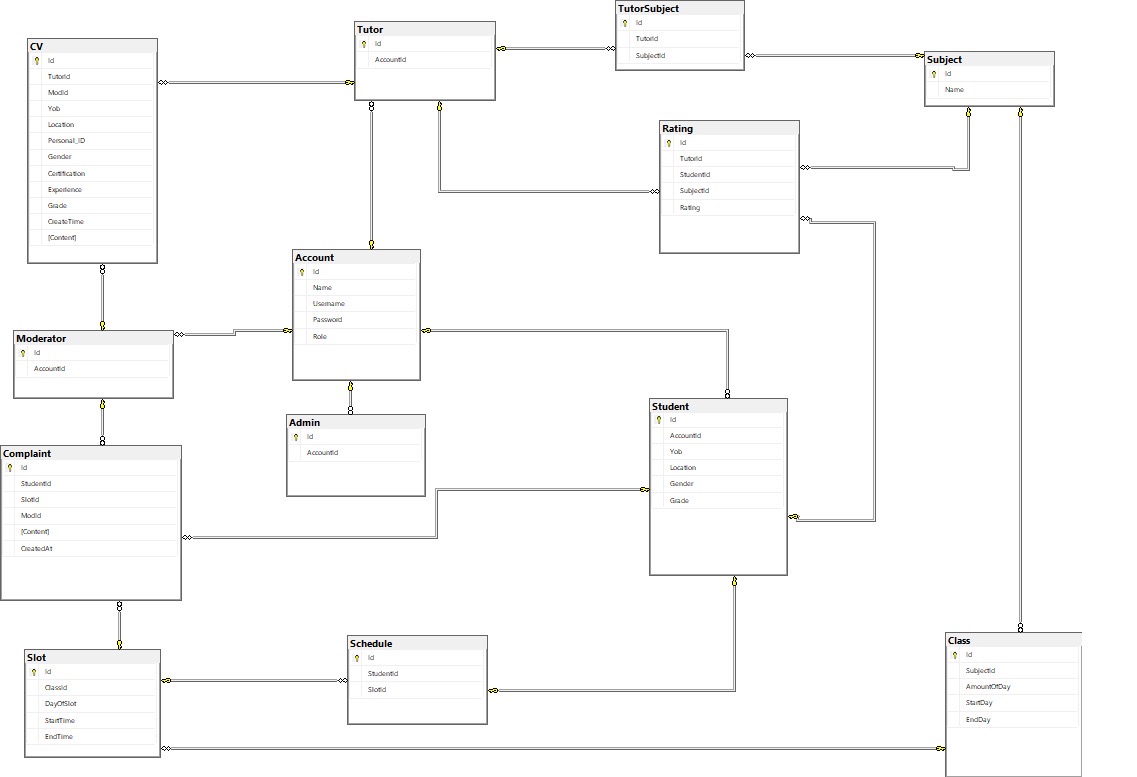
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# 1.ERD/DB DIAGRAM(Trúc, Linh)



**2.FUNCIONAL REQUIREMENT**

#### 1. Guest Access and Limited Features

**1.1 Guests can register for an account.**

**1.2 Guests can log in to the system.**

**1.3 Guests have limited access to system features until they become authenticated users.**

#### 2. User Registration and Authentication

**2.1 The system shall allow users to register with a valid email, password, and necessary personal information.**

**2.2 The system shall allow users to log in using their registered email and password. 2.3 The system shall provide a logout option for authenticated users.**

**2.4 The system shall allow users to view and update their profile information.**

#### 3. Student-Tutor Interaction

**3.1 The system shall allow students to search for tutors by name and subject.**

**3.2 The system shall display tutor profiles to students, including credentials and qualifications.**

**3.3 The system shall allow students to chat with tutors for initial inquiries.**

**3.4 The system shall display the teaching schedule of tutors to students.**

**3.5 The system shall allow students to register with tutors for tutoring sessions.**

**3.6 The system shall allow students to rate and leave feedback for tutors after sessions.**

**3.7 The system shall allow students to view their registration requests.**

#### 4. Tutor Profile and Service Management

**4.1 The system shall allow tutors to fill out an application form including educational qualifications, specialized skills, and personal identification information.**

**4.2 The system shall allow tutors to view student registration requests.**

**4.3 The system shall allow tutors to confirm or reject student requests.**

**4.4 The system shall allow tutors to view and update their teaching schedule.**

**4.5 The system shall allow tutors to view information about their students.**

**4.6 The system shall allow tutors to create rental services by the hour.**

**4.7 The system shall allow tutors to upload academic videos to advertise their services.**

#### 5. Content Moderation and Complaint Handling

**5.1 The system shall allow moderators to check and approve student enrollment requests.**

**5.2 The system shall allow moderators to review tutor applications for completeness and validity.**

**5.3 The system shall allow moderators to manage feedback by viewing, deleting inappropriate feedback, and receiving feedback for review.**

#### 6. Administrative Management

**6.1 The system shall allow administrators to manage user accounts including updates and deletions.**

**6.2 The system shall allow administrators to oversee and maintain the overall system functionality.**

**3.USECASE LIST(Trúc, Linh)**

**Use Case List for On-Demand Tutor System:**

**1. Guest:**

**UC01: View Tutor List**

**Description: Unregistered users can view the list of tutors and their basic information.**

**Actors: Guest**

**Preconditions: None**

**Main Flow:**

* **Guest accesses the website.**
* **Guest selects the tutor list.**
* **The system displays the list of tutors with basic information.**

**Postconditions: Guest can view tutor information.**

**2. Student:**

**UC02: Register Account**

**Description: Users create a student account on the system.**

**Actors: Guest**

**Preconditions: None**

**Main Flow:**

* **Guest selects "Register".**
* **Guest fill in personal information and create an account.**
* **The system verifies the information and creates an account.**

**Postconditions: Student account is created.**

**UC03: Log In**

**Description: Students log in to the system.**

**Actors: Student**

**Preconditions: The student already has an account.**

**Main Flow:**

* **Students enter username and password.**
* **The system authenticates the login information.**
* **The system redirects to the student's homepage.**

**Postconditions: Student successfully logs into the system.**

**UC04: Search Tutor by Name or Subject**

**Description: Students search for tutors based on name or subject.**

**Actors: Student**

**Preconditions: The student is logged in.**

**Main Flow:**

* **Student enter the tutor's name or subject in the search box.**
* **The system displays the relevant search results.**

**Postconditions: Student finds the desired tutor.**

**UC05: Hire Tutor**

**Description: Students hire a tutor to help with their study problems.**

**Actors: Student**

**Preconditions: The student has found the desired tutor.**

**Main Flow:**

* **Student selects a tutor from the list.**
* **Students select the time and service for hire.**
* **The system confirms the information and schedules the session.**

**Postconditions: Tutor is successfully hired.**

**UC06: Rate and Provide Feedback for Tutor**

**Description: Students leave ratings and feedback after hiring a tutor.**

**Actors: Student**

**Preconditions: The student has used the tutor's service.**

**Main Flow:**

* **Student selects the hired tutor.**
* **Students leave a rating and feedback.**
* **The system stores and displays the rating and feedback.**

**Postconditions: Rating and feedback are successfully stored.**

**3. Tutor:**

**UC07: Register Account**

**Description: Tutors create an account on the system.**

**Actors: Guest**

**Preconditions: None**

**Main Flow:**

* **Guest selects "Register".**
* **Guests fill in personal information and creates an account.**
* **The system verifies the information and creates an account.**

**Postconditions: Tutor account is created.**

**UC08: Log In**

**Description: Tutors log in to the system.**

**Actors: Tutor**

**Preconditions: The tutor already has an account.**

**Main Flow:**

* **Tutor enters username and password.**
* **The system authenticates the login information.**
* **The system redirects to the tutor's homepage.**

**Postconditions: Tutor successfully logs into the system.**

**UC09: Create Hourly Tutoring Service**

**Description: Tutors create a service to support students with subjects.**

**Actors: Tutor**

**Preconditions: The tutor is logged in.**

**Main Flow:**

* **Tutor enters information about the service (hours, subject, price).**
* **The system stores and displays the service.**

**Postconditions: Service is successfully created.**

**UC10: Upload Academic Videos**

**Description: Tutors upload videos to advertise their service.**

**Actors: Tutor**

**Preconditions: The tutor is logged in.**

**Main Flow:**

* **Tutor selects to upload a video.**
* **Tutor enters information about the video and uploads it.**
* **The system stores and displays the video.**

**Postconditions: Video is successfully uploaded.**

**4. Moderator:**

**UC11: Manage Content and Complaints**

**Description: Moderators manage content and handle complaints on the website.**

**Actors: Moderator**

**Preconditions: The moderator is logged in.**

**Main Flow:**

* **Moderator accesses the content management section.**
* **Moderator reviews and handles complaints.**

**Postconditions: Content and complaints are managed.**

**5. Administrator:**

**UC12: Manage System**

**Description: Administrators manage the entire system.**

**Actors: Administrator**

**Preconditions: The administrator is logged in.**

**Main Flow:**

* **Administrator accesses the system management section.**
* **Administrator performs management functions (create, edit, delete accounts, services).**

**Postconditions: System is effectively managed.**

# 4.Front End Details

# Home

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# Login

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# Register

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# Student page

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# Tutor page

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# Information Tutor

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# Information Student

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# Student time table

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# Tutor page

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# Tutor calander

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# Admin

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# Moderator

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# Feedback

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# 5. Technical Requirements (TRD)

**Sprint 1: Setup**

### Login

1. **T1: Username is required.**
2. **T2: Special characters are not allowed in the username.**
3. **T3: Characters are not allowed (only numbers, if applicable).**
4. **T3.1: The first character cannot be a space.**
5. **T4: Password is required.**
6. **T5: Password must contain at least one special character.**
7. **T6: Password must contain at least one number.**
8. **T7: Password must contain at least one uppercase letter.**
9. **T8: Password must be at least 8 characters long.**
10. **T9: The first character of the password cannot be a space.**

### Logout

1. **T1: Successful logout redirects to login page.**

### View Profile

1. **T1: Profile information is displayed correctly.**

### Update Profile

1. **T1: Name is required for update.**
2. **T2: Email must be in a valid format.**
3. **T3: Profile updated successfully.**

### Register Student

1. **T1: Name is required.**
2. **T2: Email is required.**
3. **T3: Email must be in a valid format.**
4. **T4: Password is required.**
5. **T5: Password must contain at least one special character.**
6. **T6: Password must contain at least one number.**
7. **T7: Password must contain at least one uppercase letter.**
8. **T8: Password must be at least 8 characters long.**
9. **T9: The first character of the password cannot be a space.**
10. **T10: Username is required.**
11. **T11: Username must be unique.**
12. **T12: Username must not contain special characters.**
13. **T13: Username must be between 3 and 20 characters long.**

### Search Subject

1. **T1: Subject name is required for search.**
2. **T2: Valid subject name returns results.**
3. **T3: Invalid subject name returns no results.**

### View Tutor

1. **T1: Tutor information is displayed correctly.**

### Chat

1. **T1: Chat initiates successfully.**
2. **T2: Message is sent successfully.**
3. **T3: Message is received successfully.**

### Register Tutor

1. **T1: Name is required.**
2. **T2: Email is required.**
3. **T3: Email must be in a valid format.**
4. **T4: Password is required.**
5. **T5: Password must contain at least one special character.**
6. **T6: Password must contain at least one number.**
7. **T7: Password must contain at least one uppercase letter.**
8. **T8: Password must be at least 8 characters long.**
9. **T9: The first character of the password cannot be a space.**
10. **T10: Username is required.**
11. **T11: Username must be unique.**
12. **T12: Username must not contain special characters.**
13. **T13: Username must be between 3 and 20 characters long.**
14. **T14: Subject expertise is required.**

### View Teaching Schedule

1. **T1: Teaching schedule is displayed correctly.**
2. **T2: No schedule available message is shown when there is no schedule.**

### View Registration Requests

1. **T1: Registration requests are displayed correctly.**
2. **T2: No requests available message is shown when there are no requests.**

### Confirm Request

1. **T1: Request confirmation is successful.**
2. **T2: Request confirmation fails with an error message if there is an issue.**

### Fill Information Application Form

1. **T1: All required fields are mandatory.**
2. **T2: Form submission is successful with valid data.**

### Update Information Application Form

1. **T1: All required fields are mandatory for update.**
2. **T2: Form update is successful with valid data.**

### View Feedback

1. **T1: Feedback is displayed correctly.**

### Delete Feedback

1. **T1: Feedback deletion is successful.**
2. **T2: Feedback deletion fails with an error message if there is an issue.**

### Manage Feedback

1. **T1: Feedback management options are displayed correctly.**
2. **T2: Feedback management actions are successful.**

### Rating

1. **T1: Rating is submitted successfully.**
2. **T2: Rating submission fails with an error message if there is an issue.**

### View Content for Moderation

1. **T1: Content for moderation is displayed correctly.**

### Approve or Reject Content

1. **T1: Content approval is successful.**
2. **T2: Content rejection is successful.**
3. **T3: Content approval/rejection fails with an error message if there is an issue.**

### View Complaints

1. **T1: Complaints are displayed correctly.**

### Take Action on Complaints

1. **T1: Complaint action is successful.**
2. **T2: Complaint action fails with an error message if there is an issue.**

### Manage Account

1. **T1: Account management options are displayed correctly.**

### Locked Account

1. **T1: Locked account cannot log in.**
2. **T2: Locked account displays correct status.**

### Unlocked Account

1. **T1: Unlocked account can log in.**
2. **T2: Unlocked account displays correct status.**

### View Student Information

1. **T1: Student information is displayed correctly.**

### Check Request Enroll Student

1. **T1: Enrollment requests are displayed correctly.**
2. **T2: No requests available message is shown when there are no requests.**

### Manage Payments

1. **T1: Payment management options are displayed correctly.**

### Process Payments

1. **T1: Payment processing is successful.**
2. **T2: Payment processing fails with an error message if there is an issue.**

### Issue Refunds

1. **T1: Refund is issued successfully.**
2. **T2: Refund issuance fails with an error message if there is an issue.**

### View Payments History

1. **T1: Payments history is displayed correctly.**

**Sprint 2: Business Flow**

### UC-03: Logout

**Test Case T01: Successful Logout**

### UC-04: View Profile

**Test Case T30: User must be able to view their profile information.**

**Test Case T31: Profile details must include personal information such as name, contact information, and preferences.**

**Test Case T32: Profile information must be retrieved from the database securely.**

### UC-05: Update Profile

**Test Case T33: Successful Profile Update**

**Test Case T34: Update Profile with Invalid Data**

### UC-06: Search Subject

**Test Case T35: Successful Subject Search**

### UC-07: View Tutor

**Test Case T36: Successful Tutor Information View**

### UC-08: Chat

**Test Case T37: Successful Chat Initiation**

### UC-09: View Teaching Schedule

**Test Case T38: Successful Viewing of Teaching Schedule**

### UC-12: View Registration Requests

**Test Case T39: Successful Viewing of Registration Requests**

### UC-13: Confirm Request

**Test Case T40: Successful Confirmation of Student Requests**

### UC-18: View Feedback

**Test Case T41: Successful Feedback View**

### UC-19: Delete Feedback

**Test Case T42: Successful Feedback Deletion**

### UC-21: Rating

**Test Case T43: Successful Rating Submission**

### UC-28: View Student Information

**Test Case T44: Successful Viewing of Student Information**

# 6. SCREEN FLOW

**7. BUSSINESS RULE**