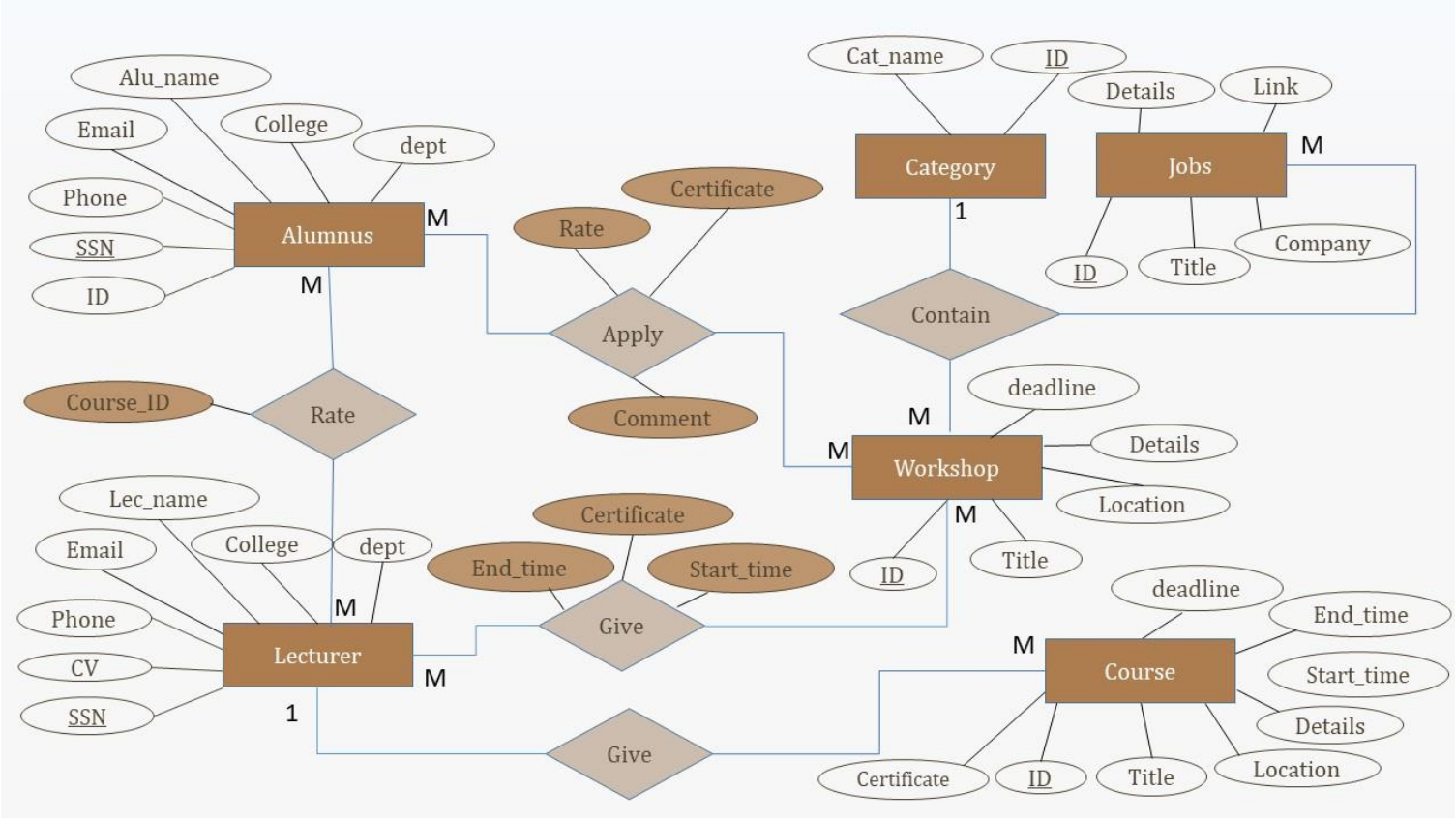
- **ER Diagram :**



Entity : users		
Field Name	**Data Type**	**Constraint**
User_ID	Number	Primary Key
User_Type	enum	(admin-lecturer-alumnus)
username	text	
password	text	

Entity : Category		
Field Name	**Data Type**	**Constraint**
Cat_ID	Number	Primary Key
Cat_Name	Text	

Entity : Lecturer		
Field Name	**Data Type**	**Constraint**
SSN	Number	Primary Key
Lec_name	Text	
college	Text	
department	Text	
CV	Text	
Email	Text	
Phone	Text	
rate	number	
User_ID	number	Foreign key

Entity : Courses		
Field Name	**Data Type**	**Constraint**
Course_ID	Number	Primary Key
Title	Text	
Location	Text	
deadline date	Date	
Start Time	Date	
End Time	Date	
Cat_ID	Number	Foreign key
Lecturer_ID	Number	Foreign key

Lecturer_certificate	Text	

Entity : Workshop		
Field Name	**Data Type**	**Constraint**
Workshop_ID	Number	Primary Key
Title	Text	
Location	Text	
deadline date	Date	
Cat_ID	Number	Foreign key

Entity : WorkShop_Lecturers		
Field Name	**Data Type**	**Constraint**
Workshop_ID	Number	Foreign key
Lecturer_ID	Number	Foreign key
Lecturer_certificate	Text	
Start Time	Date	
End Time	Date	

Entity : Alumnus		
Field Name	**Data Type**	**Constraint**
SSN	Number	Primary Key
Alu_name	Text	
college	Text	
department	Text	
ID	Text	
Email	Text	

Phone	Text	
User_ID	number	Foreign key

Entity : alumnus courses rate		
Field Name	**Data Type**	**Constraint**
SSN	Number	Foreign Key
Course_ID	Text	Foreign Key
rate	number	

Entity : alumnus courses Comments		
Field Name	**Data Type**	**Constraint**
SSN	Number	Foreign Key
Course_ID	Text	Foreign Key
Comment	Text	

Entity : alumnus course certificates		
Field Name	**Data Type**	**Constraint**
SSN	Number	Foreign Key
Course_ID	Text	Foreign Key
certificate	Text	

Entity : Lecturer course rate		
Field Name	**Data Type**	**Constraint**
SSN	Number	Foreign Key
Lecturer_ID	Number	Foreign Key
Course_ID	Number	Foreign Key

rate	number	