

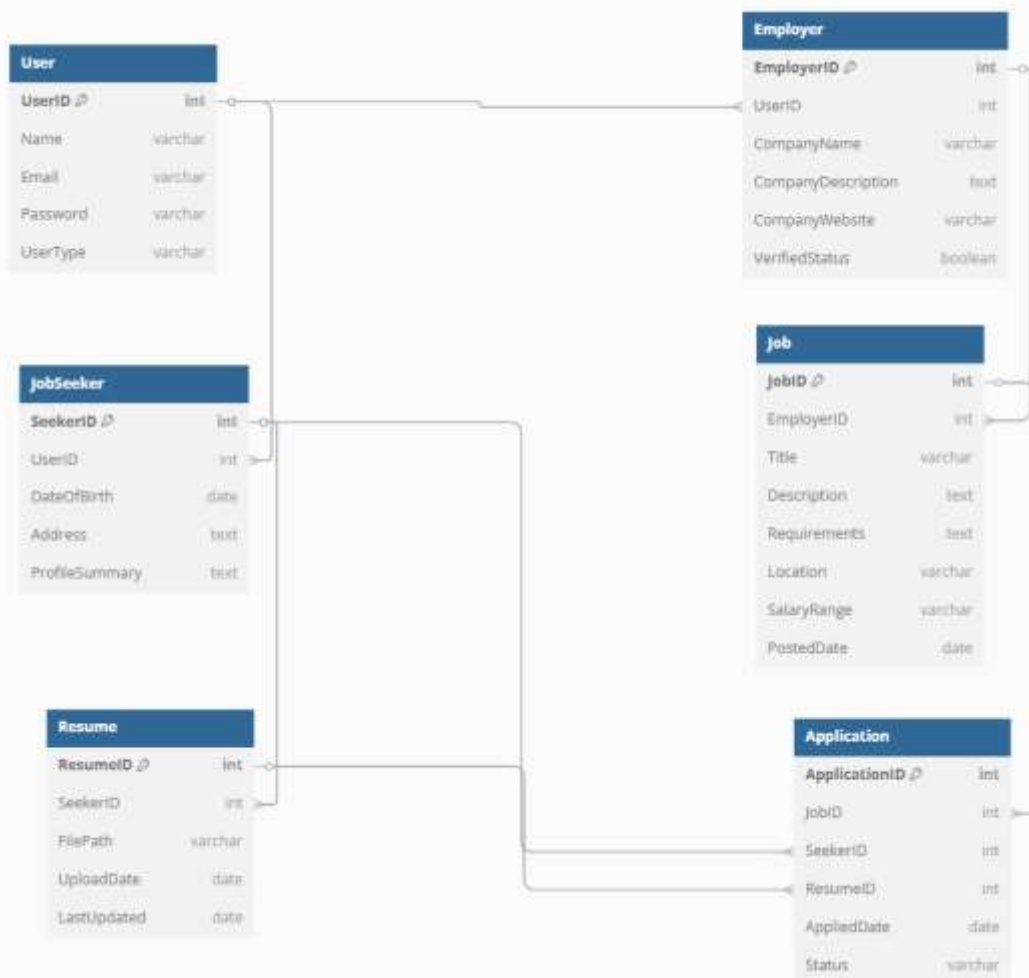
## Key Milestone 2:

### DBMS Lab Project Normalized Relational Schema

#### Group Members:

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1: Convert your project conceptual schema into relational schema. Show converted relational schema.



**2: Normalize the relational schema step-wise into 3NF relations (i.e. third normal form).**

## **1NF (First Normal Form)**

1NF requires:

- Atomic values (no multivalued or composite attributes)
- Unique rows

All relations already use atomic attributes. So, the schema is in **1NF**.

## **2NF (Second Normal Form)**

2NF requires:

- Be in 1NF
- No partial dependency (non-key attributes depend on whole primary key)

All relations have simple (single-attribute) primary keys:

- UserID, SeekerID, EmployerID, etc.

Thus, **no partial dependencies exist**, and schema is in **2NF**.

## **3NF (Third Normal Form)**

3NF requires:

- Be in 2NF
- No transitive dependency (non-prime attribute depends only on the key)

Thus, all relations satisfy **3NF**.

## USER

<u>User_ID</u>	Name	Email	Password	UserType
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## Employer

<u>Employee_ID</u>	<u>User_ID</u>	Company_Name	Company_Discription	Company_website	Verified_status
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## Jobseekers

<u>Seeker_ID</u>	<u>User_ID</u>	Date_Of_birth	Address	Profile_Summary
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## Job

<u>Job_ID</u>	<u>Employee_ID</u>	Title	Description	Requirement	Location	Salary_range	Posted_Date
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## Resume

<u>Resume_ID</u>	<u>Seeker_ID</u>	File_Path	Upload_Date	Last_Updated
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## Application

<u>Application_ID</u>	<u>Job_ID</u>	<u>Seeker_ID</u>	<u>Resume_ID</u>	Applied_Date	Status
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