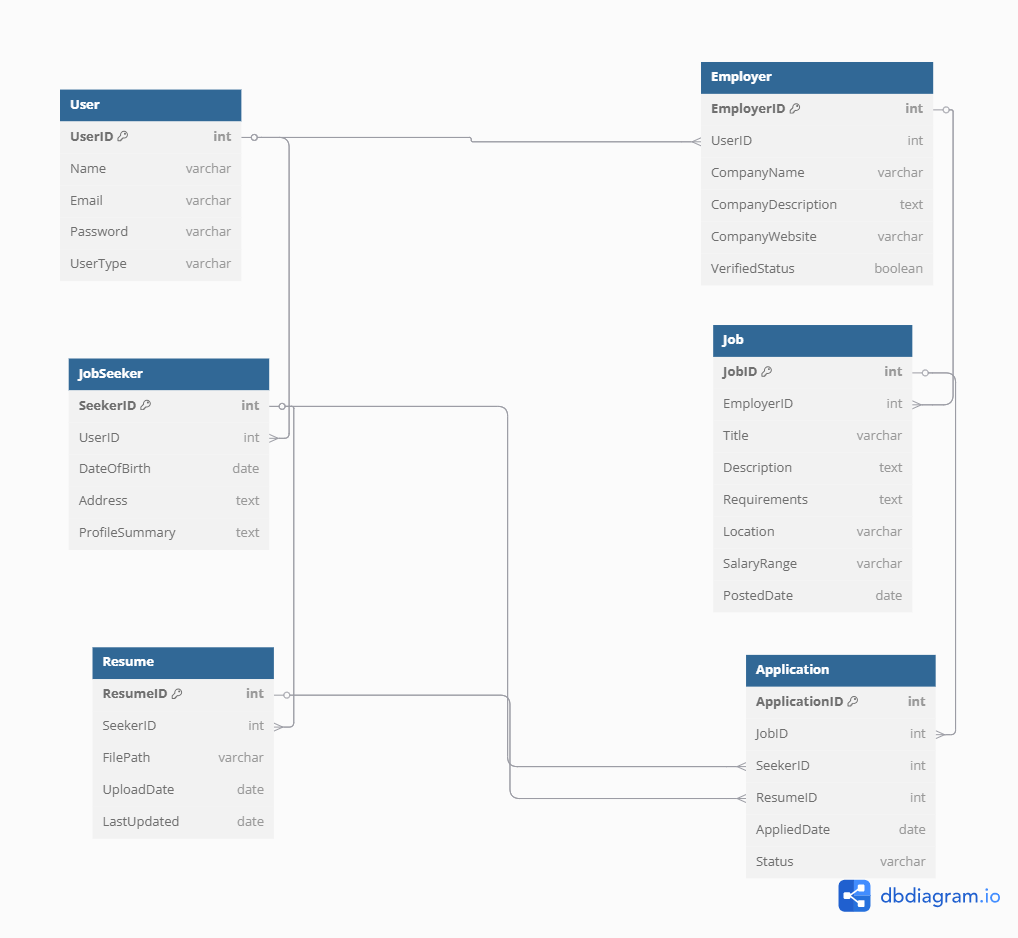
# **Key Milestone 2:**

# **DBMS Lab Project Normalized Relational Schema**

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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**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| User\_ID | Name | Email | Password | UserType |

**Employer**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employe\_ID | User\_ID | Company\_Name | Company\_Discription | Company\_website | Verified\_status |

**Jobseekers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Seeker\_ID | User\_ID | Date\_Of\_birth | Address | Profile\_Summary |

**Job**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Job\_ID | Employe\_ID | Title | Description | Requirement | Location | Salary\_range | Posted\_Date |

**Resume**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resume\_ID | Seeker\_ID | File\_Path | Upload\_Date | Last\_Updated |

**Application**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Application\_ID | Job\_ID | Seeker\_ID | Resume\_ID | Applied\_Date | Status |