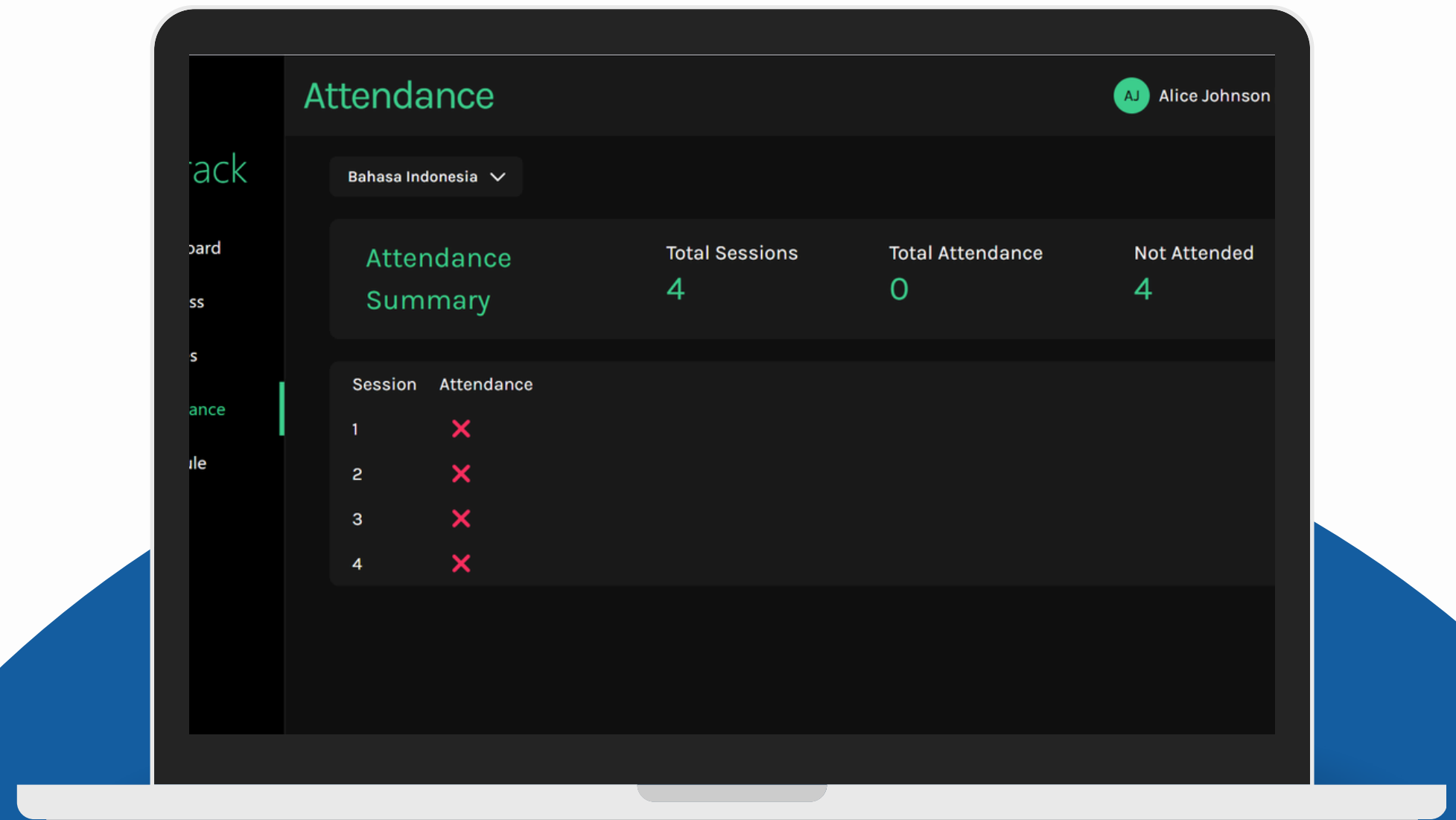
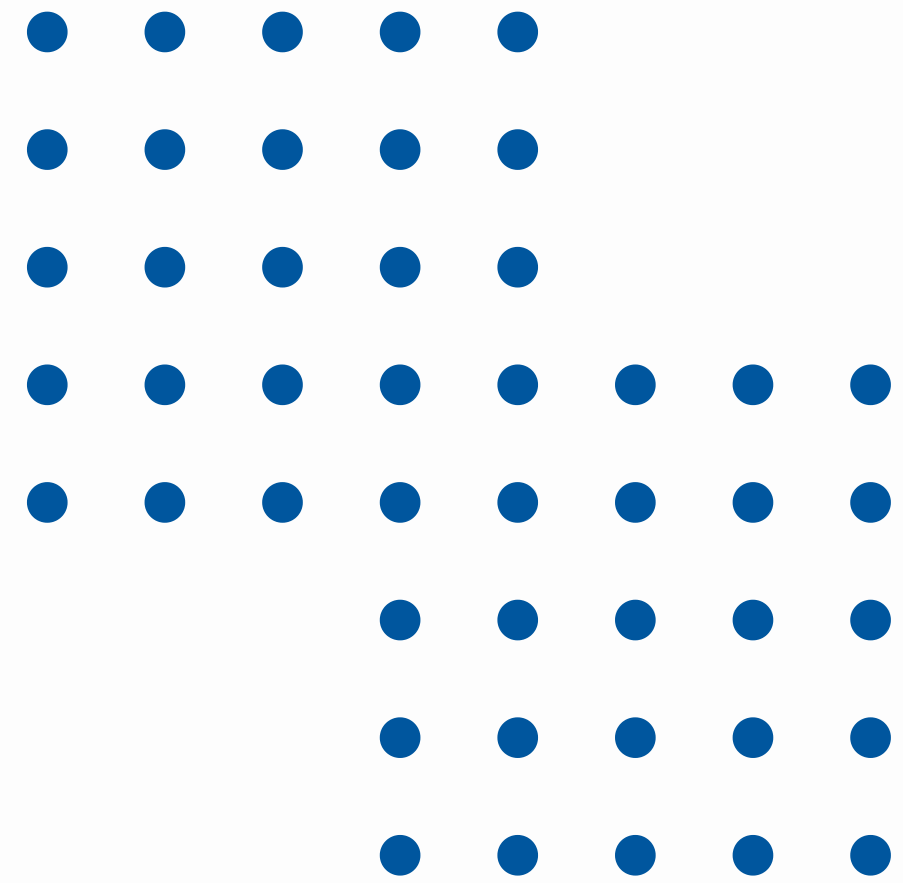


# School Management System

By: Justin, Adrian, Matthew



# Introduction



Streamline academic and  
administrative process

Simplified important managing features

# Student's Features

- View other students' data
- View their
  - Courses
  - Attendance
  - Teacher
  - Classroom
  - Schedule



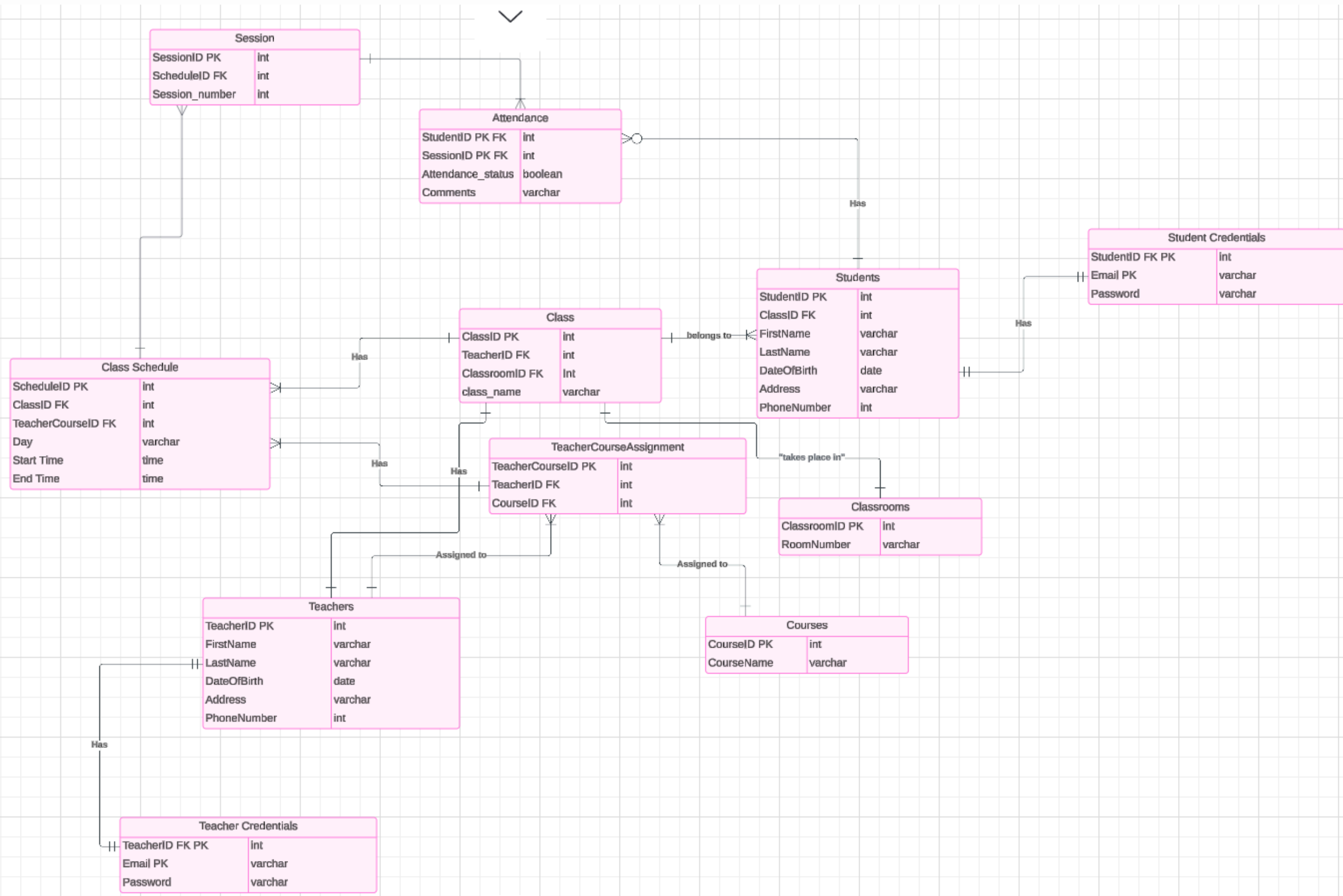
# Teacher's features

- View their
  - Students' data
  - Courses
  - Students' attendance records
  - Classroom
  - Schedule
- Update and Insert attendance data for the students





# **Entity Relationship Diagram**





# Normalization

# Normalization

## 1NF

### First Normal Form

- Atomic Value
- Unique Identifier
- No Repeating Groups

## 2NF

### Second Normal Form

- Is 1NF
- No Partial Dependencies

## 3NF

### Third Normal Form

- Is 2NF
- No Transitive Dependencies





# **Table Structure**

# Table Structure

Table	Column Name	Data Type	Primary Key	Foreign Key	Constraints
Students	StudentID	INT	Yes		not null, auto_increment, unique
	first_name	VARCHAR(50)			not null
	last_name	VARCHAR(50)			not null
	date_of_birth	date			not null
	address	VARCHAR(50)			
	phone_number	INT			
	ClassID	INT		Class(ClassID)	not null
Teachers	TeacherID	INT	Yes		not null, auto_increment, unique
	first_name	VARCHAR(255)			not null
	last_name	VARCHAR(255)			not null
	date_of_birth	date			not null
	address	VARCHAR(50)			
	phone_number	INT			
Class	ClassID	INT	Yes		not null, auto_increment, unique
	class_name	VARCHAR(50)			not null
	TeacherID	INT		Teachers(TeacherID)	not null
	ClassroomID	INT		Classrooms(ClassroomID)	not null

# Table Structure

Table	Column Name	Data Type	Primary Key	Foreign Key	Constraints
Classrooms	ClassroomID	INT	Yes		not null, auto_increment, unique
	room_number	varchar(50)			not null
Courses	CourseID	INT	Yes		not null, auto_increment, unique
	course_name	VARCHAR(50)			not null
Sessions	SessionID	INT	Yes		not null, auto_increment, unique
	session_number	INT			not null
	ScheduleID	INT		ClassSchedule(ScheduleID)	not null
Attendance	SessionID	INT	Yes (Composite)	Sessions(SessionID)	not null
	StudentID	INT	Yes (Composite)	Students(StudentID)	not null
	attendance_status	BOOLEAN			not null
	comments	VARCHAR(255)			
ClassSchedule	ScheduleID	INT	Yes		not null, auto_increment, unique
	ClassID	INT		Class(ClassID)	not null
	TeacherCourseID	INT		TeacherCourseAssignment(TeacherCourseID)	not null
	day_of_week	VARCHAR(10)			not null
	start_time	TIME			not null
	end_time	TIME			not null

# Table Structure

Table	Column Name	Data Type	Primary Key	Foreign Key	Constraints
TeacherCourseAssignment	TeacherCourseID	INT	Yes		not null, auto_increment, unique
	TeacherID	INT		Teachers(TeacherID)	not null
	CourseID	INT			not null
Students Credentials	StudentID	Int	Yes (Composite)		not null
	student_email	varchar(50)	Yes (Composite)		not null
	student_password	varchar(50)			not null
Teachers Credentials	TeacherID	Int	Yes (Composite)	Teachers(TeacherID)	not null
	teacher_email	varchar(50)	Yes (Composite)		not null
	teacher_password	varchar(50)			not null



# User Interface



# SQL Code

**THANK YOU!**