



Development Unit Projects

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Land Management System

Introduction

Land management is an interdisciplinary field crucial for the sustainable stewardship of land resources. It encompasses a wide array of strategies, policies, and practices aimed at ensuring responsible land use, conservation, and administration. At its core, land management seeks to strike a delicate balance between meeting human needs and preserving ecological integrity. This involves integrating various perspectives, including economic development, environmental conservation, social equity, and cultural preservation. Through careful planning, regulation, and engagement with stakeholders, land management endeavours to promote sustainable outcomes that support both human well-being and ecological resilience. By addressing challenges such as land degradation, habitat loss, and climate change, effective land management plays a vital role in fostering resilient and prosperous societies while safeguarding natural resources for future generations.

Description about the Project

Previous Land Management

Before introducing the new land management system, land management in Sri Lanka relied on manual data collection and storage methods. Each district across the country submitted land-related data to the designated paralegal officer, who was responsible for overseeing land management activities in their respective areas. This data, which included information on land use, ownership, transactions, and other relevant details, was compiled and stored in separate Excel sheets.

However, this manual process presented several challenges. Firstly, the data received from each district was stored in individual Excel sheets, making it cumbersome to aggregate and analyze information across the entire country. This fragmented approach hindered the ability to gain a comprehensive understanding of land-related trends and issues at the national level.

Moreover, the monthly data received via email added another layer of complexity to the process. Each month, the officer had to sift through numerous emails containing Excel attachments, extract the relevant data, and manually input it into the corresponding Excel sheet. This manual data entry process was not only time-consuming but also prone to errors, as it relied heavily on human intervention.

Furthermore, the reliance on Excel sheets for data storage posed significant risks. If the Excel files were damaged or corrupted for any reason, retrieving and recovering the data became a daunting task. This lack of robust data management systems made it challenging to ensure the accuracy, reliability, and integrity of land-related information.

Additionally, the person responsible for managing the data had to invest considerable time and effort into maintaining and organizing the Excel sheets. This manual data management process not only consumed valuable resources but also diverted attention away from other critical land management tasks.

In summary, the previous land management system, characterized by manual data collection, storage, and management using Excel sheets, was inefficient, labour-intensive, and prone to errors and data loss. Recognizing the limitations of this approach, the decision was made to implement a new, more streamlined, and technologically advanced land management system to overcome these challenges and improve the efficiency and effectiveness of land management practices in Sri Lanka.

Newly Developed Land Management

Before delving into the functionalities of the system, it's essential to understand the overarching objectives and benefits of each module. The following descriptions provide a concise overview of each component:

1. Manage User Roles:

This module centralizes user management tasks, allowing administrators to efficiently oversee user accounts, assign roles and permissions, and maintain system security. By streamlining user authentication and authorization processes, administrators can ensure

that only authorized individuals have access to sensitive data and functionalities. Additionally, empowering users to input data directly into the system promotes efficiency and time management.

2. Manage permissions:

The "Manage Permissions" section empowers super administrators to precisely control access to system functionalities and data by assigning permissions to different user roles. By granularly assigning permissions, administrators can enforce security protocols, prevent unauthorized access, and maintain data integrity. This section allows the super administrator to assign permissions to roles and create new permissions and modify the permissions that have been created and remove those permissions from the system.

3. Manage Lands:

This function serves as a comprehensive platform for managing land-related data within the system. It encompasses managing both acquired and unacquired lands, enabling users to input, view, and track detailed information about land parcels. Additionally, the feature to generate PDFs of land data enhances accessibility and facilitates the sharing of land information with stakeholders.

4. User Activity Log:

The "User Activity Log" provides administrators with a detailed overview of all data changes and user interactions within the system. By maintaining a comprehensive record of user actions, the activity log enhances transparency, accountability, and auditability within the system. Administrators can leverage this information for tracking user behaviour, identifying security breaches, and ensuring regulatory compliance.

5. Changing Languages:

Also, English as well as Sinhala language is used here and can be used to provide data and change the languages of the available data.

Process and Guide the System

When the user logs into the website, the welcome page first appears like this.



Figure 1 - Welcome Window

Then press the Login Button as shown in the image above. Then the Login and Registration Page will appear like this.

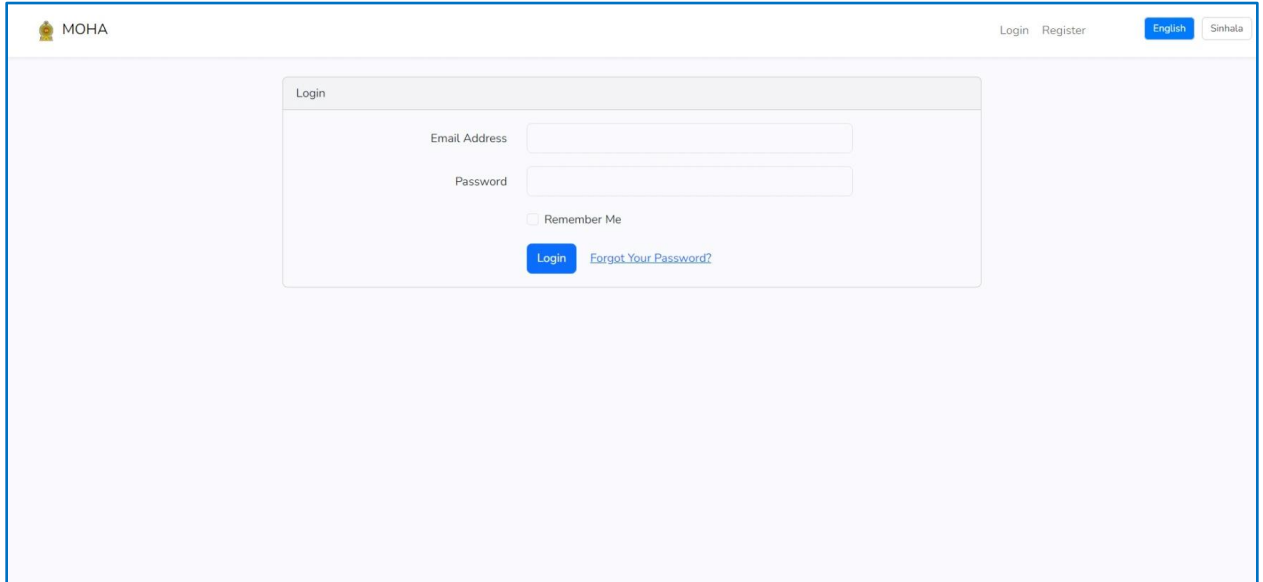
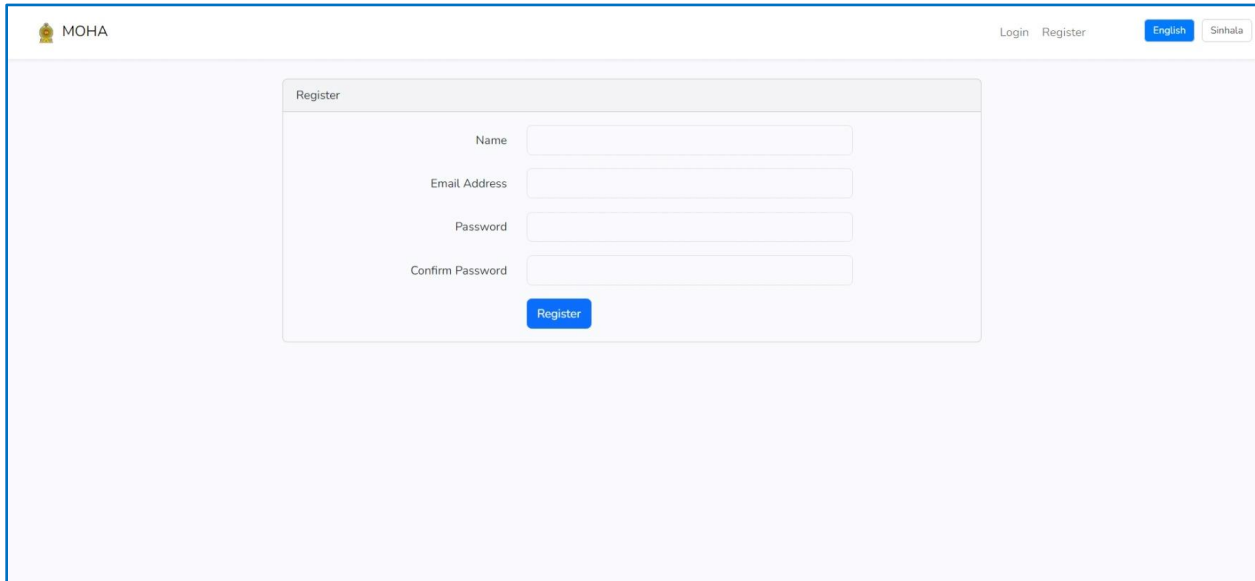


Figure 2 - Login Page

If a user has already created an account, User can log in by giving the Email Address and Password here. Or newly user can create an account using Register. Below is the registration page. There you can create an account by giving Name, Email Address, Password and Confirm Password.



The screenshot shows a web application interface for MOHA. At the top left is the MOHA logo. To its right are links for 'Login' and 'Register'. Further right are language selection buttons for 'English' (active) and 'Sinhala'. The main content area is a light blue box containing a 'Register' form. The form has a title 'Register' and four input fields: 'Name', 'Email Address', 'Password', and 'Confirm Password'. Below these fields is a blue button labeled 'Register'.

Figure 3 - Registration Page

When a new user logs in for the first time through a new account, you have to request to get the permissions to access the Land Management System. A message appears. The user has to request permission to use the account. Click Request Permission for that. Then a message appears to the user as your request has been submitted successfully. Then your request is pending. Another message will appear as please wait until it's approved. Then Super Admin will check the account and give permission to the account.

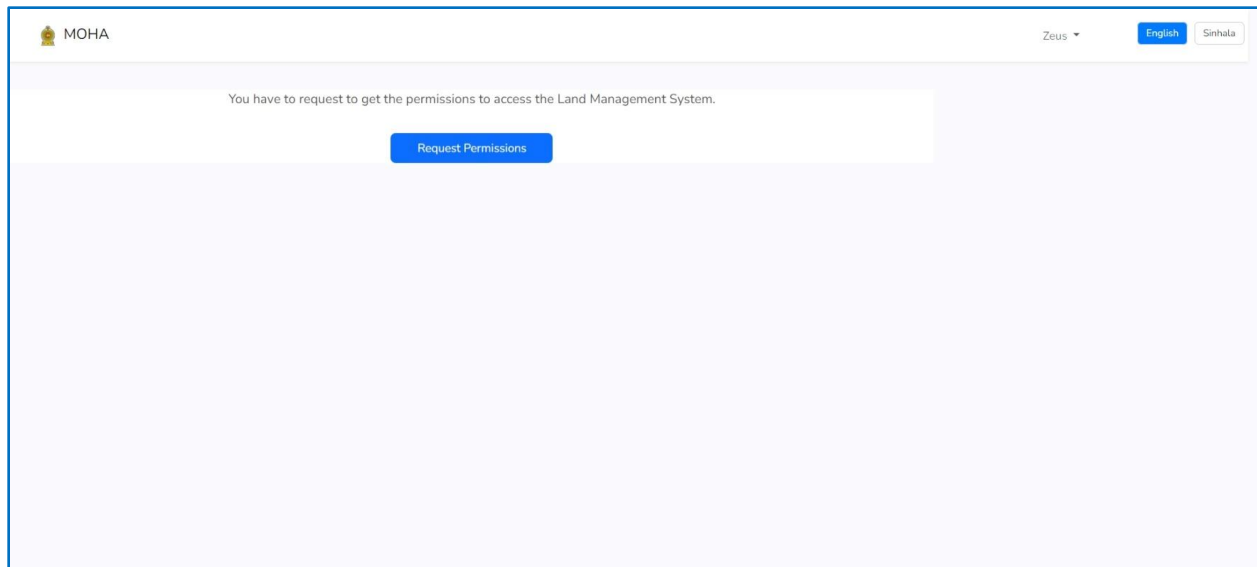


Figure 4 - Request Permissions

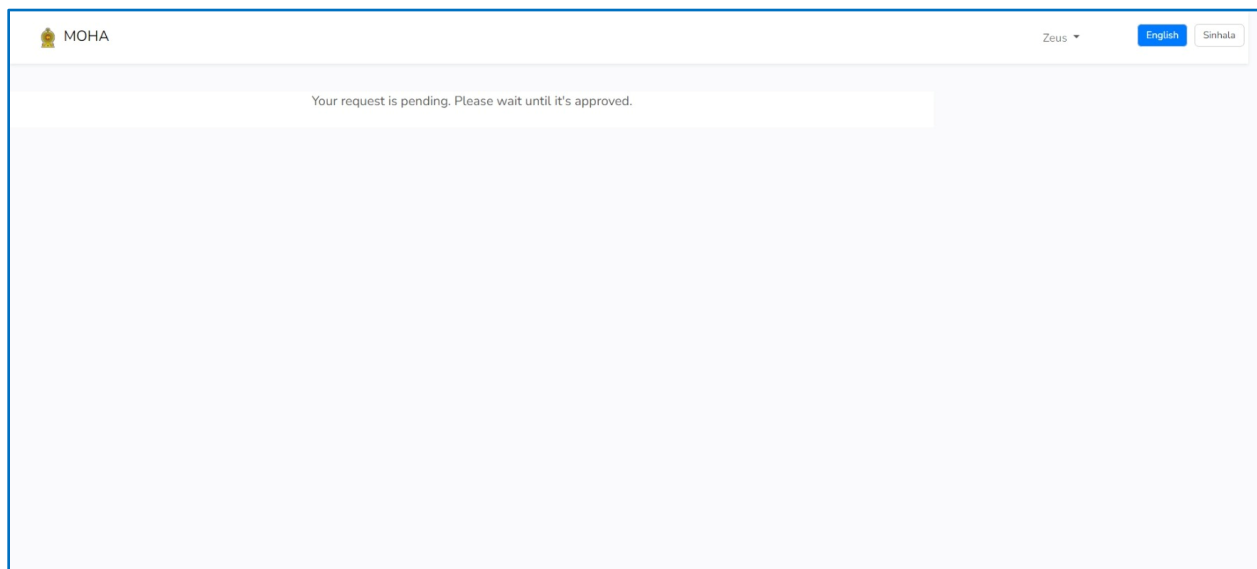


Figure 5 - Pending Request

This shows the Super Admin Interface. The buttons shown here are navigation for each function. First, super admin needs to assign roles to the newly created user. So go to Manage User Roles for that. The orange color here shows the users who are currently waiting for permission.

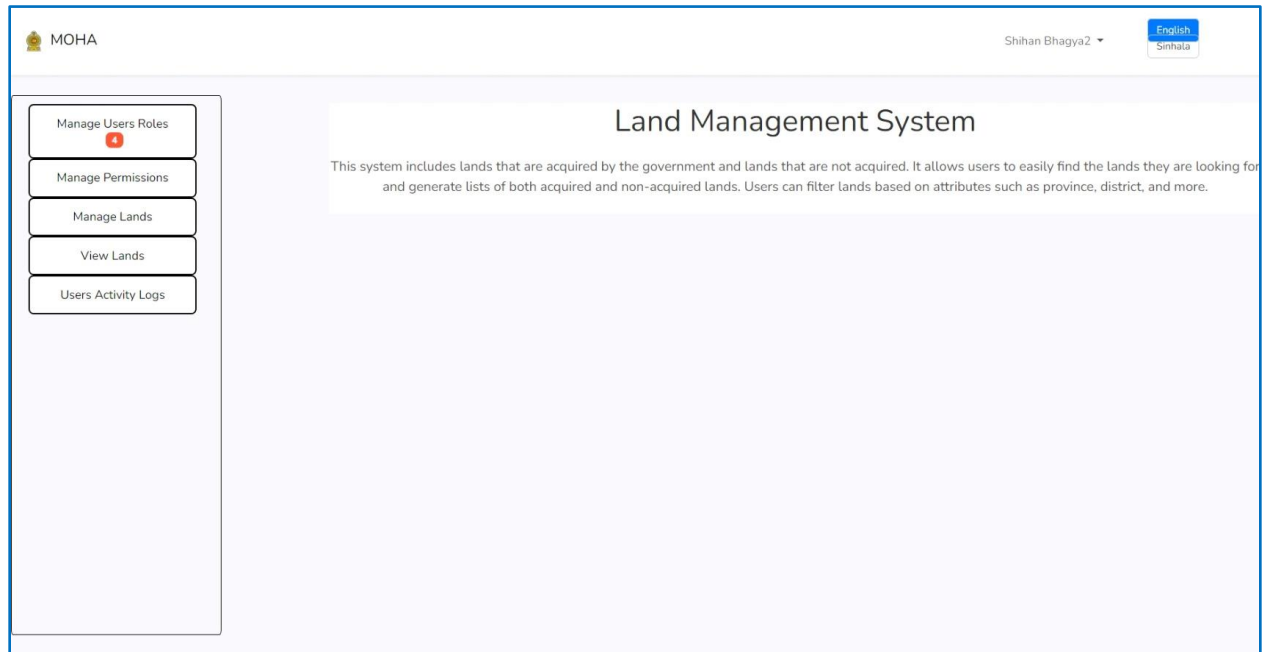


Figure 6 - Super Admin Interface

This is the page that appears after clicking Manage User Roles. Here are the users who are currently assigned roles. Here, Requested for User Role shows the people who are currently waiting for Roles. They are blocked from logging into the system until the Super Admin gives them the respective Roles.

Manage Users Roles

Manage Permissions

Manage Lands

View Lands

Users Activity Logs

Shihan Bhagya2

English

Sinhala

Users

Name	Email	Roles	Actions
Shihan Bhagya2	withanageshihan@gmail.com	admin, Super Admin	Edit <button>Delete</button>
Admin Admin	admin@gmail.com	Primary User	Edit <button>Delete</button>
Akeel Moha	akil@gmail.com	Primary User	Edit <button>Delete</button>
New User Test	test@gmail.com	Primary User	Edit <button>Delete</button>
rsmi	rsmi@gmail.com	Primary User	Edit <button>Delete</button>
Rashmi	rashmi@gmail.com	Primary User	Edit <button>Delete</button>
bhagya wijesekara	bhagya.wijesekara@gmail.com	Primary User	Edit <button>Delete</button>
new4	new4@gmail.com	Requested For User Role	Edit <button>Delete</button>
new5	new5@gmail.com	Requested For User Role	Edit <button>Delete</button>
new6	new6@gmail.com	Requested For User Role	Edit <button>Delete</button>

<

1

2

>

Figure 7 - User Management

This is the request of the new user.

Users

Name	Email	Roles	Actions
Gayan	gayan982822513.lk@gmail.com	Primary User	Edit <button>Delete</button>
Test	gayan@gmail.com	Primary User	Edit <button>Delete</button>
Zeus	zeus@gmail.com	Requested For User Role	Edit <button>Delete</button>

<

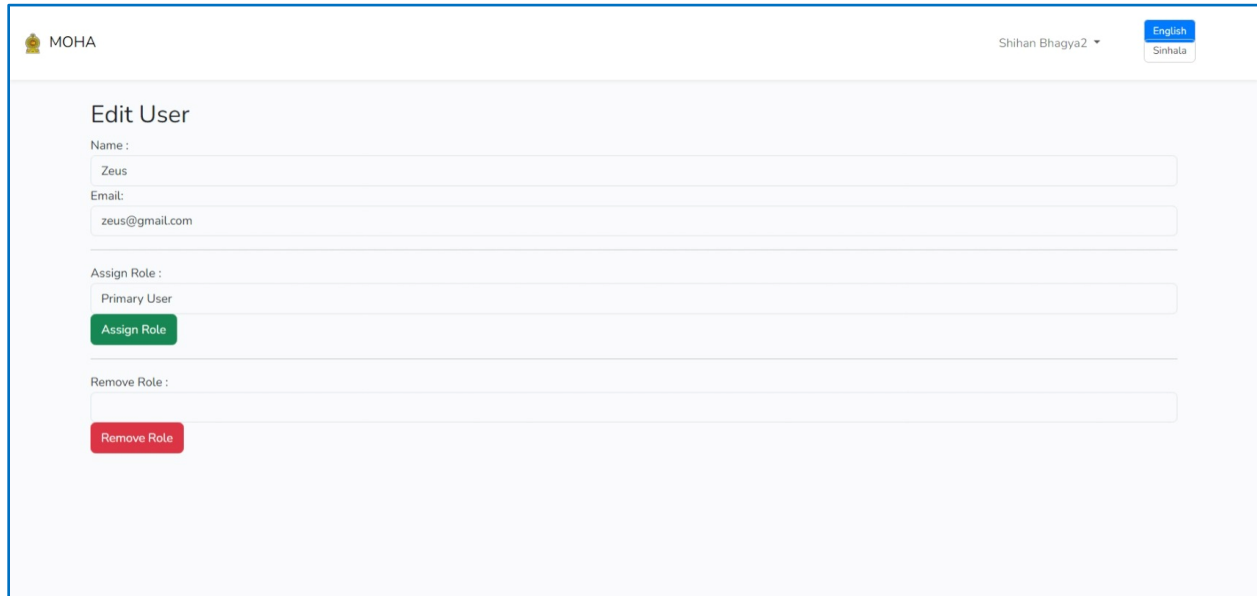
1

2

>

Figure 8 - New Created User Request

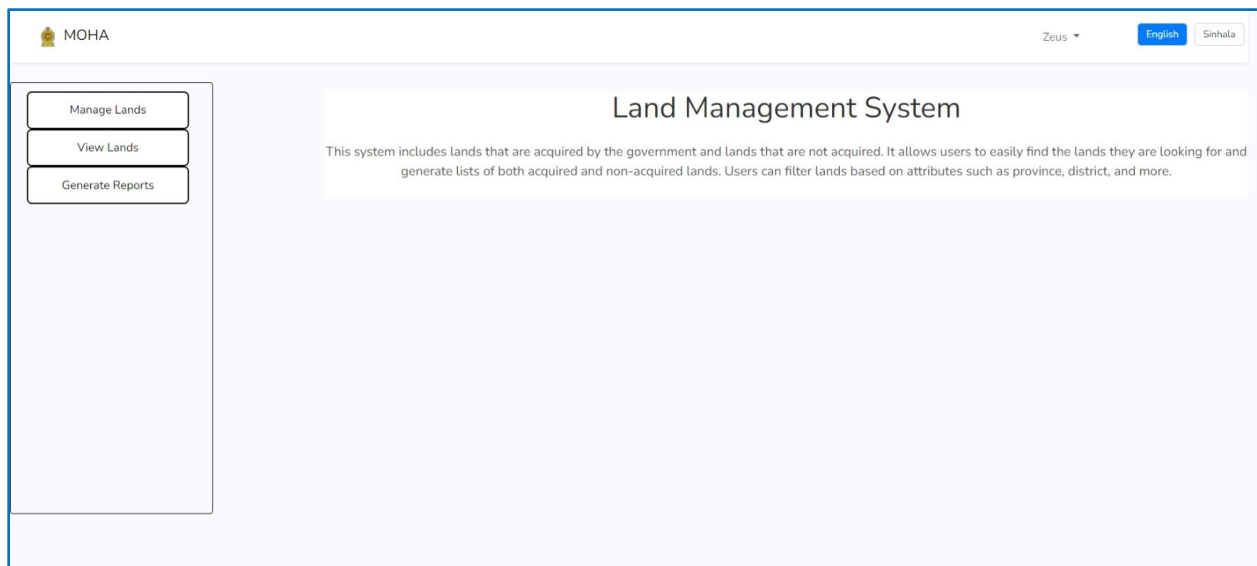
Click Edit to assign Roles to the new user. Or you can remove the new user from the system. Then Roles can be given to the user through Assign Role. Here Primary User can be given or the new member can also be appointed as an admin. Also, the user's role can be removed through Remove Role.



The screenshot shows the 'Edit User' form in the MOHA system. The form is titled 'Edit User' and contains three sections: 'Name', 'Email', and 'Assign Role'. The 'Name' field is labeled 'Name :' and contains the text 'Zeus'. The 'Email' field is labeled 'Email:' and contains the text 'zeus@gmail.com'. The 'Assign Role' section is labeled 'Assign Role :' and contains a dropdown menu with 'Primary User' selected. Below the dropdown menu is a green button labeled 'Assign Role'. There is also a 'Remove Role' section with a red button labeled 'Remove Role'. The top of the page shows the MOHA logo, the user name 'Shihan Bhagya2', and language selection buttons for 'English' and 'Sinhala'.

Figure 9 - Role Assigning to User

After giving Role to Primary User, related buttons and other things will be displayed on his interface. Below are the permissions given to the new user by a given role.



The screenshot shows the 'Land Management System' interface for a Primary User. The page is titled 'Land Management System' and contains a description: 'This system includes lands that are acquired by the government and lands that are not acquired. It allows users to easily find the lands they are looking for and generate lists of both acquired and non-acquired lands. Users can filter lands based on attributes such as province, district, and more.' On the left side, there is a sidebar with three buttons: 'Manage Lands', 'View Lands', and 'Generate Reports'. The top of the page shows the MOHA logo, the user name 'Zeus', and language selection buttons for 'English' and 'Sinhala'.

Figure 10 - Primary User Role

Primary User has Manage Lands, View lands and Generate Reports features. Manage Lands has Create Land and View Acquired Estate.

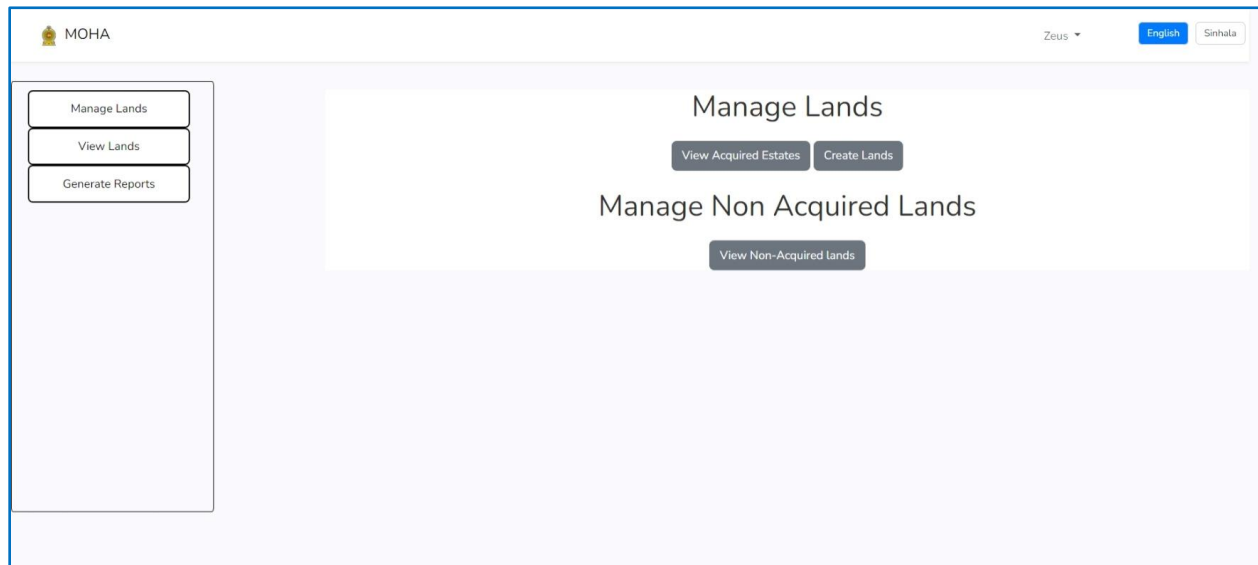


Figure 11 - Manage Lands

Admin, Super Admin and Primary User can be specified as User Type in Manage permissions in Super Admin's Interface. The Assigned Permissions column shows the Permissions currently used for those Roles. You can add more permissions by selecting the remaining permissions in the Select Permissions and clicking the Assign Permissions button. This provides security that allows users to log in and not log in.

Manage Users Roles

Manage Permissions

Manage Lands

View Lands

Users Activity Logs

Shihan Bhagya2

English

Sinhala

User Types and Permissions

Create Permission

User Type	Assigned Permissions	Select Permissions	Action
admin	manage-estates , view-estates , view-admin-users , manage-permissions , view-non-estates , manage-non-estates , show-system-desc	<input type="checkbox"/> view-report <input type="checkbox"/> view-bungalow <input type="checkbox"/> view-vehicle <input type="checkbox"/> view-activity-log <div>Assign Permissions</div>	View Assigned Permissions
Super Admin	view-activity-log , show-system-desc	<input type="checkbox"/> manage-estates <input type="checkbox"/> view-estates <input type="checkbox"/> view-admin-users <input type="checkbox"/> manage-permissions <input type="checkbox"/> view-non-estates <input type="checkbox"/> manage-non-estates <input type="checkbox"/> view-report <input type="checkbox"/> view-bungalow <input type="checkbox"/> view-vehicle <div>Assign Permissions</div>	View Assigned Permissions
Primary User	manage-estates , view-estates , view-non-estates , view-report , show-system-desc	<input type="checkbox"/> view-admin-users <input type="checkbox"/> manage-permissions <input type="checkbox"/> manage-non-estates <input type="checkbox"/> view-bungalow <input type="checkbox"/> view-vehicle <input type="checkbox"/> view-activity-log <div>Assign Permissions</div>	View Assigned Permissions

Figure 12 - Permission Page

And the View Assigned Permissions available in the Action provides the necessary facilities to view the currently granted Permissions and to Update Permissions. An option to Delete Permissions is also provided here.

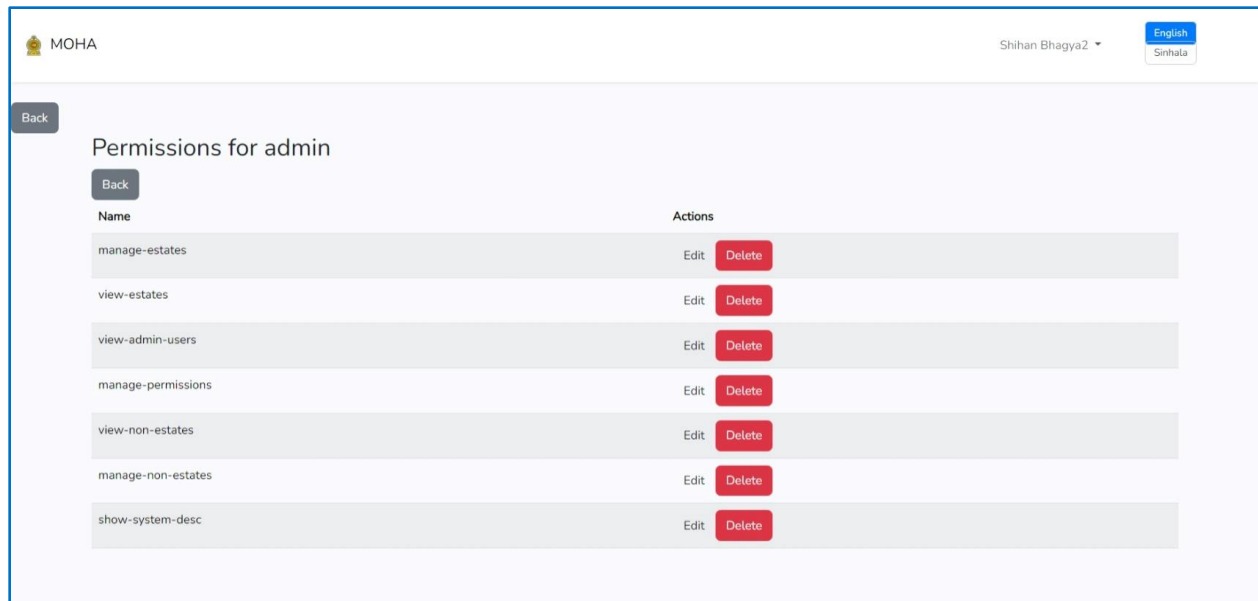


Figure 13 - Permissions Edit Page

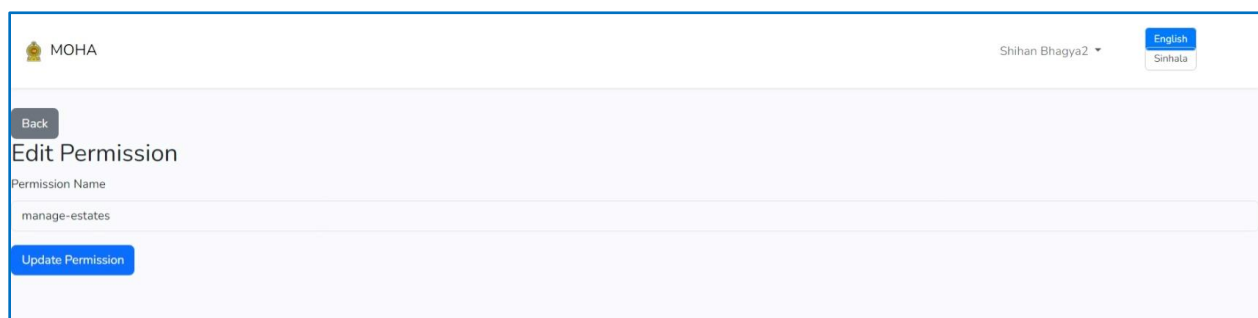


Figure 14 - Edit Permission

The Create Permission provided here also facilitates the creation of new Permissions.

MOHA

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Sinhala

Back

Create Permission

Permission Name

Create Permission

Figure 15 - Create Permission Page

There is a Manage Lands, View lands section for a user to update the data about the lands they need in the system. Here, there is this section to directly enter data about a certain land into the system by Create Lands under Manage Lands.

MOHA

Shihan Bhagya2

English
Sinhala

Manage Users Roles

Manage Permissions

Manage Lands

View Lands

Users Activity Logs

Manage Lands

View Acquired Estates Create Lands

Manage Non Acquired Lands

View Non-Acquired lands Create Non-Acquired Lands

Figure 16 - Manage Lands and View Land Page

And after creating a Land, press the View Acquired Estate button to view it in the data system. Then automatically moves to the database. Or you can go to this section from the main menu.

The screenshot shows the 'Land Details Form' interface. At the top, there's a header with 'MOHA' on the left, a user profile 'Shihan Bhagya2' in the center, and language options 'English' and 'Sinhala' on the right. The form itself has a title 'Land Details Form' at the top. Below the title, there's a 'Back' button on the left and a 'View Acquired Estates' link on the right. The form is divided into several sections with input fields: 'Province', 'District', and 'Divisional Secretariat' in the first row; 'Grama Niladari Division' in the second row; 'Land Situated Village', 'Acquired Land Name', and 'Acquired Land Extent' in the third row; 'Total Extent Allotment Included', 'Claimant Name and Address', and 'Office File Recorded' in the fourth row; 'Land Acquired Purpose' and 'Land Acquisition Certificate' in the fifth row. The 'Land Acquisition Certificate' field has a 'Choose File' button and 'No file chosen' text. Below these is a 'Plan Availability' dropdown menu set to 'No'. At the bottom, there's a 'Boundaries of Land' text area and a 'Submit' button.

Figure 17 - Create Land Page

Below is the View Acquired Estate section. Filters have been used to find the required land data and thus the data of the districts can be obtained separately. Also Land Acquisition Certificate and Plan Image can be downloaded from Acquired Land Details. Also, by pressing the show button in the Action, a complete description of the data can be taken and it can be updated. The data can also be removed by Delete. You can also get details and update the data through View Full.

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Search estates

Search

Select Province

Select District

Select Divisional Secretariat

Select Grama Niladari Division

Filter

Acquired Land Details

Estate ID	Province	District	Divisional Secretariat	Grama Niladari Division	Land Acquisition Certificate	Plan Availability	Plan No and Lot No	Plan Image	Boundaries of Land	Action	Action
4	Southern	Galle Unawatuna	Habaraduwa	bona vista	Download	Yes	Not Available	Download	100 m to north , 50 m to south	Show Delete	View Full
5	Western	Kaluthara	kaluthara north	kaluthara north	Download	Yes	45821554 , 4512245	Download	100 m to north , 50 m to south	Show Delete	View Full
6	Eastern	Batticaloa	Batticaloa North	Batticaloa	Download	Yes	45821554 , 4512245	Download	100 m to north , 50 m to south	Show Delete	View Full
7	Western	Colombo	Nugegoda	Nugegoda North	Download	Yes	0000213002201	Download	100 m to north , 50 m to south	Show Delete	View Full
8	Uva Province	Badulla	Badulla	Badulla North	Download	Yes	0000213002201	Download	100 m to north , 50 m to south	Show Delete	View Full
9	Central Province	Matale	Matale	Matale north	Download	Yes	00012012014	Download	100 m to north , 50 m to south	Show Delete	View Full
10	Sabaragamuwa	Ratnapura	Ratnapura	Ratnapura north	Download	Yes	00001201201	Download	100 m to north , 50 m to south	Show Delete	View Full
11	Southern	Hambanthota	Mademulana	Mademulana North	Download	Yes	45821554	Download	100 m to north , 50 m to south	Show Delete	View Full
12	Southern	Matara	kamburupitiya	kamburupitiya north	Download	Yes	Not Available	Image Not Available	100 m to north , 50 m to south	Show Delete	View Full
14	Eastern	Ampara	Iginiyagala	Iginiyagala north	Download	Yes	0000213002201	Download	100 m to north , 50 m to south	Show Delete	View Full

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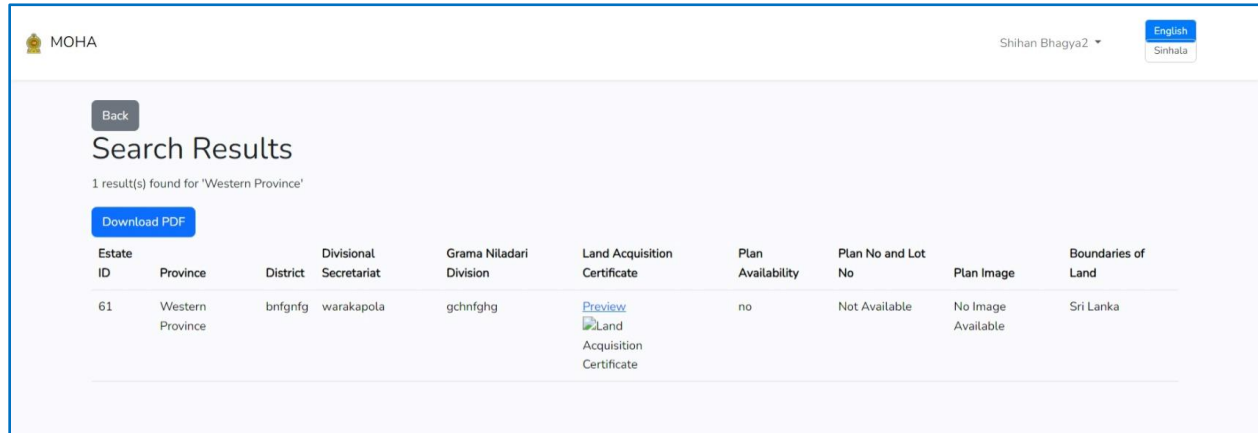
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Figure 18 - View Acquired Estate

Also, facilities have been provided to download the data obtained by using filters to download the data related to a particular district.




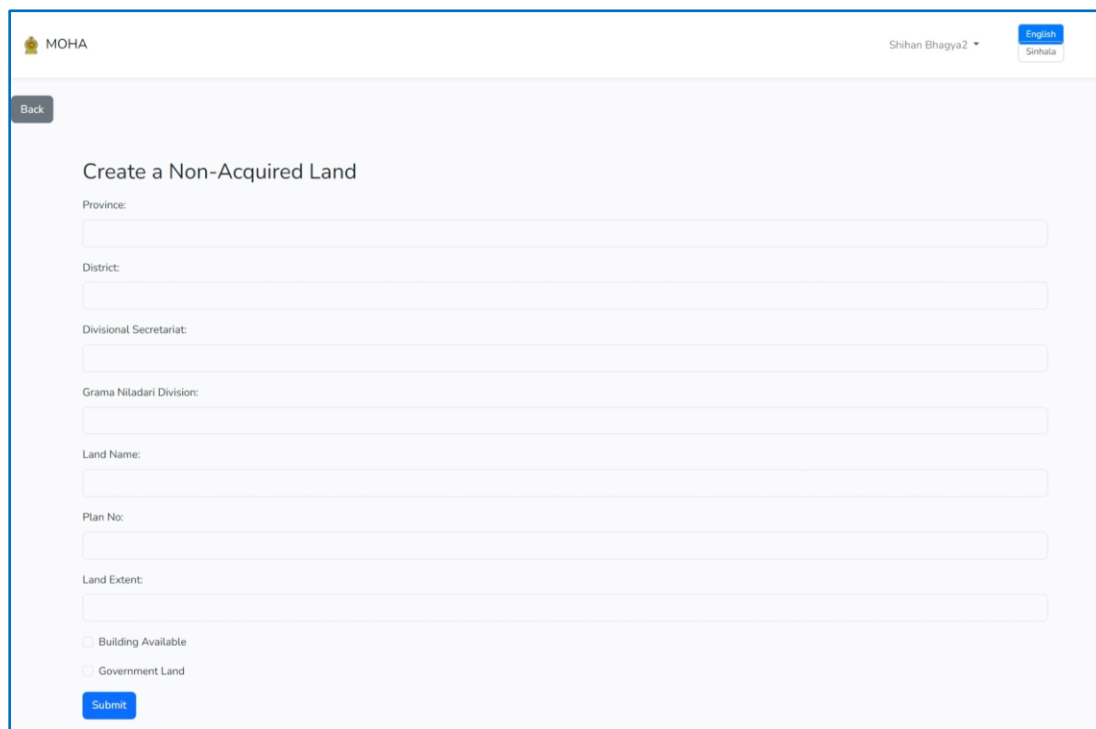
Estate ID	Province	District	Divisional Secretariat	Grama Niladari Division	Land Acquisition Certificate	Plan Availability	Plan No and Lot No	Plan Image	Boundaries of Land
61	Western Province	bnfgnfg	warakapola	gchnfghg	Preview 	no	Not Available	No Image Available	Sri Lanka

Figure 19 - Filtering Details and Downloading Details as PDF

The next section is Manage Non Acquired Lands. Let's first consider Create Non-Acquired Lands. Users can also enter Create a Non-Acquired Land into the system.



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Create a Non-Acquired Land

Province:

District:

Divisional Secretariat:

Grama Niladari Division:

Land Name:

Plan No:

Land Extent:

☐ Building Available

☐ Government Land

Submit

Figure 20 - Create Non-Acquired Land

Below is the Non Acquired Land Details section. Here, like Acquired Land, you can Edit, Delete, and View Full to get a complete description of the data as well as update the data.

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Sinhala

Back

Search estates

Search

Select Province

Select District

Select Divisional Secretariat

Select Grama Niladari Division

Filter

Non Acquired Land Details

ID	Province	District	Divisional Secretariat	Grama Niladari Division	Land Name	Plan No	Land Extent	Building Available	Building Name	Government Land	Action
14	Western	Colombo	Colombo	Dehiwala	Dehiwala Estate	9876543210	15.50	No		No	<div>Edit</div> <div>Delete</div> <div>Move to Acquired Estate</div> <div>View Full</div>
15	Central	Kandy	Kandy	Peradeniya	Peradeniya Retreat	6325987410	32.25	Yes	Guest House	Yes	<div>Edit</div> <div>Delete</div> <div>Move to Acquired Estate</div> <div>View Full</div>
16	Northern	Jaffna	Jaffna	Nallur	Nallur Heights	9870365214	15.75	Yes	Residential Complex	No	<div>Edit</div> <div>Delete</div> <div>Move to Acquired Estate</div> <div>View Full</div>
18	Southern	Matara	Matara	Weligama	Weligama Greenery	5123078946	16.75	Yes	Beach Resort	No	<div>Edit</div> <div>Delete</div> <div>Move to Acquired Estate</div> <div>View Full</div>
19	North Western	Kurunegala	Kurunegala	Kuliyapitiya	Kuliyapitiya Orchards	6741295083	29.50	No		Yes	<div>Edit</div> <div>Delete</div> <div>Move to Acquired Estate</div> <div>View Full</div>
20	Uva	Badulla	Badulla	Haldummulla	Haldummulla Meadows	7893012456	14.25	Yes	Tea Plantation	No	<div>Edit</div> <div>Delete</div> <div>Move to Acquired Estate</div> <div>View Full</div>

Figure 21 - Non Acquired Land Details

Also for this section, the user is also allowed to download the selected data in PDF format using filters.

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Non Estate Search Results

3 result(s) found for 'Western'

Download PDF

Non Estate ID	Province	District	Divisional Secretariat	Grama Niladari Division	Land Name	Plan No	Land Extent	Building Available	Building Name	Government Land
14	Western	Colombo	Colombo	Dehiwala	Dehiwala Estate	9876543210	15.50	No		No
19	North Western	Kurunegala	Kurunegala	Kuliyaipitiya	Kuliyaipitiya Orchards	6741295083	29.50	No		Yes
22	Western	Kalutara	Kalutara	Panadura	Panadura Villas	1237890456	19.75	Yes	Luxury Apartments	Yes

Figure 22 - Filtering and Download Details as PDF Format

Also, there are facilities to send from Non-Acquired Land to Acquired Land. For that purpose, the Move to Acquired Estate button in the Non Acquired Land Details section has provided facilities to send the relevant data to Acquired Land by providing and submitting the data required to be updated.

Select District

Select Divisional Secretariat

Select Grama Niladari Division

Filter

Land Situated Village

Acquired Land Name

Acquired Land Extent

Total Extent Allotment Included

Claimant Name and Address

Office File Recorded

Land Acquired Purpose

Land Acquisition Certificate

Choose File No file chosen

Plan Image

Choose File No file chosen

Plan Availability

Yes

Plan No and Lot No

Boundaries of Land

Submit

Close

building name

Government Land

Action

No

Edit

Delete

View Full

Move to Acquired Estate

uest House

Yes

Edit

Delete

View Full

Move to Acquired Estate

residential complex

No

Edit

Delete

View Full

Move to Acquired Estate

14

Western

Colombo

Colombo

Deh

15

Central

Kandy

Kandy

Per

16

Northern

Jaffna

Jaffna

Nall

18

Southern

Matara

Matara

Weligama

Weligama

5123078946

16.75

Yes

Beach

No

Edit

View Full

Figure 23 - Move to Acquired Estate

Also, Users Activity Logs have been used to monitor certain activities performed by users in the system. This allows monitoring of all processes in the system.

MOHA

Manage Users Roles

Manage Permissions

Manage Lands

View Lands

Users Activity Logs

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Users Activity Logs

Log Id	Name	Description	Subject	Causer	Properties
113	default	User was created	28 (App\Models\User)	(messages.unknown_user_log)	{ "attributes": { "name": "Zeus", "email": "zeus@gmail.com" } }
112	default	User was updated	26 (App\Models\User)	26 { gayan982822513.lk@gmail.com }	{ "attributes": { "name": "Gayan", "email": "gayan982822513.lk@gmail.com" }, "old": { "name": "Gayan", "email": "gayan982822513.lk@gmail.com" } }
111	default	User was updated	26 (App\Models\User)	(messages.unknown_user_log)	{ "attributes": { "name": "Gayan", "email": "gayan982822513.lk@gmail.com" }, "old": { "name": "Gayan", "email": "gayan982822513.lk@gmail.com" } }
110	default	User was updated	26 (App\Models\User)	26 { gayan982822513.lk@gmail.com }	{ "attributes": { "name": "Gayan", "email": "gayan982822513.lk@gmail.com" }, "old": { "name": "Gayan", "email": "gayan982822513.lk@gmail.com" } }
109	default	Estate was updated	62 (App\Models\Estate)	1 { withanageshihan@gmail.com }	{ "attributes": { "plan_availability": "yes", "boundaries_of_land": "564vbvcvbfghchch5454" }, "old": { "plan_availability": "1", "boundaries_of_land": "564vbvcbv" } }
107	default	Estate was created	62 (App\Models\Estate)	1 { withanageshihan@gmail.com }	{ "attributes": { "province": "Eastern", "district": "Trincomalee", "divisional_secretariat": "Trincomalee", "grama_niladari_division": "Trincomalee City", "land_situated_village": "Sri Lanka", "acquired_land_name": "Sri Lanka", "acquired_land_extent": "Sri Lanka", "total_extent_allotment_included": "hcgcc", "claimant_name_and_address": "Vakkala", "office_file_recorder": "gchcfc", "land_acquired_purpose": "chcfc", "land_acquisition_certificate": "certificate_1705", "plan_availability": "1", "plan_no_and_lot_no": "hjhvjv", "plan_image": "plan_1705645248.jpg", "boundaries_of_land": "564vbvcbv" } }
108	default	Non-Estate was deleted	25 (App\Models\NonEstate)	1 { withanageshihan@gmail.com }	{ "old": { "province": "Eastern", "district": "Trincomalee", "divisional_secretariat": "Trincomalee", "grama_niladari_division": "Trincomalee City", "estate_name": "Trinco Palms", "plan_no": "9876543210", "land_extent": "22.50", "building_available": 1, "building_name": "Holiday Bungalows", "government_land": 1 } }
106	default	Non-Estate was deleted	33 (App\Models\NonEstate)	1 { withanageshihan@gmail.com }	{ "old": { "province": "bvdxfbfg", "district": "bnfgnfg", "divisional_secretariat": "nfgnfgn", "grama_niladari_division": "gchnfggh", "estate_name": "fgnfgn", "plan_no": "fgnfgn", "land_extent": "32.00", "building_available": 1, "building_name": "sgertge", "government_land": 0 } }
105	default	Non-Estate was updated	33 (App\Models\NonEstate)	1 { withanageshihan@gmail.com }	{ "attributes": { "government_land": 0 }, "old": { "government_land": 1 } }
104	default	Non-Estate was created	33 (App\Models\NonEstate)	1 { withanageshihan@gmail.com }	{ "attributes": { "province": "bvdxfbfg", "district": "bnfgnfg", "divisional_secretariat": "nfgnfgn", "grama_niladari_division": "gchnfggh", "estate_name": "fgnfgn", "plan_no": "fgnfgn", "land_extent": "32.00", "building_available": 1, "building_name": "sgertge", "government_land": 1 } }

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Figure 24 - User Activity Logs