# Instructions to Setup Custom Fields in IITBombayX

**for version Ironwood.master**

# These instructions are created for the Sysad team to add custom fields in the registration form in the IITBombayX portal. Four custom fields are added in the registration form.

1. **state**: mandatory drop down list of the state in India
2. **city**: mandatory text field
3. **pincode**: mandatory text field which allowed only 6-digit numerical value
4. **aadharid**: optional text field which allowed 12-digits numerical value

# Steps to follow

1. Clone the application from the git repository using the following command:

***git clone {git repository} {example AppDirectory}***

Use the following command:

***git clone http://<username>@gitlab.cse.iitb.ac.in/IITBombayXCustomRegForm/IITBomabayXCustomRegForm.git***

1. Go to the application directory

***cd IITBomabayXCustomRegForm/***

1. Checkout the git branch “*IITBombayX”* using the following command

***git checkout IITBomabayX***

1. Change the ownership of the application directory “*IITBomabayXCustomRegForm*” to the “*edxapp*” using the following command

***sudo chown -R edxapp:edxapp ../IITBomabayXCustomRegForm***

1. **Install the application:**
   1. Make sure the Internet connection is proper using the following command.

***lynx internet.iitb.ac.in***

* 1. Go to the directory “*/home/edx*”

Make sure the current working directory is “*/home/edx*” using the following command.

***Pwd***

If it is not “*/home/edx*”, change it to this directory using the following command.

***cd***

* 1. Change the user “edxapp” by executing the following command on the shell:

***sudo -H -u edxapp bash***

* 1. Activate edx platform virtual environment “*edxapp\_env” using the following command*

***source /edx/app/edxapp/edxapp\_env***

* 1. Now, Install this application using following command:

***pip install -e* IITBomabayXCustomRegForm*/***

* 1. Exit from the “*edxapp*” user shell using the following command:

***exit***

1. Open the “ **lms.env.json**” file located in the **“/edx/app/edxapp/”** directory (you may have to create it if it doesn't exist.)

***sudo vi /edx/app/edxapp/lms.env.json***

* 1. Add *"custom\_reg\_form"* in the "*ADDL\_INSTALLED\_APPS*" array. After adding, it should look like this

***"ADDL\_INSTALLED\_APPS": ["custom\_reg\_form"],***

* 1. Set a "*REGISTRATION\_EXTENSION\_FORM*" to the "*custom\_reg\_form.forms.ExtraInfoForm*". After setting the above parameter, it should look like this.

***"REGISTRATION\_EXTENSION\_FORM": "custom\_reg\_form.forms.ExtraInfoForm",***

* 1. Make sure the value of “***city****”* is “***hidden***” and “***state*” must be removed** ( should not be present) in the "*REGISTRATION\_EXTRA\_FIELDS*" dictionary in the “**lms.env.json**” file,. It should look like this

***"REGISTRATION\_EXTRA\_FIELDS": {***

***"first\_name": "required",***

***"city": "hidden",***

***"confirm\_email": "hidden",***

***"country": "required",***

***.***

***.***

***.***

***},***

* 1. Save and exit from the file.

1. In the same directory “**/edx/app/edxapp/**”, open the “**cms.env.json**” file (you may have to create it if it doesn't exist.)

***sudo vi /edx/app/edxapp/cms.env.json***

and set the “*ENABLE\_COMBINED\_LOGIN\_REGISTRATION*” feature flag to **“true**”. After setting the flag it should look like this.

***"ENABLE\_COMBINED\_LOGIN\_REGISTRATION": true,***

Save and exit from the file.

1. **Run migrations:**
   1. Make sure the Internet connection is proper using the following command.

***lynx internet.iitb.ac.in***

* 1. Go to the directory “*/home/edx*”

Make sure the current working directory is “*/home/edx*” using the following command.

***Pwd***

If it is not “*/home/edx*”, change it to this directory using the following command.

***cd***

* 1. Change the user *“edxapp*” by executing the following command on the shell:

***sudo -H -u edxapp bash***

* 1. Activate edx platform virtual environment “*edxapp\_env”* using the following command

***source /edx/app/edxapp/edxapp\_env***

* 1. Go to the “*edx-platform*” directory using following command:

***cd /edx/app/edxapp/edx-platform/***

* 1. Run Migrations using following command:

***./manage.py lms migrate custom\_reg\_form --settings=aws***

* 1. Exit from the “*edxapp*” user shell using the following command:

***exit***

1. **Start/restart** the LMS service using the following command.

***sudo /edx/bin/supervisorctl restart lms***

Once the setting up of custom fields is complete, verification is required. We need to verify the database and registration process

## Database

Connect to mysql database using the following command

**mysql -u root -p**

After logging in to mysql, go to **edxapp** database using following command

***use edxapp;***

Run the following queries in *edxapp* database:

1. Check if the table "*custom\_reg\_form\_extrainfo*" is created with the following fields: **“id”, “state”, “city”, “pincode”, “aadharid”** and **“user\_id”**.

***desc custom\_reg\_form\_extrainfo;***

1. Check if a row is added with the “**custom\_reg\_form**” app in "**django\_migrations**" table

**select \* from django\_migrations where app = 'custom\_reg\_form';**

Results will be displayed in a row for the app “*custom\_reg\_form*” with file name “***0001\_initial***” in the name column.

1. Check if a row is added with a **'custom\_reg\_form'** app in **"django\_content\_type"** table.

**select \* from django\_content\_type where app\_label ='custom\_reg\_form';**

Result will be displayed with the columns as :**id, app\_label** and **model**

1. Check if *Add, Change and Delete permissions* (3 rows) are added for **'django\_content\_type'** of **"custom\_reg\_form"** app in **"auth\_permission"** table.

**select \* from auth\_permission where content\_type\_id in (<list\_of\_ids\_result\_of\_above\_step3>);**

**<list\_of\_ids\_result\_of\_above\_step3>** is the data displayed in column name “ *Id* ” from the **"django\_content\_type"** table after running the query mentioned in step 3.

Eg.: *select \* from auth\_permission where content\_type\_id in (304, 305);*

Result will be displayed with the columns as :

*id*

*name*

*content\_type\_id*

*codename*

“*codename*” column will display **Add\_<model>, Change\_<model>** and **Delete\_<model> permission** for each *content\_type\_id*( same as  *id* from step 3). For each **Id**, 3 rows will be there displaying *Add, Change and Delete*.

## Check the registration form:

1. Go to the url of IITBombayX and register a user by filling the registration form along with **“state”, “city”, “pincode”** and **“aadharid”** fields.
2. Check if the data of the registered user is saved in a table in the MySQL database.
   1. Go to ***edxapp*** database by using the command

**use edxapp;**

* 1. Get the **id** of the registered user from “*auth\_user*” table by running the following query

**select max(id) from auth\_user;**

By running this query, we get the ***id*** of the latest row entered. That will be the registered *user’s id*. This **Id** will be used for checking the required registration details.

* 1. For the above max(id), check **"auth\_userprofile"** table for user profile details (year\_of\_birth, gender etc) using the queries written below:

**select \* from auth\_userprofile where user\_id = <max(id)>;**

The entries should be present in the **auth\_userprofile** table**.**

* 1. For the above *max(id)*, check **"custom\_reg\_form\_extrainfo"** table for **state name, city name, pincode and aadharid** entries using the queries written below:

**select \* from custom\_reg\_form\_extrainfo where user\_id = <max(id)>;**

The entries should be present in the **custom\_reg\_form\_extrainfo** table**.**