



Master of Science in Information & Technology

Project : Althub

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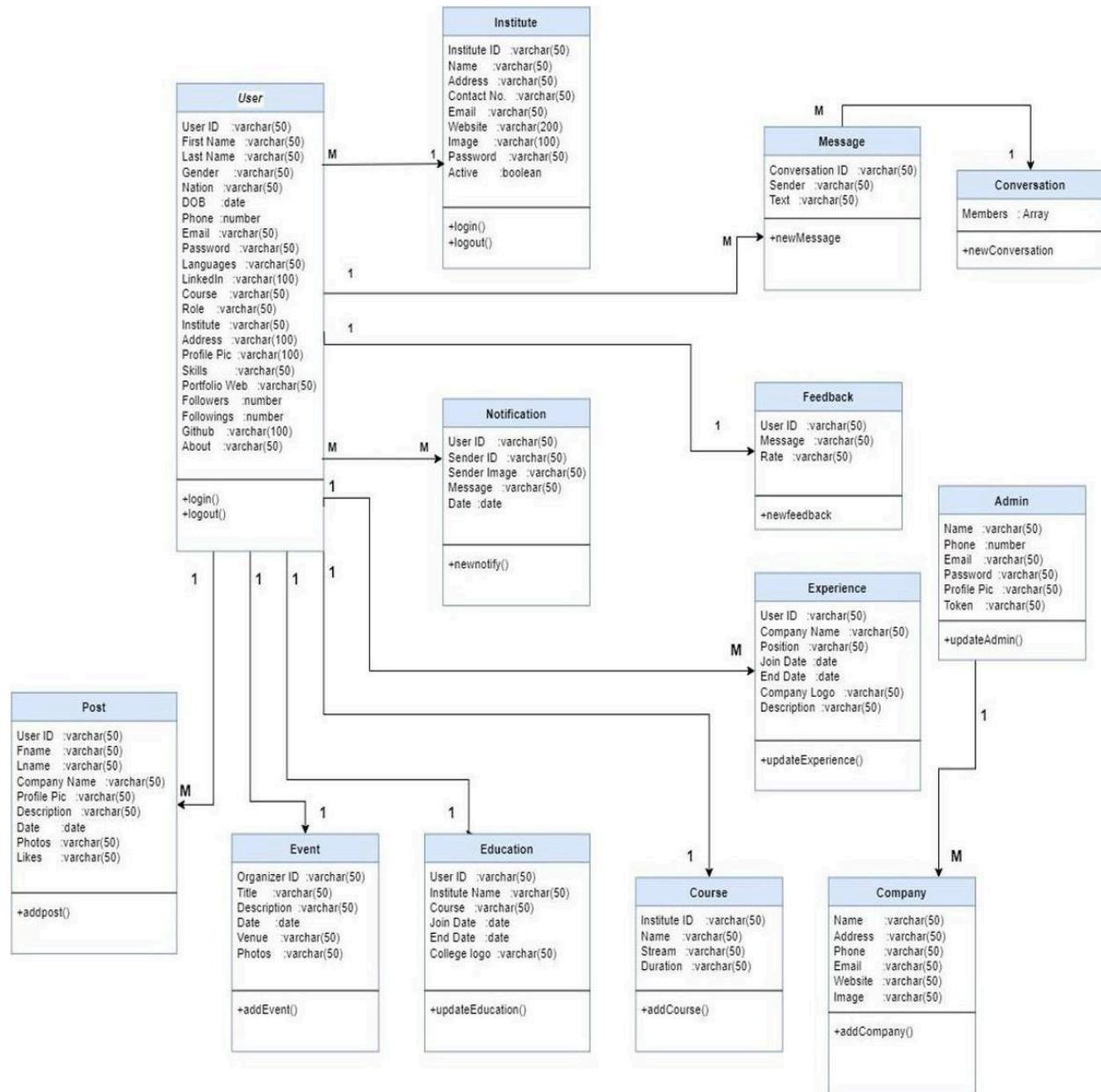
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Course: Software Design & Testing

**Under the Guidance of,
Ankush Chander**



Class Diagram:



1. Entities (Classes) & Attributes

Each box in the diagram is an entity/class. Attributes are listed inside.

User

- **Attributes:**
User ID, First Name, Last Name, Gender, Nation, DOB, Phone, Email, Password, Languages, LinkedIn, Course, Institute, Address, Skills, Portfolio Web, Followers, Followings, Github, About.
 - **Behavior:** +login(), +logout()
-

Institute

- **Attributes:**
Institute ID, Name, Address, Contact no., Email, Website, Image, Password, Active.
 - **Behavior:** +login(), +logout()
-

Post

- **Attributes:**
User ID, Frame, Lname, Company Name, Profile Pic, Description, Date, Photos, Likes.
 - **Behavior:** +addpost()
-

Event

- **Attributes:**
Organizer ID, Title, Description, Date, Venue, Photos.
 - **Behavior:** +addEvent()
-

Notification

- **Attributes:**
User ID, Sender ID, Sender Image, Message, Date.
- **Behavior:** +newnotify()

Message

- **Attributes:**
Conversation ID, Sender, Text.
 - **Behavior:** +newMessage()
-

Conversation

- **Attributes:**
Members (Array).
 - **Behavior:** +newConversation()
-

Feedback

- **Attributes:**
User ID, Message, Rate.
 - **Behavior:** +newfeedback()
-

Experience

- **Attributes:**
User ID, Company Name, Position, Join Date, End Date, Company Logo, Description.
 - **Behavior:** +updateExperience()
-

Education

- **Attributes:**
User ID, Institute Name, Course, Join Date, End Date, College Logo.
 - **Behavior:** +updateEducation()
-

Course

- **Attributes:**
Institute ID, Name, Stream, Duration.
- **Behavior:** +addCourse()

Company

- **Attributes:**
Company ID, Name, Address, Phone, Email, Website, Image.
 - **Behavior:** +addCompany()
-

Admin

- **Attributes:**
Name, Phone, Email, Password, Profile Pic, Token.
- **Behavior:** +updateAdmin()

2. Relationships & Cardinalities

1. **User – Post**
 - **Relationship:** One User can create many Posts.
 - **Cardinality:** 1 : M
2. **User – Event**
 - **Relationship:** One User can organize many Events.
 - **Cardinality:** 1 : M
3. **User – Notification**
 - **Relationship:** One User can receive many Notifications, and one Notification is related to a specific user.
 - **Cardinality:** 1 : M
4. **User – Feedback**
 - **Relationship:** One User can give many Feedbacks.
 - **Cardinality:** 1 : M
5. **User – Experience**
 - **Relationship:** One User can have many Experiences.
 - **Cardinality:** 1 : M
6. **User – Education**
 - **Relationship:** One User can have many Education records.
 - **Cardinality:** 1 : M
7. **Institute – Course**
 - **Relationship:** One Institute can offer many Courses.
 - **Cardinality:** 1 : M
8. **User – Institute**
 - **Relationship:** A User is associated with one Institute, but an Institute can have many Users.
 - **Cardinality:** M : 1
9. **Company – Experience**
 - **Relationship:** A Company can be linked to many Experiences.
 - **Cardinality:** 1 : M
10. **Conversation – Message**
 - **Relationship:** A Conversation can have many Messages, but each Message belongs to one Conversation.
 - **Cardinality:** 1 : M
11. **Admin – Feedback**
 - **Relationship:** Admin oversees many Feedbacks.
 - **Cardinality:** 1 : M
12. **Admin – Experience**
 - **Relationship:** Admin manages many Experience records.
 - **Cardinality:** 1 : M
13. **Admin – Company**
 - **Relationship:** Admin can manage many Companies.
 - **Cardinality:** 1 : M

Thank You