

1.1.1 Home Page

The home options could lead you to an entirely different page where you can find information according to the interest and categories involved: Demographic, Hospital, Hotels, Household, Temple, Access to Electricity, Drinking Water Facilities, Schools & Paved Roads these are dynamic categories which can be maintained from the dashboard. The home page could be access through the link as <http://gis.uptechsys.com/>. The home page of Gauradaha Municipality is presented in figure 10.1.

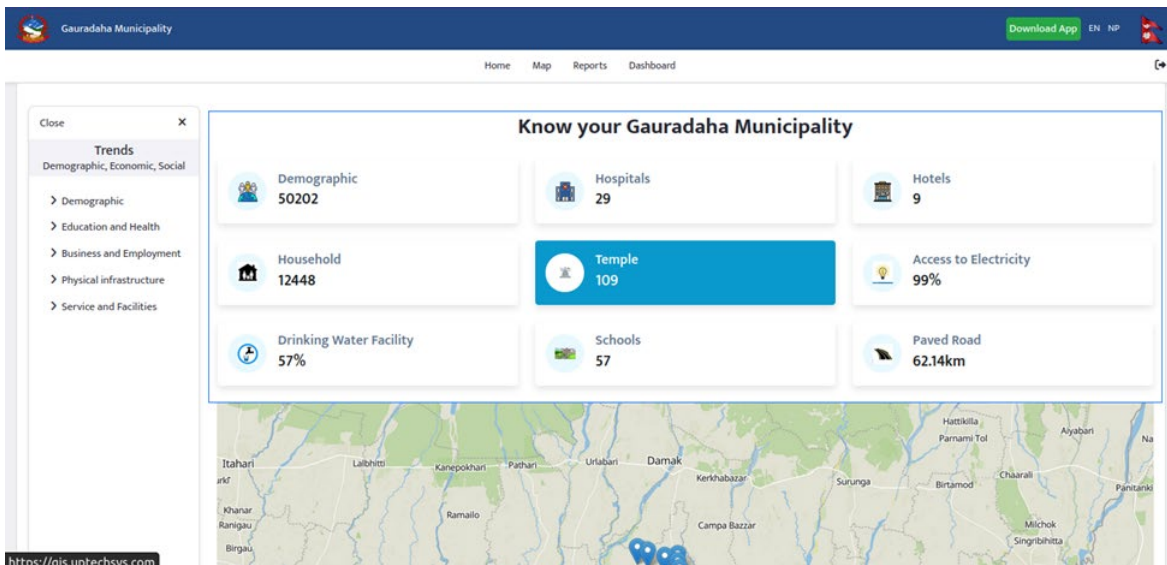


Figure 10-1: Home Page of Gauradaha Municipality

1.1.2 Map

The map section shows the entire map of the area after entering the valid input on each of the input sections. The data are categorized in different section of ward boundary, public facility and infrastructure, electricity supply, culture and architecture, water bodies, water supply network, drainage and sewage, and road network as shown in figure 10.2 below.

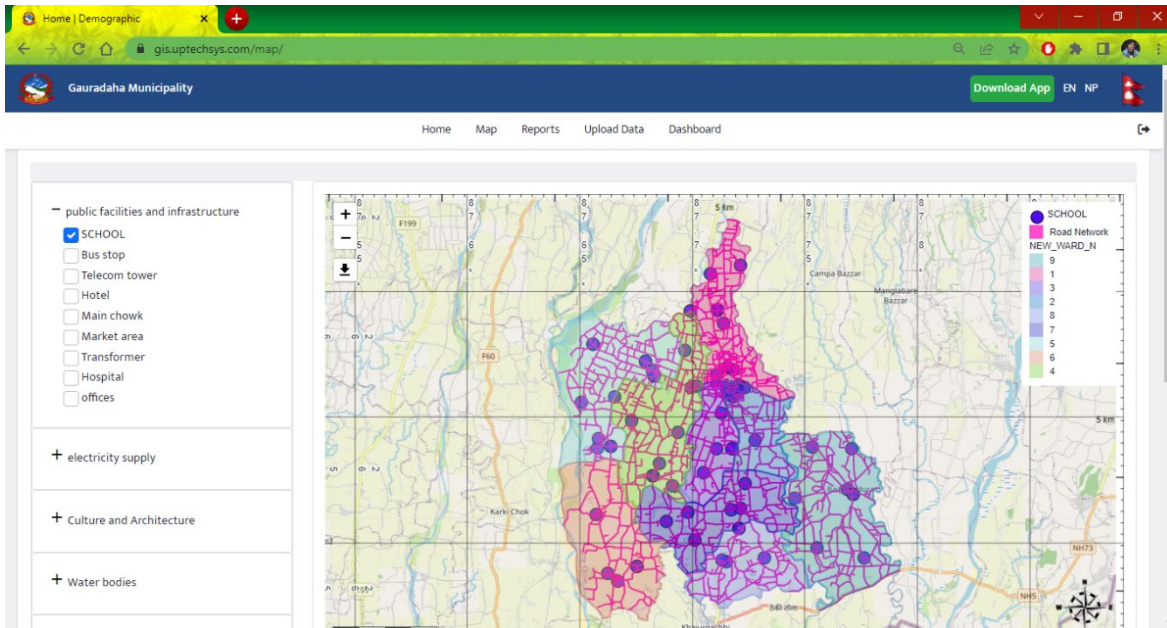


Figure 10-2: Map Interface

1.1.3 Reports

The reports section provides the search bar, which is fast and efficient, helping users with suggestions that are adaptive. This report section consists of reports on each of the categories that could be demographic, economic, and socially interlinked. The interface is shown in Figure 10.3 below.

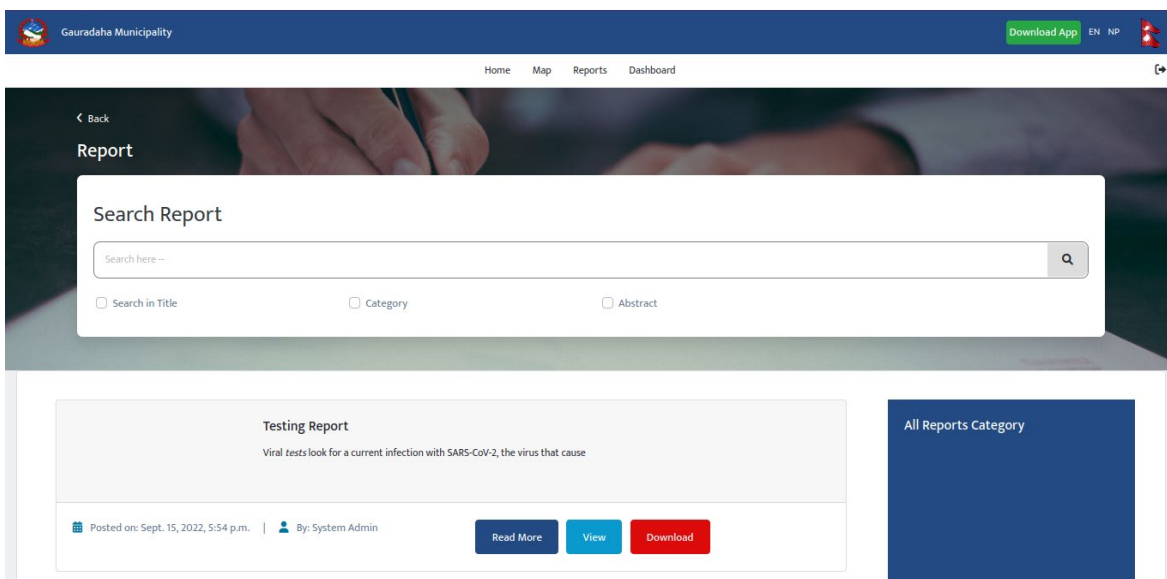


Figure 10-3: Reports Interface

1.1.4 English / Nepali Language Feature

We can convert the language according to our comfort zone i.e., in English or Nepali by clicking EN and NP on the topmost right of the home page. The whole application, each section and their sub-sections will be displayed in selected language.

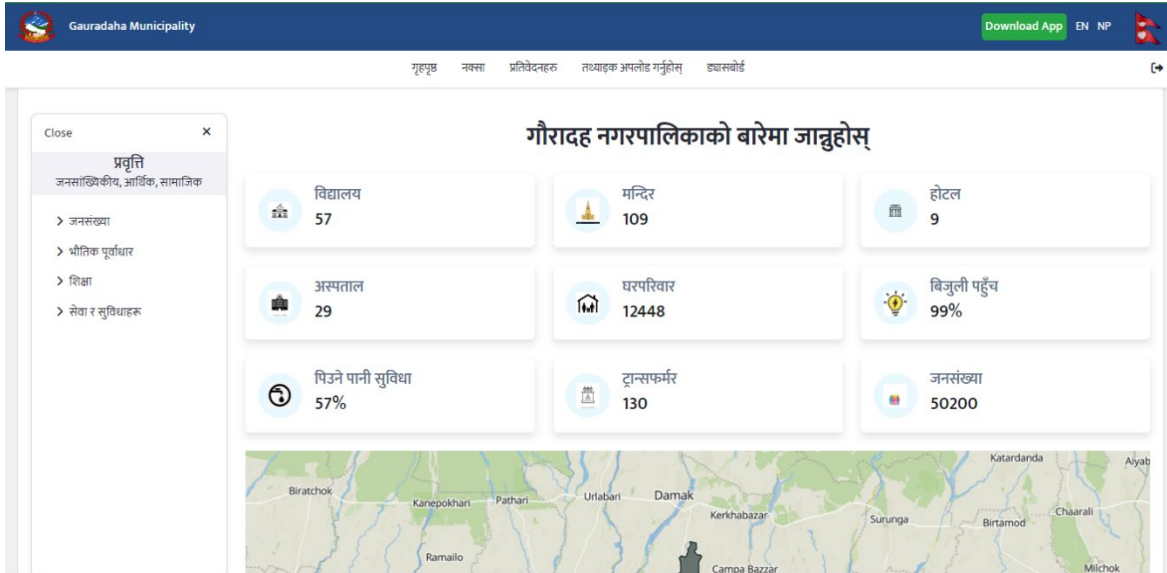


Figure 10-4: English/ Nepali Language Feature

1.1.5 Trends

The Homepage contains 5 Trends at the topmost left corner. Demographic, Education & Health, Business & Employment, Physical Infrastructure, Service & Facilities.

1.1.7 Physical Infrastructure

Physical Infrastructure shows the total number of building stories, build year of house, access to health facility, rented leased, visible building damage, house Design and so on.

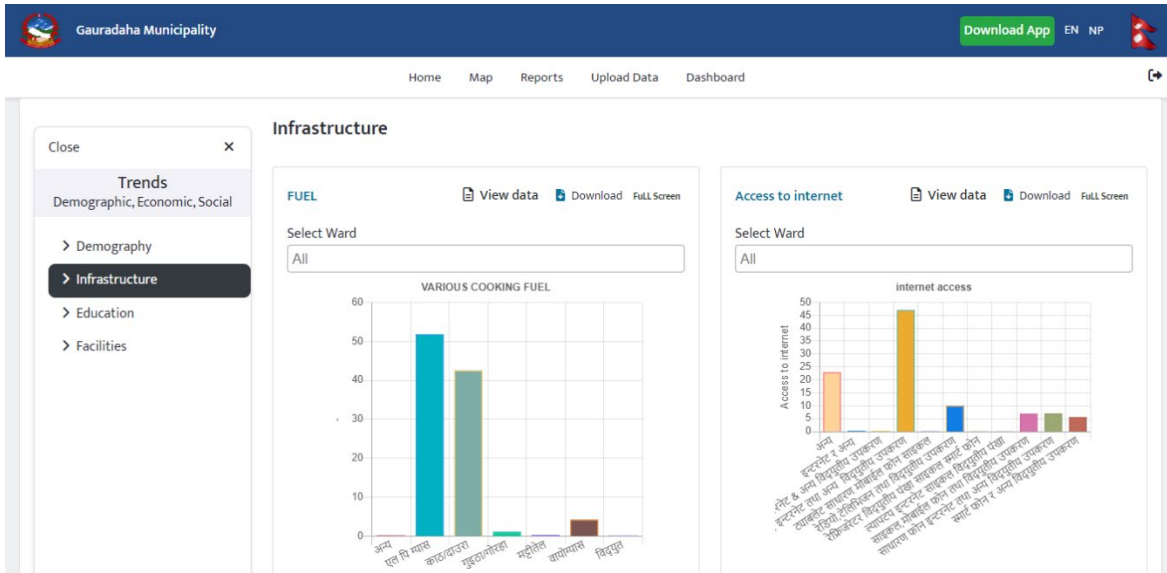


Figure 10-7: Physical Infrastructure Interface

1.1.8 Service & Facilities

Service and Facilities shows total drainage, cooking fuel, solid waste management facility, electricity access and so on.

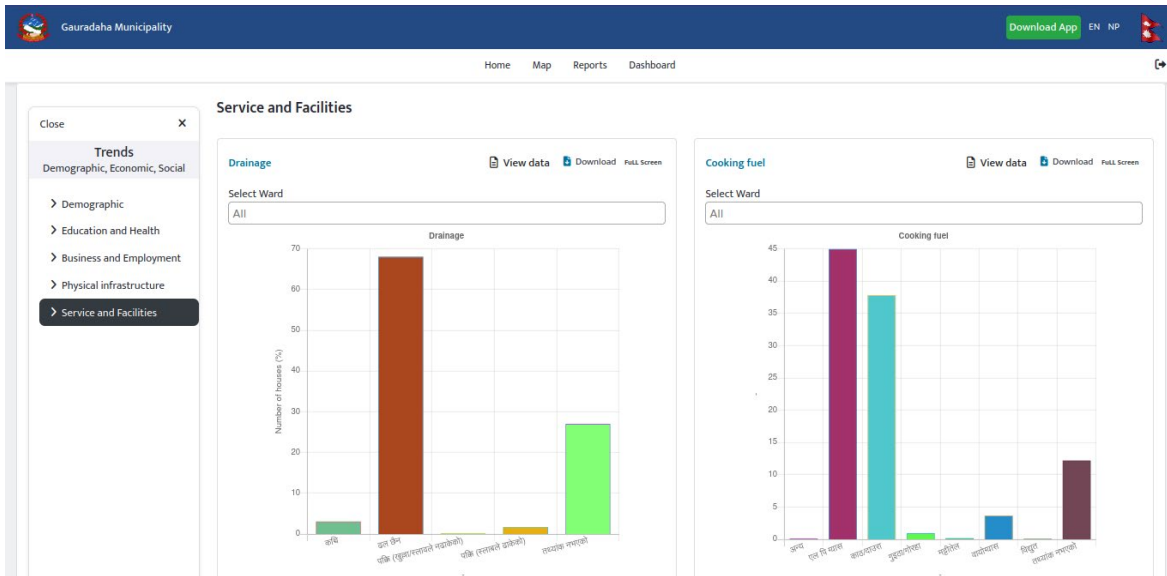


Figure 10-8: Service and Facilities Interface

1.1.9 Division Filter

At the end of the home page, there is a division filter. User can choose variables of interest. User can select info, column, ward, tole and select the chart as pie or bar. Then plot to visualize the corresponding chart.

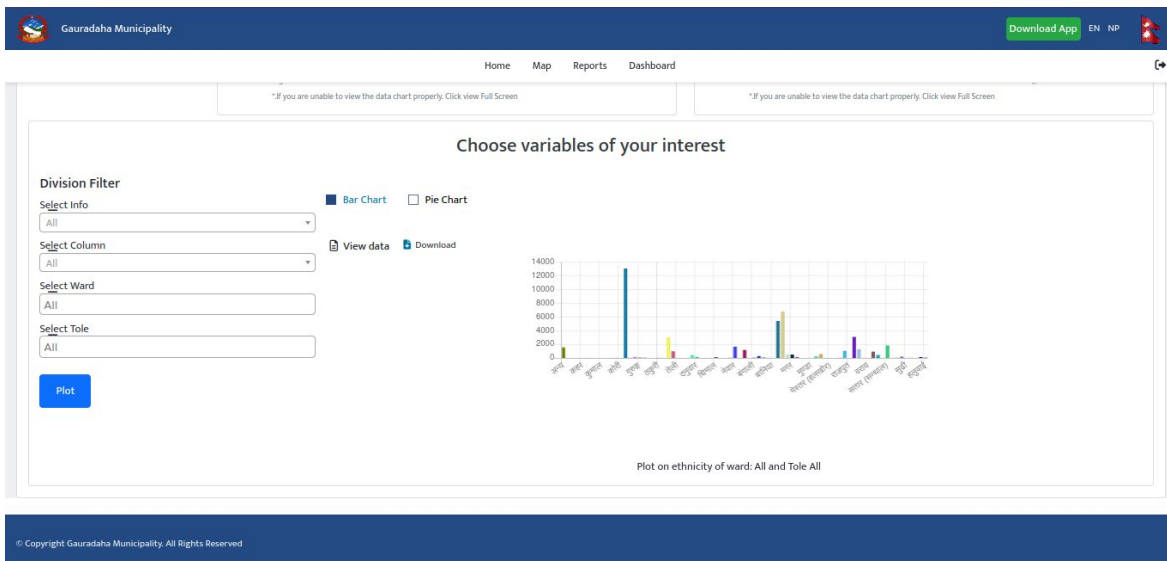


Figure 10-9: Division Filter

1.1.10 Register / Active User

Users have to click on Register Now instead of login and fill in the information for the registration.

The registration form contains the following fields and elements:

- Username***: Input field containing 'admin'.
- First Name***: Input field containing 'First Name'.
- Last Name***: Input field containing 'Last Name'.
- Email***: Input field with a tooltip that says 'Please fill out this field.' and contains 'Email'.
- Password***: Input field containing '....'.
- Confirm Password***: Input field containing 'Password2'.
- Buttons**: 'Reset' (red) and 'Register' (blue).
- Links**: 'Already Have an Account?' and 'Login Now'.

Figure 10-10: Registration Interface

To make the user active, admin has to go to the Dashboard and click on User. Then select “make as active” in the Action section selecting the user’s name. Admin can edit or Delete the User too.

The Admin Panel shows a table of users with the following data:

S.N	Full Name	Email	Is Active	Is Admin	Actions
1	admin admin		✓	✓	Edit Delete
2	a b	ab@gmail.copm	✓	✓	Edit Delete
3	Merrill Nolan	qevibobuzu@mailinator.com	✓	✗	Edit Delete
4	Anup Adhikari	adhikarianup96@gmail.com	✗	✗	Make Active
5			✓	✓	Edit Delete

<https://gis.uptechsys.com/make-user-active/?u=5>

Figure 10-11: Admin Panel

After registration and provide of “make as active” by admin, user can login into the web page. The login needs a username and password. Thus, user needs to enter registered username and corresponding password and click on login now to login into the web page.

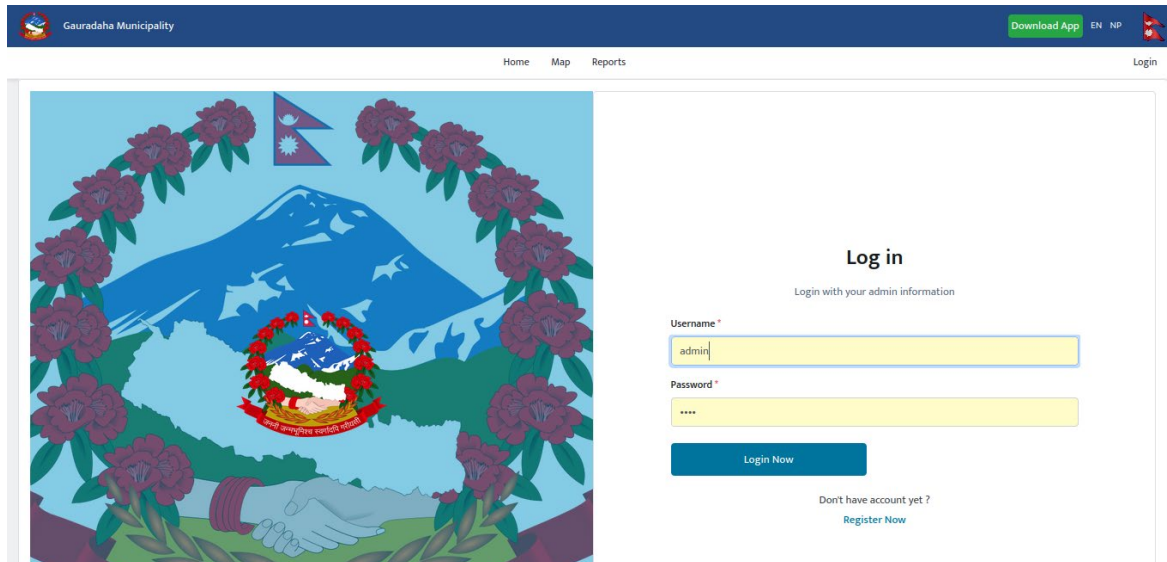


Figure 10-12: Login Interface

Then, it will navigate into the home page.

1.1.11 Dashboard

The dashboard contains 10 Sections named as Upload Data, Add Category, Map Category, Add GIS Category, Upload GIS Category, Report Category, Reports, Info Data Table View, Home Page Summary, and Users.

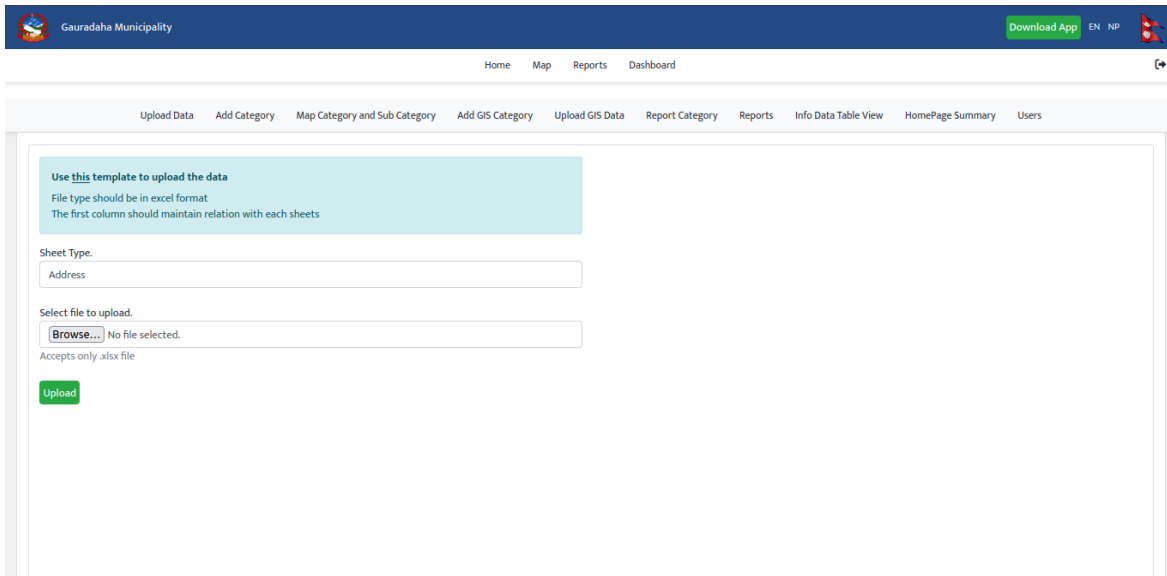


Figure 10-13: Dashboard Interface

1.1.11.1 Upload Data

We have to select the Sheet type > Select file to Upload > Click on upload.

1. First address is selected and the excel file is uploaded from where the address tab is loaded onto the system
2. Secondly, another dropdown value is selected and the same sheet from excel is loaded.

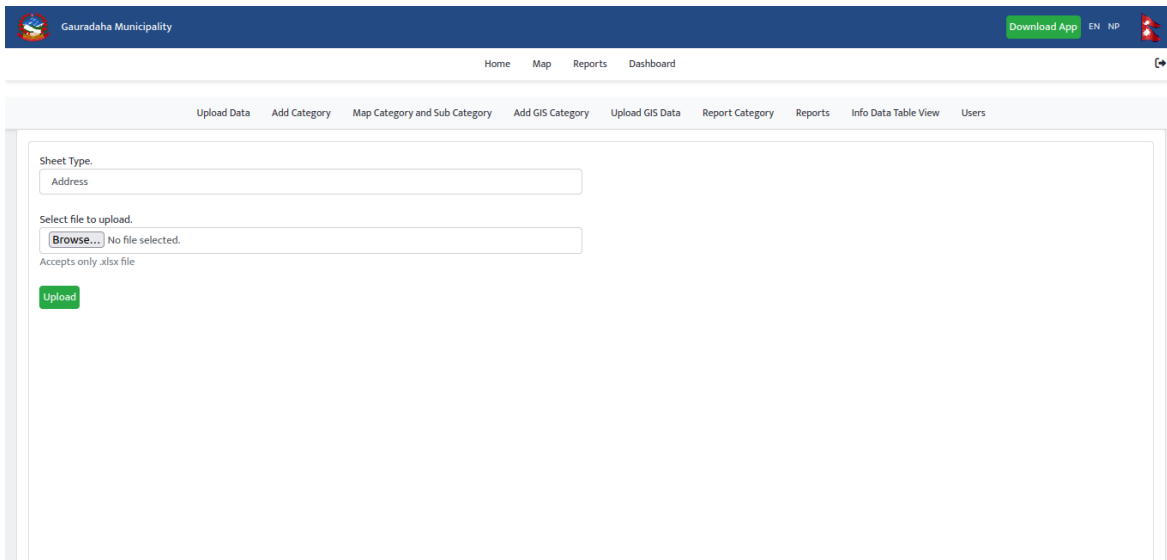


Figure 10-14: Upload Data Interface

1.1.11.2 Add Category

We have to Enter Title > Enter Title in Nepali > select whether it's active or not > Click on save and we can edit and delete the category from the Action side.

The screenshot shows the 'Add Category' interface. On the left, there is a form with the following fields: 'Title', 'Title [Nepali]', 'Title Ne', 'Is active: ', and a 'Save' button. On the right, there is a table with the following columns: 'Category Name', 'Category Nepali Name', 'Is Active', and 'Action'.

Category Name	Category Nepali Name	Is Active	Action
Demographic	जनसंख्या	<input checked="" type="checkbox"/>	Edit Delete
Education and Health	शिक्षा तथा स्वास्थ्य	<input checked="" type="checkbox"/>	Edit Delete
Business and Employment	पेसा तथा व्यवसाय	<input checked="" type="checkbox"/>	Edit Delete
Physical infrastructure	भौतिक पूर्वाधार	<input checked="" type="checkbox"/>	Edit Delete
Service and Facilities	सेवा र सुविधाहरू	<input checked="" type="checkbox"/>	Edit Delete

Figure 10-15: Add Category Interface

1.1.11.3 Map Category & Sub Map Category

We have to fill in all the blank sections and click on save!

The screenshot shows the 'Map Category and Sub Category' interface. It contains the following form fields: 'Select Data Category', 'Operations', 'Chart Name', 'Legend Name', 'X-Axis Title', 'X Axis Title', 'Chart Choices', 'Display on Homepage ', 'Select Variable', 'Select Range Value (E.g 10-11, 12-20)', 'Select Range Value', 'Chart Name Nepali', 'Legend Name Ne', 'Y-Axis Title', 'Y Axis Title', 'Select Category To Display', 'Chart Title', and 'Chart Title'. There are 'Save' and 'Cancel' buttons at the bottom right.

Figure 10-16: Map Category Interface

1.1.11.4 Add GIS Category

We have to enter name > enter a name in Nepali > select whether it is active or not > Click on save and we can edit and delete the category from the Action side.

The screenshot shows the 'Add GIS Category' interface. The header includes 'Gauradaha Municipality' and a 'Download App' button. The breadcrumb trail is: Home > Map > Reports > Dashboard > Upload Data > Add Category > Map Category and Sub Category > Add GIS Category. The form contains the following elements:

- Name:** Input field with placeholder 'Name'.
- Name [Nepali]:** Input field with placeholder 'Name Ne'.
- Active:** A checked checkbox.
- Save:** A green button.

The table below the form lists existing categories:

Category Name	Action	Status
Physical Infrastructure	True	Edit Delete
Natural Resources	True	Edit Delete
Political	True	Edit Delete

Figure 10-17: Add GIS Category Interface

1.1.11.5 Upload GIS Data

We have to select category > Name > Legend Type > Display format > Zip file > Color code > Click on save and we can edit and delete the category from the Action side.

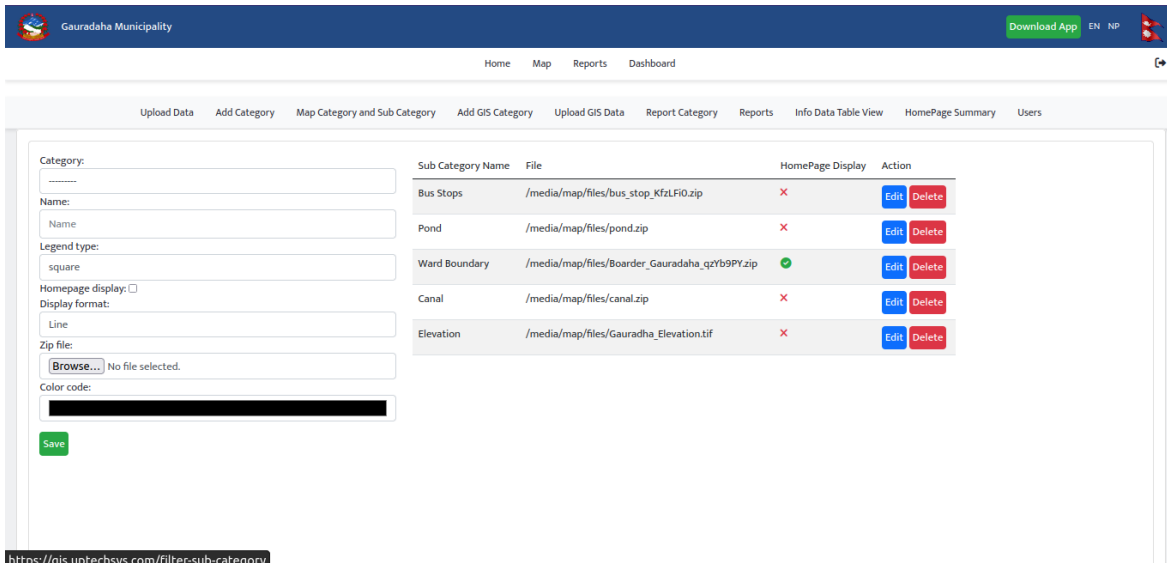


Figure 10-18: Upload GIS Data Interface

1.1.11.6 Report Category

We have to enter name > enter a name in Nepali> Click on save and we can edit and delete the category from the Action side.

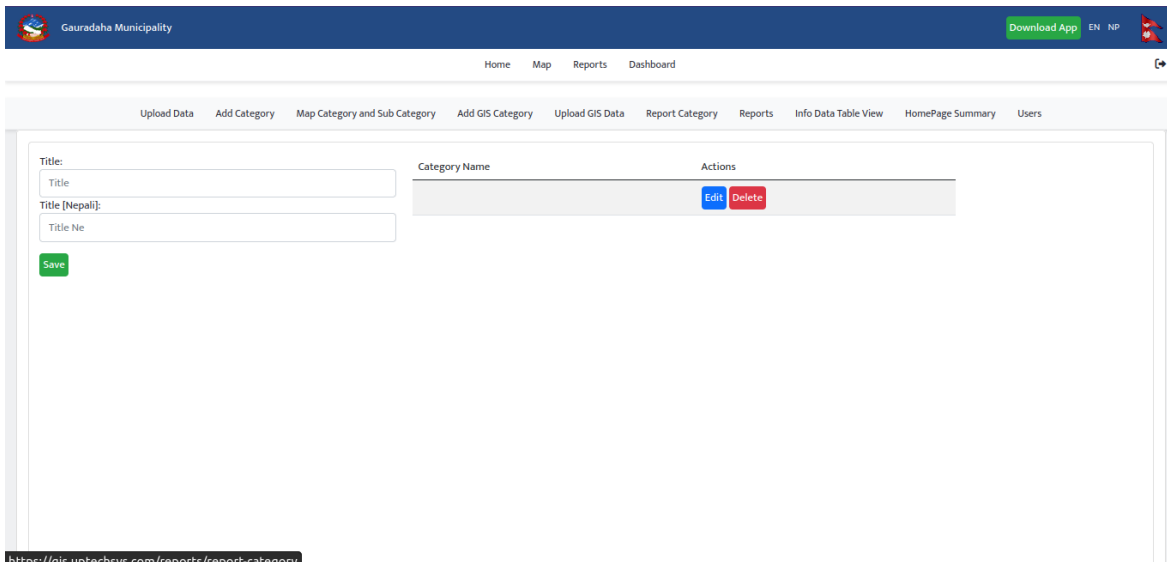


Figure 10-19: Report Category Interface

1.1.11.7 Reports

We can see Add report, Edit, and Delete report on this page. We can add a report by clicking on Add report in the topmost left.

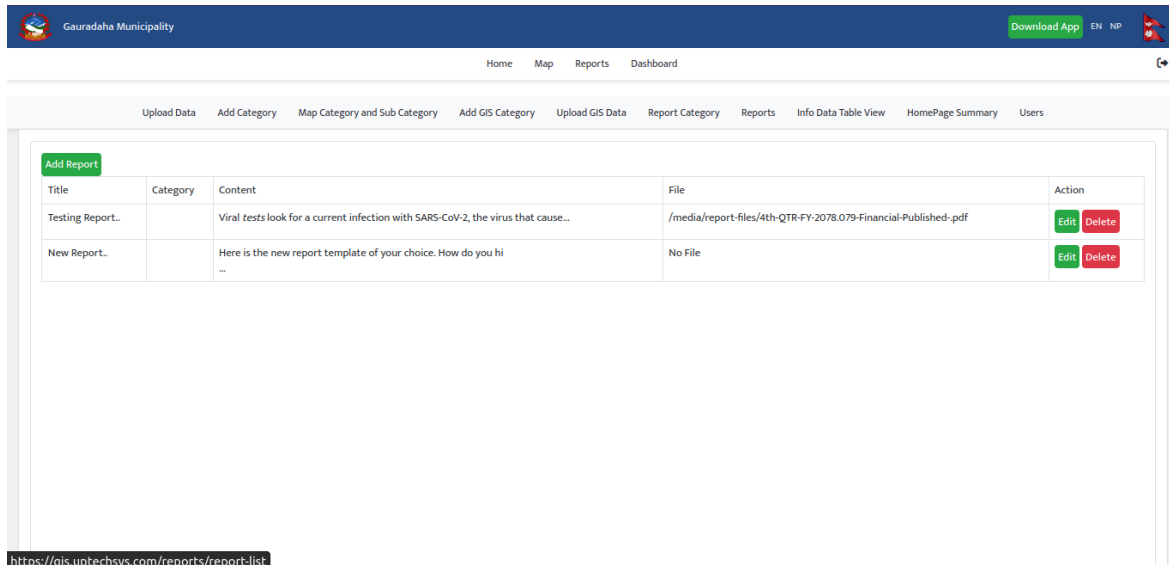


Figure 10-20: Reports Interface

1.1.11.8 Info Data Table View

We can add a new entry, Add Extra fields, remove extra fields and Click on save. We can get the whole information using the filter option and can see it on the map > can export the data > can select the interested one > Edit it and can Delete it.

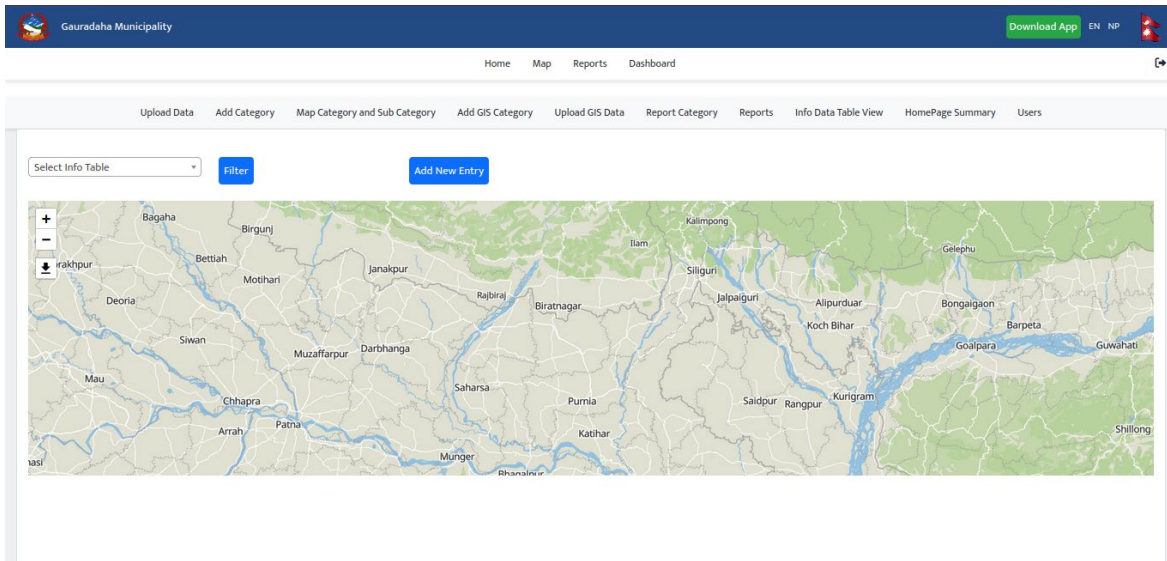


Figure 10-21: Info Data Table View Interface

1.1.11.9 Homepage Summary

We can add titles in English / Nepali > enter value > browse for icon > select to activate > click on save. (We can edit, delete, active & deactivate the data.

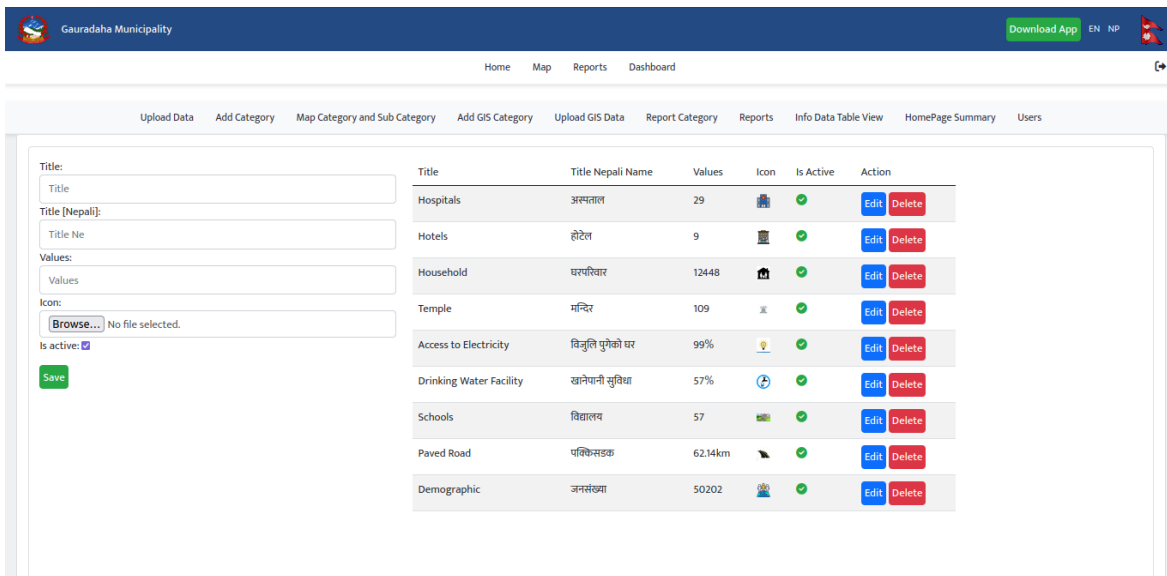


Figure 10-22: Homepage Summary Interface

1.1.11.10 Users

We can Add the user by clicking on the topmost right, we can Edit > Delete > Make as Active > Make as Admin!

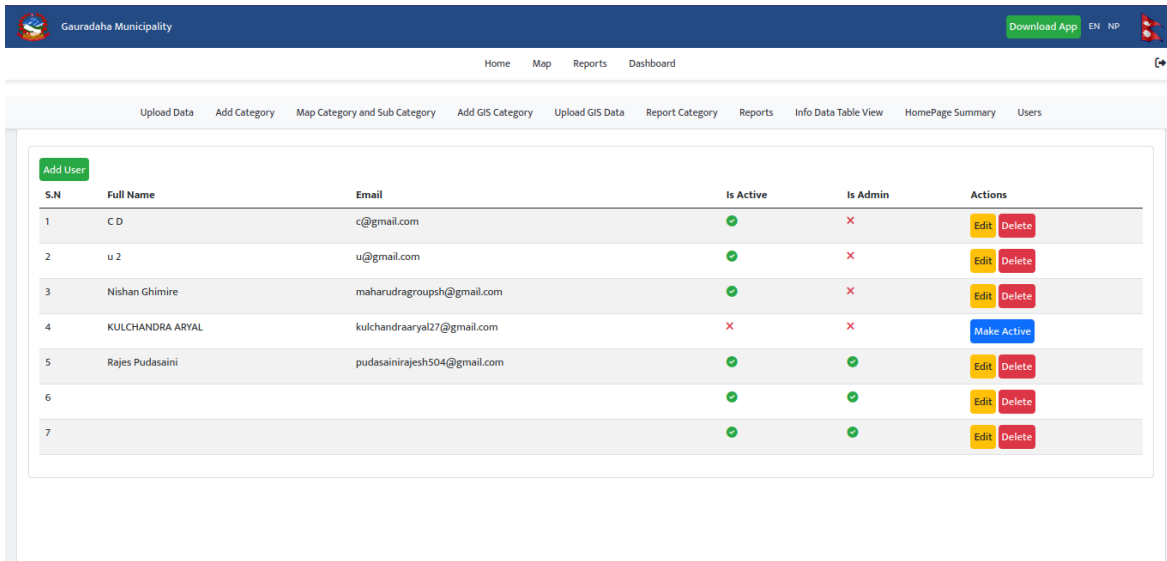


Figure 10-23: Users Interface

1.1.12 Export Map

We can Search places and print the map according to interest and categories made.

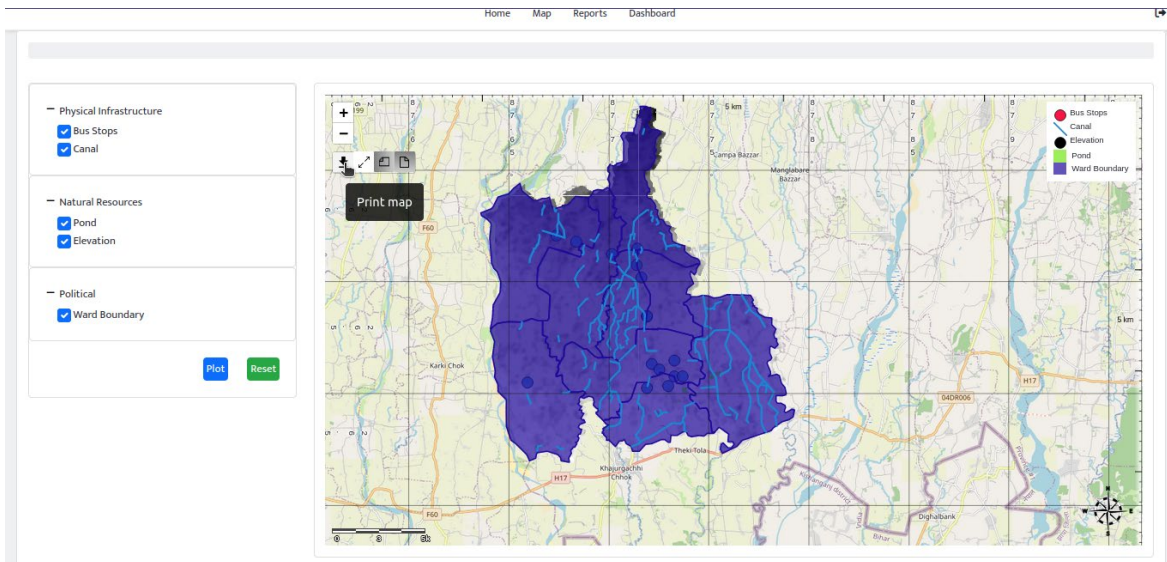
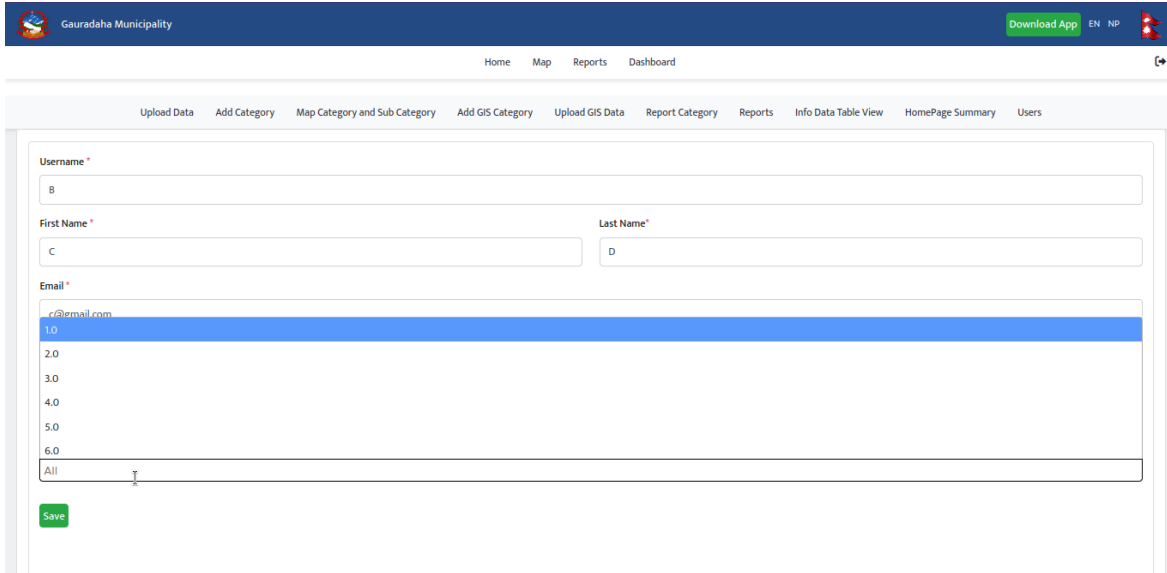


Figure 10-24: Export Map Interface

1.1.13 Ward Assigning to User

We have to go to users > Click on edit > select the wards > click on save. After that go to info data table view > select address table > select unit number > select the wards > Click on filter > we can see the wards data that the user was assigned.



Gauradaha Municipality

Home Map Reports Dashboard

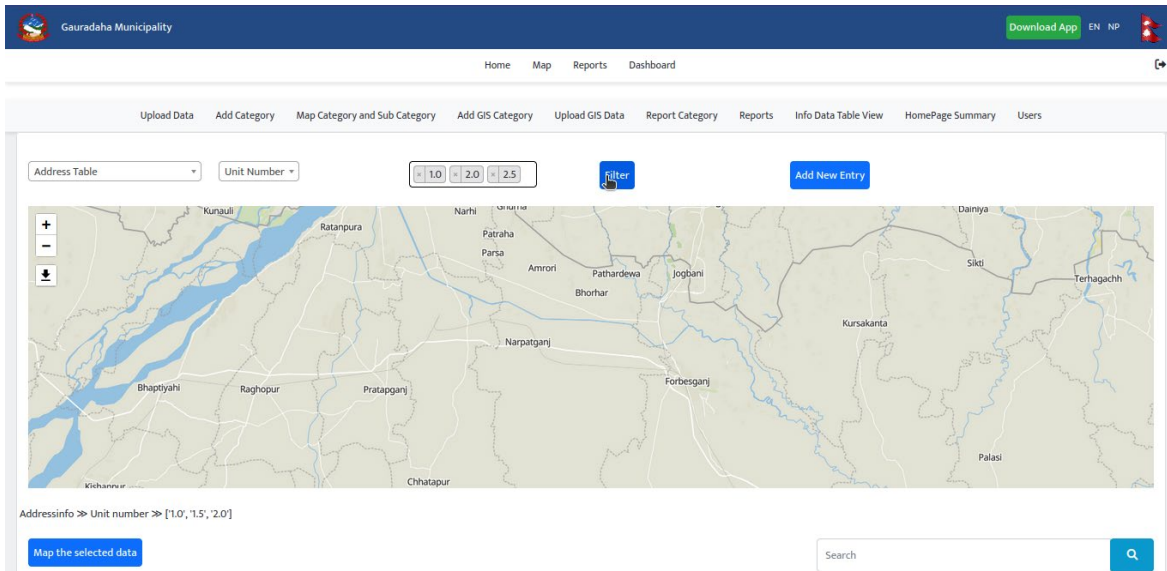
Upload Data Add Category Map Category and Sub Category Add GIS Category Upload GIS Data Report Category Reports Info Data Table View HomePage Summary Users

Username *
B

First Name * C Last Name * D

Email *
r@gmail.com
1.0
2.0
3.0
4.0
5.0
6.0
All

Save



Gauradaha Municipality

Home Map Reports Dashboard

Upload Data Add Category Map Category and Sub Category Add GIS Category Upload GIS Data Report Category Reports Info Data Table View HomePage Summary Users

Address Table Unit Number [1.0, 2.0, 2.5] filter Add New Entry

Addressinfo >> Unit number >> [1.0, 1.5, 2.0]

Map the selected data Search



Addressinfo >> Unit number >> [1.0', 1.5', 2.0']

Map the selected data

Search



Map	Action	Google plus code	Address 1	Address 2	Unit number	House number	Street name	Local body	Lg code	Ward	City	District	Province
<input type="checkbox"/>	Edit Delete	-	2650RD1037	2650RD1037Gauradha5जमु पौन टोलjhapa126.574909187.6819074	1.0	2650	RD1037	Gauradha	11108	5.0	जमु पौन टोल	jhapa	1.0
<input type="checkbox"/>	Edit Delete	-	2720RD1037	2720RD1037Gauradha5जमु पौन टोलjhapa126.574900487.6810646	1.0	2720	RD1037	Gauradha	11108	5.0	जमु पौन टोल	jhapa	1.0
<input type="checkbox"/>	Edit Delete	-	7891RD1856	7891RD1856Gauradha5स्कूल पौन टोलjhapa126.569685887.6842241	1.0	7891	RD1856	Gauradha	11108	5.0	स्कूल पौन टोल	jhapa	1.0
<input type="checkbox"/>	Edit Delete	-	7874RD 1856	7874RD 1856Gauradha5स्कूल पौन टोलjhapa126.569576887.6842491	1.0	7874	RD 1856	Gauradha	11108	5.0	स्कूल पौन टोल	jhapa	1.0
<input type="checkbox"/>	Edit Delete	-	7893RD1856	7893RD1856Gauradha5स्कूल पौन टोलjhapa126.569792387.6843162	1.0	7893	RD1856	Gauradha	11108	5.0	स्कूल पौन टोल	jhapa	1.0
<input type="checkbox"/>	Edit Delete	-	7856RD1856	7856RD1856Gauradha5स्कूल पौन टोलjhapa126.569134987.6837337	1.0	7856	RD1856	Gauradha	11108	5.0	स्कूल पौन टोल	jhapa	1.0
<input type="checkbox"/>	Edit Delete	-	295RD2872	295RD2872Gauradha5स्कूल पौन टोलjhapa126.562390287.6834996	1.0	295	RD2872	Gauradha	11108	5.0	स्कूल पौन टोल	jhapa	1.0
<input type="checkbox"/>	Edit Delete	-	1424RD1872	1424RD1872Gauradha5स्कूल पौन टोलjhapa126.565289487.683989	2.0	1424	RD1872	Gauradha	11108	5.0	स्कूल पौन टोल	jhapa	1.0
<input type="checkbox"/>	Edit Delete	-	1446RD1872	1446RD1872Gauradha5स्कूल पौन टोलjhapa126.565410387.6841946	2.0	1446	RD1872	Gauradha	11108	5.0	स्कूल पौन टोल	jhapa	1.0