

# Web Framework Development

Individual Project

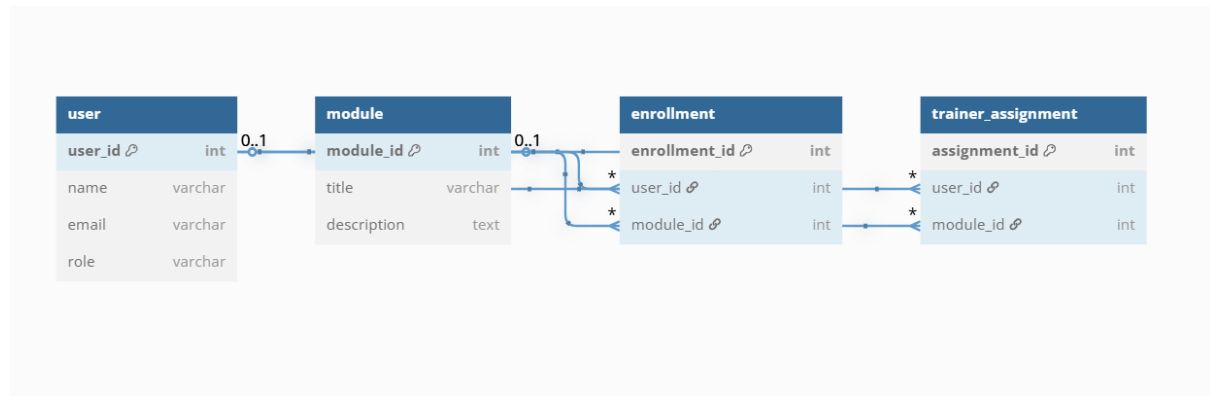
Deliverable 2

Design 2 – ERD

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## Entity Relationship Diagram – Training System



**Figure: Entity Relationship Diagram for Training Module System**

This ERD models the core database structure for the agriculture training module system for this assignment. It outlines how users, modules, enrollments, and trainer assignments are related.

### Entities and Attributes

- **User**
  - user\_id (Primary Key)
  - name, email, role  
Each user in the system has a role such as admin, trainer, or student.
- **Module**
  - module\_id (Primary Key)
  - title, description  
A module represents a training course created by the admin.
- **Enrollment**
  - enrollment\_id (Primary Key)
  - user\_id (Foreign Key)
  - module\_id (Foreign Key)  
Links students to the modules they are enrolled in.
- **Trainer\_Assignment**
  - assignment\_id (Primary Key)
  - user\_id (Foreign Key)
  - module\_id (Foreign Key)  
Connects trainers to the modules they are assigned to deliver.

## Relationships

- A user can enroll in many modules, and each module can have many enrolled users → many-to-many, handled by the Enrollment table.
- A user (trainer) can be assigned to multiple modules, and each module can have multiple trainers → many-to-many, handled by Trainer\_Assignment.
- The use of enrollment\_id and assignment\_id as primary keys allows tracking and managing individual links effectively

Resources used to create diagram : [dbdiagram.io](https://dbdiagram.io)