

# **DATABASE DOCS FOR AI INVIGILATING SYSTEM**

## **1. User Table:**

- Attributes:
  - UserID (Primary Key)
  - Username
  - Password (hashed)
  - Role (e.g., admin, invigilator, student)
  - ProfilePhoto
  - FirstName
  - LastName
  - Email
  - Phone
  - Address
  - Gender
  - DateOfBirth

## **2. Exam Table:**

- Attributes:
  - ExamID (Primary Key)
  - ExamName
  - ExamDate
  - StartTime
  - EndTime
  - RoomID (Foreign Key to Room Table)
  - SubjectID (Foreign Key to Subject Table)
  - InstructorID (Foreign Key to Instructor Table)

### **3. Room Table:**

- Attributes:
  - RoomID (Primary Key)
  - RoomName
  - Capacity
  - Building
  - Floor

### **4. Student Table:**

- Attributes:
  - StudentID (Primary Key)
  - FirstName
  - LastName
  - Email
  - Department
  - Year
  - AdvisorID (Foreign Key to Advisor Table)

### **5. Instructor Table:**

- Attributes:
  - InstructorID (Primary Key)
  - FirstName
  - LastName
  - Email
  - Department
  - Title

### **6. Advisor Table**

- Attributes:
  - AdvisorID (Primary Key)

- FirstName
- LastName
- Email
- Department

#### **7. Subject Table**

- Attributes:
  - SubjectID (Primary Key)
  - SubjectName
  - Department

#### **8. ExamRegistration Table**

- Attributes:
  - RegistrationID (Primary Key)
  - ExamID (Foreign Key to Exam Table)
  - StudentID (Foreign Key to Student Table)
  - Status (e.g., registered, confirmed, canceled)

#### **9. ExamAttendance Table:**

- Attributes:
  - AttendanceID (Primary Key)
  - ExamID (Foreign Key to Exam Table)
  - StudentID (Foreign Key to Student Table)
  - AttendanceStatus (e.g., present, absent)

#### **10. SuspicionReport Table**

- Attributes:
  - ReportID (Primary Key)
  - ExamID (Foreign Key to Exam Table)
  - StudentID (Foreign Key to Student Table)
  - Timestamp

- Description (Details of the suspicious behavior)
- ReportedBy (UserID of the invigilator)

#### 11. **VideoRecording Table**

- Attributes:
  - VideoID (Primary Key)
  - ExamID (Foreign Key to Exam Table)
  - Timestamp
  - FilePath (Location of the recorded video file)
  - Duration
  - Resolution

#### 12. **CheatingBehavior Table**

- Attributes:
  - BehaviorID (Primary Key)
  - ReportID (Foreign Key to SuspicionReport Table)
  - BehaviorType (e.g., object recognition, gesture recognition)
  - Details (Description of the detected cheating behavior)

#### 13. **Notification Table**

- Attributes:
  - NotificationID (Primary Key)
  - UserID (Foreign Key to User Table)
  - Message
  - Timestamp
  - Status (e.g., unread, read)