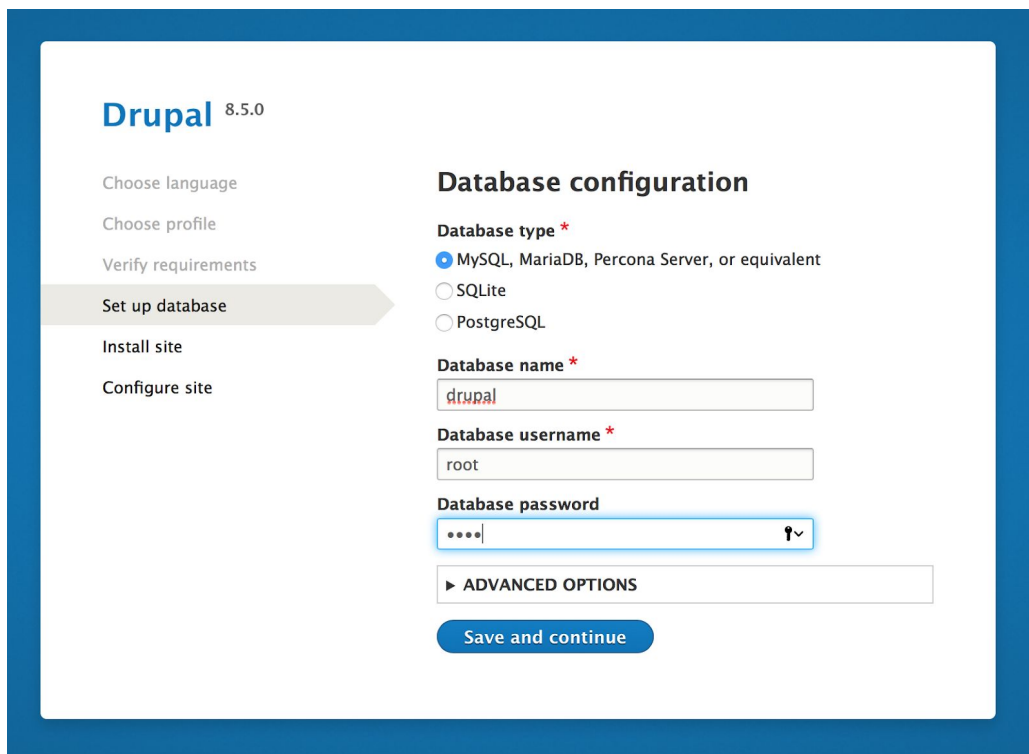# Volunteer Database Management using Drupal 8

Tools Used:
- MAMP
- Drupal 8

Installation:

1. Download & Install MAMP from here.
2. Download Drupal from here . After downloading, the resulting zip file should be in the ~/Downloads folder. Unzip this drupal.zip file. Move the contents of ~/Downloads/Drupal folder to /Applications/MAMP/htdocs.
3. Start MAMP create apache and my SQL server and click on Open Webstart Page. Click on Open Start Page, then on the phpMyAdmin link. Create a database in phpMyAdmin. The database name used in this project is "**d88".**
4. Open localhost and set up the Drupal database configuration.

5. For this project:

- ○ Database type: MySQL
- ○ Database name: drupal
- ○ Database username: root
- ○ Database password:
6. Fill the site maintenance information in the configure tab.
7. For this project:
   - ○ Username: Ruchi
   - ○ Password: 123@ruchi

Drupal 8 Modules:

Different Drupal 8 modules were used in the project for achieving different tasks. For the proper functioning of the site all of the following modules must be installed:
- Chosen
- Simple hierarchical select
- Taxonomy Manager
- RoleAssign
- Webform (includes Web form View,   SHS)

Adding State Vocabulary:

For implementing the dependent dropdown, a state vocabulary is created with districts as its child terms. To make this easy Taxonomy Manager module was used. For editing, this vocabulary just goes to taxonomy manger and select states vocabulary. For creating a new vocabulary click on the Add new Vocabulary, add a new term and fill the data of the state in the given format. The data file used for this project "`states_database.txt`" is attached and can be used for making new vocabulary.

Editing Registration Form:

The registration form was created using the Web form module of Drupal 8. It can be accessed from this link. The name of Web form is "**form**".
Different fields and pages can be changed using the build option. Some of the fields are required by default which can be undone by simply unchecking the required option.

Conditions for different fields:

- Date of Birth must be such that the age of the user is above 18 years. Can be changed by altering "`Date_maximum`" in Date settings.
- State field is an SHS Term select which prefills values from states vocabulary. This is achieved through taxonomy which has been explained earlier. The selection is forced till deepest level so that districts are shown after selecting respective states.

- Aadhar Number field requires a 12 digit number. It can be altered by changing "`Min_length`" and "`Max_length`" in field settings.
- Year of RC Training is made up of different number fields which are visible only if their respective checkbox is selected.

- *Details of previous engagement with Red Cross/ Multiple pieces of training* field is an Entity Autocomplete field. It stores the values in "**previous experience**" vocabulary and suggest them on a new submission.

●

Form Permissions and Roles:

Currently, the database contains 3 roles of State, Districts and Volunteers. This can be edited from here. With the use of RoleAssign module, we can restrict the viewing and editing rights of Web form. This can be changed from here under the RoleAssign and Web form tabs.

Search Page:

The search page is implemented using Web form View to search for different submissions on the basis of filters. The name of the page is **"Search page"** and can be viewed from here **http://localhost/search-page**. Currently, the form contains the following filters:
- Name
- State & District
- Type of Training

Search page

Name: First and Last Name

[   ]

State

[ANDAMAN AND NICOBAR ISLANDS ▼] [– None – ▼]

Type of RC Training (if done any)

[– Any – ▼]

Details of previous experience with Red Cross/ multiple training

[○]

(Apply)

Any number of filters can be added or edited from the views settings page. Currently, the results show three fields which are the name, state, and a link to view complete details. This can be easily modified too from the same settings page. Access to the search page can be also changed. Currently, it is unrestricted to all users of any role.