***About the Sample Custom Registration Page DRF Application***

*This application is built to Confirm the OpenedX external Registration with the help of OpenedX database credentials.*

***Status:*** *In progress... Users can register on the OpenedX platform using OpenedX database credentials.*

***OpenedX Release:*** *Ironwood.master*

***Registration pages used Tables/Collections in IITBombayX Database :***

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.No.** | **Database** | **Tables/Collections** | **Notes, If any.** |
| 1 | MySQL: edxapp | auth\_user |  |
| 2 | MySQL: edxapp | auth\_userprofile |  |
| 3 | MySQL: edxapp | custom\_reg\_form\_extrainfo | This table is used for IITBombayX Custom Fields (States, City, Pin Code and Aadhar Id (UIDAI)) on the registeration page. |
| 4 | Mongodb: cs\_comments\_service | users |  |

***List of fields of the “auth\_user” table in the “edxapp” MySQL database those are used in the Registration page:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **fields of the “auth\_user”** | **datatype of fields** | **Lable on the registeration page.** | **Notes, If any.** |
| 1 | id | int(11) | -Not on page but used by the application. | It is auto\_increment and primary key will be used as reference for the user. |
| 2 | password | varchar(128) | Password | Mandatory. |
| 3 | username | varchar(150) | Public User Name | Mandatory, unique. |
| 4 | first\_name | varchar(30) | First Name | Not used by IITBombayX. |
| 5 | last\_name | varchar(30) | Last Name | Not used by IITBombayX. |
| 6 | email | varchar(254) | Email Id | Mandatory, unique. |
| 7 | is\_active | tinyint(1) | -Not on page but used by the application. | Static Value “1”. |

***List of fields of the “auth\_userprofile” table in the “edxapp” MySQL database those are used in the Registration page:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Fields of the *auth\_userprofile*** | **Datatype of fields** | **Lable on the registeration page.** | **Notes, If any.** |
| 1 | name | varchar(255) | Full Name | It is mandatory on IITBombayX registration page, but it is drop in sample application(Just for testing). When it is not set then the value of username is assign. |
| 2 | year\_of\_birth | int(11) | Year of Birth | Optional. |
| 3 | gender | varchar(6) | Gender | Optional. |
| 4 | level\_of\_education | varchar(6) | Highest level of education completed | Optional. |
| 5 | city | longtext | City | Mandatory. |
| 6 | country | varchar(2) | Country | Mandatory. |
| 7 | goals | longtext | Tell us why yo're interested in IITBombayX | Optional. |
| 8 | user\_id | int(11) | -Not on page but used by the application | It is reference key refer from auth\_user table of edxapp MySQL database. |

***List of fields of the “custom\_reg\_form\_extrainfo” table in the "edxapp" MySQL database those are used in the Registration page:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Fields of the  *custom\_reg\_form\_extrainfo*** | **Datatype of fields** | **Lable on the registeration page.** | **Notes, If any.** |
| 1 | state | varchar(50) | States | Mandatory. |
| 2 | city | varchar(50) | City | Mandatory. |
| 3 | pincode | int(11) | Pin Code | Mandatory. |
| 4 | aadharid | bigint(20) | Aadhar Id(UIDAI) | Optional. |
| 5 | user\_id | int(11) | -Not on page but used by the application | It is reference key refer from auth\_user table of edxapp MySQL database. |

***List of fields of the “users” table in the "cs\_comments\_service" mongodb database those are used in the Registration page:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Fields of the  *users*** | **Lable on the registeration page.** | **Notes, If any.** |
| 1 | \_id | -Not on page but used by the application | It is reference key refer from auth\_user table of edxapp MySQL database. |
| 2 | default\_sort\_key | -Not on page but used by the application | Static Value "date". |
| 3 | external\_id | -Not on page but used by the application | It is reference key refer from auth\_user table of edxapp MySQL database. |
| 4 | username | Public User Name | Mandatory. |

***List COUNTRIES might be available in the drop-down box are:***

|  |  |  |
| --- | --- | --- |
| Sr.No. | *Drop-down Value* | *Value which is store in the* ***country*** *field of* ***auth\_userprofile*** *table of* ***edxapp*** *MySQL Database* |
| 1 | Alabama | AL |
| 2 | Alaska | AK |
| 3 | Arizona | AZ |
| 4 | Arkansas | AR |
| 5 | Armed Forces Americas | AA |
| 6 | Armed Forces Europe | AE |
| 7 | Armed Forces Pacific | AP |
| 8 | California | CA |
| 9 | Colorado | CO |
| 10 | Connecticut | CT |
| 11 | Delaware | DE |
| 12 | District Of Columbia | DC |
| 13 | Florida | FL |
| 14 | Georgia | GA |
| 15 | Hawaii | HI |
| 16 | Idaho | ID |
| 17 | Illinois | IL |
| 18 | Indiana | IN |
| 19 | Iowa | IA |
| 20 | Kansas | KS |
| 21 | Kentucky | KY |
| 22 | Louisiana | LA |
| 23 | Maine | ME |
| 24 | Maryland | MD |
| 25 | Massachusetts | MA |
| 26 | Michigan | MI |
| 27 | Minnesota | MN |
| 28 | Mississippi | MS |
| 29 | Missouri | MO |
| 30 | Montana | MT |
| 31 | Nebraska | NE |
| 32 | Nevada | NV |
| 33 | New Hampshire | NH |
| 34 | New Jersey | NJ |
| 35 | New Mexico | NM |
| 36 | New York | NY |
| 37 | North Carolina | NC |
| 38 | North Dakota | ND |
| 39 | Ohio | OH |
| 40 | Oklahoma | OK |
| 41 | Oregon | OR |
| 42 | Pennsylvania | PA |
| 43 | Rhode Island | RI |
| 44 | South Carolina | SC |
| 45 | South Dakota | SD |
| 46 | Tennessee | TN |
| 47 | Texas | TX |
| 48 | Utah | UT |
| 49 | Vermont | VT |
| 50 | Virginia | VA |
| 51 | Washington | WA |
| 52 | West Virginia | WV |
| 53 | Wisconsin | WI |
| 54 | Wyoming | WY |

**List STATES in the drop down box are:**

|  |  |  |
| --- | --- | --- |
| Sr.No. | *Drop-down Value* | *Value which is store in the* ***state*** *field of* ***custom\_reg\_form\_extrainfo*** *table of* ***edxapp*** *MySQL Database* |
| 1 | Andaman and Nicobar islands | Andaman and Nicobar islands |
| 2 | Andhra Pradesh | Andhra Pradesh |
| 3 | Arunachal Pradesh | Arunachal Pradesh |
| 4 | Assam | Assam |
| 5 | Bihar | Bihar |
| 6 | Chandigarh | Chandigarh |
| 7 | Chattisgarh | Chattisgarh |
| 8 | Dadra and Nagar Haveli | Dadra and Nagar Haveli |
| 9 | Daman and Diu | Daman and Diu |
| 10 | Delhi | Delhi |
| 11 | Goa | Goa |
| 12 | Gujarat | Gujarat |
| 13 | Haryana | Haryana |
| 14 | Himachal Pradesh | Himachal Pradesh |
| 15 | Jammu and Kashmir | Jammu and Kashmir |
| 16 | Jharkhand | Jharkhand |
| 17 | Karnataka | Karnataka |
| 18 | Kerala | Kerala |
| 19 | Lakshadweep | Lakshadweep |
| 20 | Madhya Pradesh | Madhya Pradesh |
| 21 | Maharashtra | Maharashtra |
| 22 | Manipur | Manipur |
| 23 | Meghalaya | Meghalaya |
| 24 | Mizoram | Mizoram |
| 25 | Nagaland | Nagaland |
| 26 | Orissa | Orissa |
| 27 | Pondicherry | Pondicherry |
| 28 | Punjab | Punjab |
| 29 | Rajasthan | Rajasthan |
| 30 | Sikkim | Sikkim |
| 31 | Tamil Nadu | Tamil Nadu |
| 32 | Telangana | Telangana |
| 33 | Tripura | Tripura |
| 34 | Uttar Pradesh | Uttar Pradesh |
| 35 | Uttarakhand | Uttarakhand |
| 36 | West Bengal | West Bengal |

***List of GENDER\_CHOICES in the drop down box are:***

|  |  |  |
| --- | --- | --- |
| Sr.No. | *Drop-down Value* | *Value which is store in* ***gender*** *field of* ***auth\_userprofile*** *table of* ***edxapp*** *Mysql Database* |
| 1 | Male | m |
| 2 | Female | f |
| 3 | Other/Prefer Not to Say | o |

***List of LEVEL\_OF\_EDUCATION\_CHOICES in the drop-down box are:***

|  |  |  |
| --- | --- | --- |
| Sr.No. | *Drop-down Value* | *Value which is store in the* ***level\_of\_education*** *field of* ***auth\_userprofile*** *table of* ***edxapp*** *MySQL Database* |
| 1 | Doctorate | p |
| 2 | Master's or professional degree | m |
| 3 | Bachelor's degree | b |
| 4 | Associate degree | a |
| 5 | Secondary/high school | hs |
| 6 | Junior secondary/junior high/middle school | jhs |
| 7 | Elementary/primary school | el |
| 8 | No formal education | none |
| 9 | Other education | other |

***Instruction to Install and Run package***

1. **Setting up a new environment:**

Before we do anything else we'll create a new virtual environment, using venv. This will make sure our package configuration is kept nicely isolated from any other projects we're working on.

* 1. **To create a new environment:**

*python3 -m venv <env\_name>*

* 1. **Activate created environment:**

*source <env\_name>/bin/activate*

1. **Copy the package:**

Now that we're inside a virtual environment, we can copy our package.git clone

* 1. **Git Clone:**

*git clone http://<user\_name>@gitlab.cse.iitb.ac.in/saritat/iitbombayxregistrationpage.git*

* 1. **Change Directory:**

*cd IITBombayXRegistrationPage*

* 1. **Checkout Git branch**

*git checkout Iroonwood.master*

1. **Package Settings:**
   1. **In edxapp MySQL Database of the IITBombayX:**
      1. Use *'*edxapp*'* database:

*mysql -u root -p*

Use *'*edxapp*'* *;*

* + 1. Create a user with all privileges granted:

*create user '<db\_user\_name>'@'<api\_server\_ip>' IDENTIFIED BY '<db\_password>';*

*GRANT ALL PRIVILEGES ON \*.\* TO '<db\_user\_name>'@'<api\_server\_ip>' WITH GRANT OPTION ;*

*FLUSH PRIVILEGES;*

* 1. ***Change database setting of IITBombayXRegistrationPage package:***

We'll need to edit our mysql user credential to ‘DATABASES’ dictionary . Let's edit the './*IITBombayXRegistrationPage*/settings.py' file:

*vi ./IITBombayXRegistrationPage/settings.py*

**For example:**

*DATABASES = {*

*'default': {*

*'ENGINE': 'django.db.backends.mysql',*

*'NAME': 'edxapp',*

*'USER': '****<db\_user\_name>****',*

*'PASSWORD':'****<db\_password>****',*

*'HOST':'****<IITBombayX\_MySQL\_IP>****',*

*'PORT':'****<IITBombayX\_MySQL\_PORT>****',*

*}*

*}*

* 1. ***Pakage Sever Setting:***

*We'll need to add our server IP to 'ALLOWED\_HOSTS' list. Let's edit the 'edXRegistration/settings.py' file:*

*vi edXRegistration/settings.py*

**For example:**

ALLOWED\_HOSTS = ['127.0.0.1']

1. **Install package requirements:**

We can install our package requirements inside a virtual environment.

*pip install -r < requirment.txt*

1. ***OpenEdx Server Configrations:***

Now, we set OpenEdx server credentials of Mongodb and MySql databases in the 'config.yml' file, let’s edit it

*vi config.yml*

1. **Run server:**

Let us start up the development web server:

*python manage.py runserver <server\_IP>:<port>*

***Test cases***

***Test cases of the Sample Custom Registration page developed in DRF for the OpenedX Ironwood.Master Instance:***

1. In the browser hit *<server\_IP>:<port> URL.*
2. Click on“Register” menu on top-right side of page.
3. Fill registration page information of new user and click on “Create Account” Buttom at bottom of the page.

**Case 1:** Age should be more or equal to the 13.

**Case 2:**  Age should be less than the 13.

1. Click on“Login” menu on top-right side of page, which is used to login on the Ironwood.master instance using the newly created user’s credentials.
2. Verify the user’s all profile details in the user dashboard on the Ironwood.master instance.
3. Check the user's profile details on the instructor dashboard.
4. Check the user's account details on the instructor dashboard.
5. Enroll the login user for a course.
6. Sign-Out the login user from IITBombayX platform.