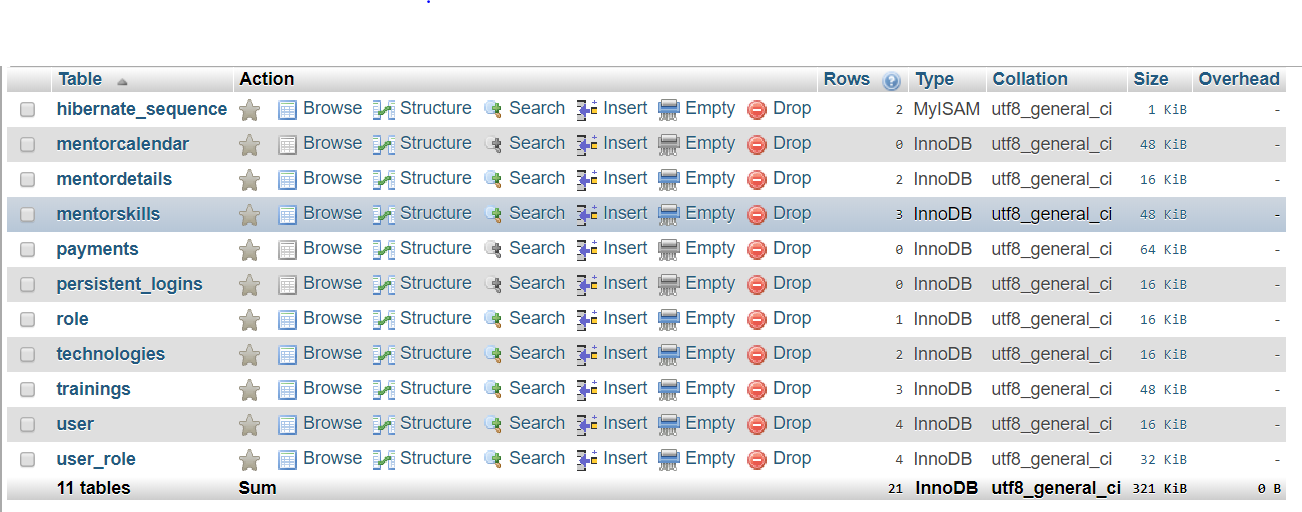
Database & Integration Layer

Technologies

|  |  |  |
| --- | --- | --- |
| Technologies |  |  |
| Java Stack | Hibernate | 4.X |
|  | Spring Restful |  |
| DB | MySql/ MariaDB | 10.1.38-MariaDB |

DB Tables:



DB Dictionary:

**mentorcalendar**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| start\_time | time | No |  |  |  |  |
| end\_time | time | No |  |  |  |  |
| mentor\_id | int(11) | No |  | user -> id |  |  |
| training\_id | int(11) | No |  | trainings -> id |  |  |
| training\_date | date | No |  |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | id | 0 | A | No |  |
| training\_id | BTREE | No | No | training\_id | 0 | A | No |  |
| mentorcalendar\_ibfk\_1 | BTREE | No | No | mentor\_id | 0 | A | No |  |

**mentordetails**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| mentor\_id *(Primary)* | int(11) | No |  | user -> id |  |  |
| expertise | varchar(255) | No |  |  |  |  |
| experience | float | No |  |  |  |  |
| rating | float | No |  |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | mentor\_id | 2 | A | No |  |

**mentorskills**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| mentor\_id | int(11) | No |  | user -> id |  |  |
| tech\_id | int(11) | No |  | technologies -> id |  |  |
| experience | float | No |  |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | id | 2 | A | No |  |
| tech\_id | BTREE | No | No | tech\_id | 2 | A | No |  |
| mentorskills\_ibfk\_1 | BTREE | No | No | mentor\_id | 2 | A | No |  |

**payments**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| candidate\_id | int(11) | No |  | user -> id |  |  |
| mentor\_id | int(11) | No |  | user -> id |  |  |
| amount | int(11) | No |  |  |  |  |
| training\_id | int(11) | No |  | trainings -> id |  |  |
| transactionsDate | datetime | No |  |  |  |  |
| transactionsid | varchar(255) | No |  |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | id | 0 | A | No |  |
| training\_id | BTREE | No | No | training\_id | 0 | A | No |  |
| payments\_ibfk\_1 | BTREE | No | No | mentor\_id | 0 | A | No |  |
| payments\_ibfk\_2 | BTREE | No | No | candidate\_id | 0 | A | No |  |

**persistent\_logins**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| username | varchar(64) | No |  |  |  |  |
| series *(Primary)* | varchar(64) | No |  |  |  |  |
| token | varchar(64) | No |  |  |  |  |
| last\_used | timestamp | No | CURRENT\_TIMESTAMP |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | series | 0 | A | No |  |

**role**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| role\_id *(Primary)* | int(11) | No |  |  |  |  |
| role | varchar(255) | Yes | *NULL* |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | role\_id | 0 | A | No |  |

**technologies**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| name | varchar(255) | No |  |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | id | 2 | A | No |  |

**trainings**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| name | varchar(255) | No |  |  |  |  |
| tech\_id | int(11) | No |  | technologies -> id |  |  |
| start\_date | date | No |  |  |  |  |
| end\_date | date | No |  |  |  |  |
| mentor\_id | int(11) | No |  | user -> id |  |  |
| status | varchar(255) | No |  |  |  |  |
| email | varchar(255) | Yes | *NULL* |  |  |  |
| last\_date | datetime | Yes | *NULL* |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | id | 3 | A | No |  |
| tech\_id | BTREE | No | No | tech\_id | 3 | A | No |  |
| trainings\_ibfk\_2 | BTREE | No | No | mentor\_id | 3 | A | No |  |

**user**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| firstname | varchar(255) | No |  |  |  |  |
| lastname | varchar(255) | No |  |  |  |  |
| email | varchar(255) | No |  |  |  |  |
| password | varchar(255) | No |  |  |  |  |
| active | int(11) | Yes | *NULL* |  |  |  |
| is\_mentor | int(11) | Yes | 0 |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | id | 2 | A | No |  |

**user\_role**

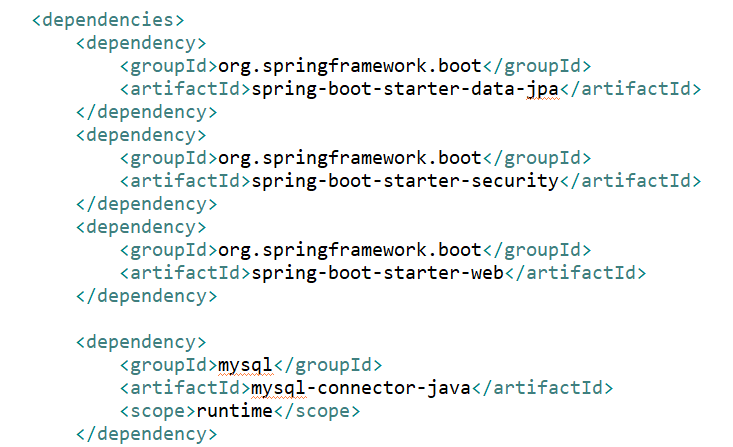
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| user\_id *(Primary)* | int(11) | No |  | user -> id |  |  |
| role\_id *(Primary)* | int(11) | No |  | role -> role\_id |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | user\_id | 2 | A | No |  |
| role\_id | 2 | A | No |
| user\_role\_key | BTREE | No | No | role\_id | 2 | A | No |  |

API Integration with DB:

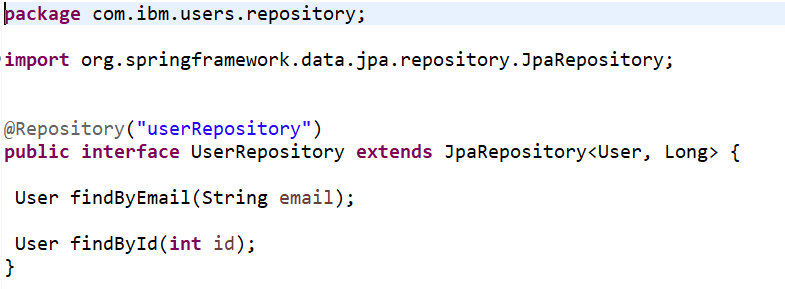
1. **Spring Data Dependency:**



1. **API Configurations:**



1. **JPA Repository:**



1. **Data Model Classes:**

