



# American International University- Bangladesh

## CSC 3222: Web Technologies

### CO1.1 and CO2.1 Evaluation

### Project Report

Summer 2021-22

Project Title: e-Land Tax

Section: H

Group No: G9

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# GOVT LAND TAX

## Introduction:

In today's world, E-governance sites have tremendous impact on socio-economic livelihood of people of the country. Adaptation of e-governance in Land Tax site to replace current human-executed processes, which involve accepting, storing, processing, outputting or transmitting land related all Details. The reason behind doing this Project is to build a Land Tax web application to secure all tax related things and be user-friendly in every aspect.

## Background Study

As a reference, we took the Ministry of land tax as our ideal web page. It's a well-organized website with all the features a user may ask for at any time. It is organized and contains all the necessary data. It provides users with a first-rate online experience and guarantees all services. We used an existing account to join in for research purposes so we could experience the site ourselves and learn more about the land tax.

## Requirement Analysis:

### 1. User Category:

There are 4-types of Users here. They are:

- Admin
- Govt. Officials
- Accountant
- Land\_Owner

### 2. Feature List:

In this project the “Admin” has the following features:

- View user with search.
- Add new govt officer.
- Add new user.
- Delete user.
- Update user info.
- Mail.

In this project the “Govt\_Officers” has the following features:

- Update profile and edit
- View user details and update
- View user land quantity.
- Empty user details.



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- Add land user
- Delete land user
- Mail.

In this project the “Accountant” has the following features:

- View & update own profile.
- View user details with search option.
- Update User Tax (delete, edit)
- Add Tax (Home, Cultivate)
- Tax Payer List
- Email.

In this project the “Land\_Owner” has the following features:

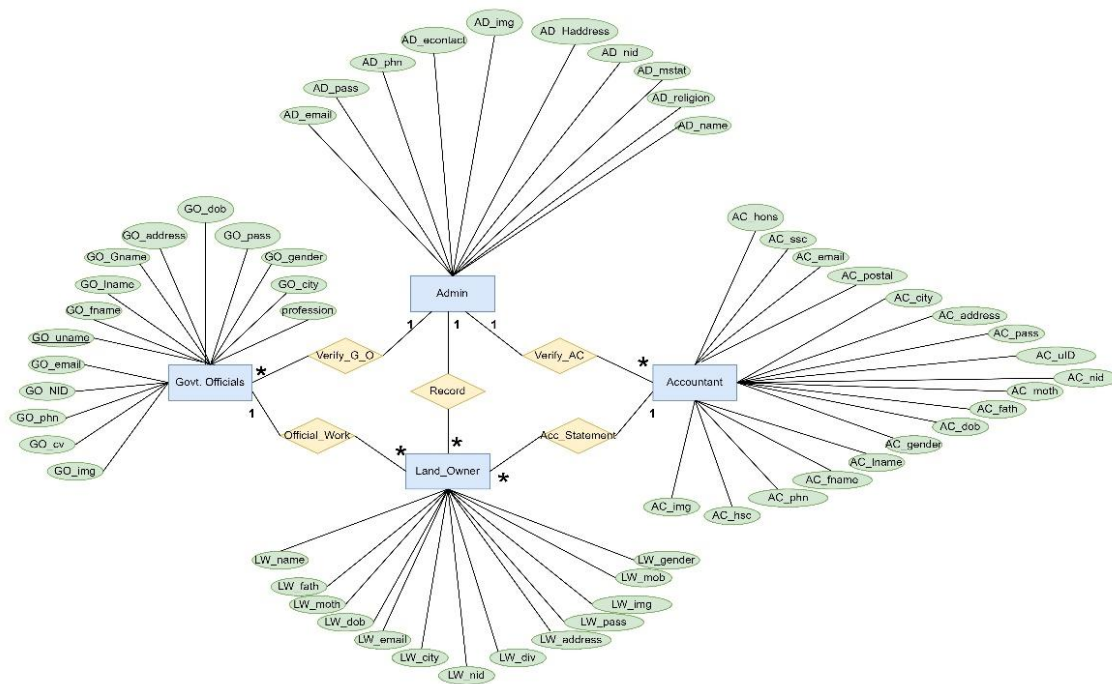
- View current land tax
- View current cultivation land tax
- View tax pay history
- View profile and update
- Change profile picture
- Can lease land
- Complaint about land related issue

ER Design:

e-LAND\_TAX



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Tools Used:

To develop this project, we have used the following:

- Visual Studio Code.
- Apache (XAMPP)
- Browser (Chrome)
- draw.io
  - Microsoft PowerPoint.

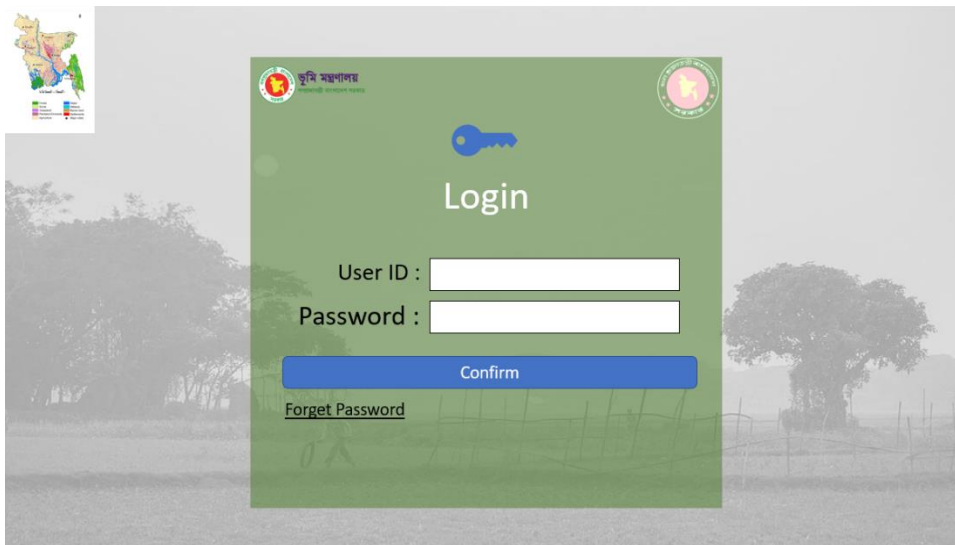
System Images against the Specification:



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This is the home page of our website. Here 5 buttons will be present. There will be a home button, Help button and About button. Home will be able to bring the user in the home page and in help there will be contact information. There will be a login and a registration button at the upper right corner from where the user will be able to Login and open a new account. There will be a notice board in the home page where the daily updates or important notices will be announced. Beside these there will be a picture of the land minister and the councilor.



Here in the login page, It's the first page that users see in the modified application. It provides two text fields - one for entering a user id and one for entering a password. In addition, it has a command button confirmed.



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The image shows a web form titled "Registration" for "ভূমি সঞ্চালনা" (Land Management). It is the "Personal Info" section. The form includes fields for Full Name (with a dropdown for Mr, Mrs, etc.), Father Name, Mother Name, Date of Birth (with a calendar icon), National ID no, and Gender (radio buttons for Male, Female, Other). There are "Submit" and "Reset" buttons at the bottom.

In this page the user will have to give their personal information such as their name, their parent's names and their date of birth, NID and Gender. There will be 2 buttons here one submits which will lead to the next page and the reset button will reset the information.



The image shows a web form titled "Registration" for "ভূমি সঞ্চালনা" (Land Management). It is the "Address & Contact Info" section. The form includes fields for Mobile number (with a dropdown for 01XXX-XXXXXX), Email (with a dropdown for example@gmail.com), Division (with a dropdown for Dhaka), City (with a dropdown for Enter your city), and Address (with a dropdown for Enter your address). There are "Submit" and "Reset" buttons at the bottom.

In this page the user has to give their address and contact information. Their phone number, their email, division and city will be taken here. There will be 2 buttons here one submits which will lead to the next page and the reset button will reset the information.

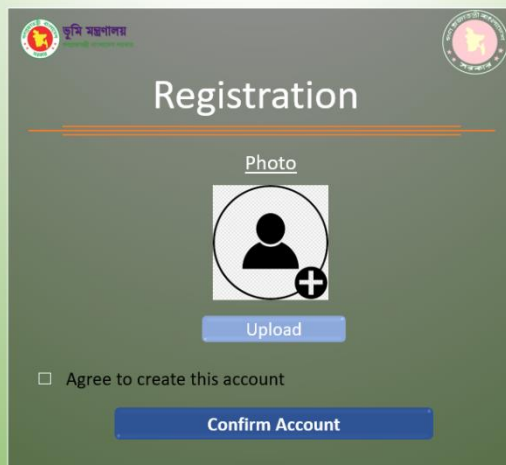


## GOVT LAND TAX



The screenshot shows a 'Registration' form with a header containing two logos. The form is titled 'Registration' and has a section labeled 'Other Info'. It contains the following fields: 'Create password' with a placeholder '01XXX-XXXXXX', 'Email' with 'example@gmail.com', 'Division' with a dropdown menu showing 'Dhaka', 'City' with 'Enter your city', and 'Address' with 'Enter your address'. At the bottom, there are two buttons: 'Submit' (orange) and 'Reset' (blue).

The user must create a password in this page and provide an email, address and their city here. There will be 2 buttons here one submits which will lead to the next page and the reset button will reset the information



The screenshot shows the next step of the 'Registration' form. It has a header with the same two logos. The form is titled 'Registration' and has a section labeled 'Photo'. It contains a circular placeholder for a photo with a plus sign icon. Below the photo placeholder is an 'Upload' button. At the bottom, there is a checkbox labeled 'Agree to create this account' and a 'Confirm Account' button.

In this page the user has to submit a picture of themselves. The upload button will open up a window to choose an image and upload that. There will be a button to "Confirm Account" which will complete the registration.



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The screenshot shows the Admin Panel interface. At the top, there is a header with the text "REPUBLIC OF BANGLADESH – LAND TAX" and a logo. Below the header, there is a green bar with a user profile icon and a logout button. The main content area displays a "Welcome Admin Panel." message followed by a table of statistics:

Total user	:	167288
Govt Service Holder	:	712
Accountant	:	40
Total Collect Tax	:	7893874 tk
Previous year earn	:	89738495 tk

Below the table, there are five buttons: "View User/Search", "Add new Govt officer", "Add new Accountant", "Delete User", and "Update user info".

An admin panel or a control panel is a system that enables administrators and other website workers to conduct various tasks like monitoring, maintaining, and controlling certain business processes. Here the admin panel can see total user, year income, total tax collection, govt service holder.

The screenshot shows the Accountant Dashboard interface. At the top, there is a header with the text "REPUBLIC OF BANGLADESH – LAND TAX" and a logo. Below the header, there is a blue bar with a user profile icon and a logout button. The main content area displays a "Welcome (user\_name) to Accountant Dashboard." message followed by a table of statistics:

Total user	:	167288
Tax Pay	:	77349
Collect Tax	:	7893874 tk
Previous year earn	:	89738495 tk

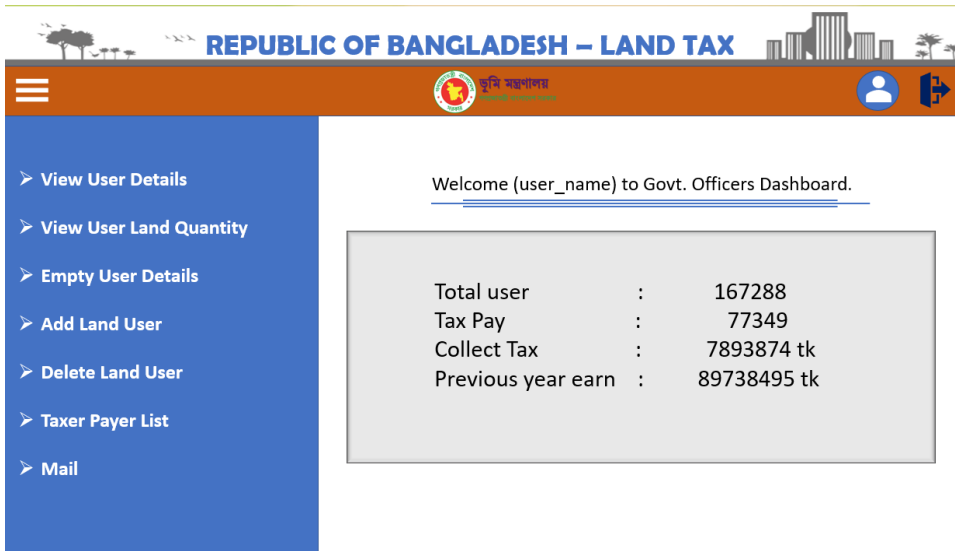
On the left side, there is a blue sidebar with a list of menu items: "View User Details", "View User Land Quantity", "Update", "Add Tax" (with sub-items "House" and "Cultivate Land"), "Taxer Payer List", and "Mail".

This is what an accountant sees after login. This user can view land owner details and land quantity. Can update tax amount can also add House, cultivate land tax. Can see tax payer list. Can use department's own mail service

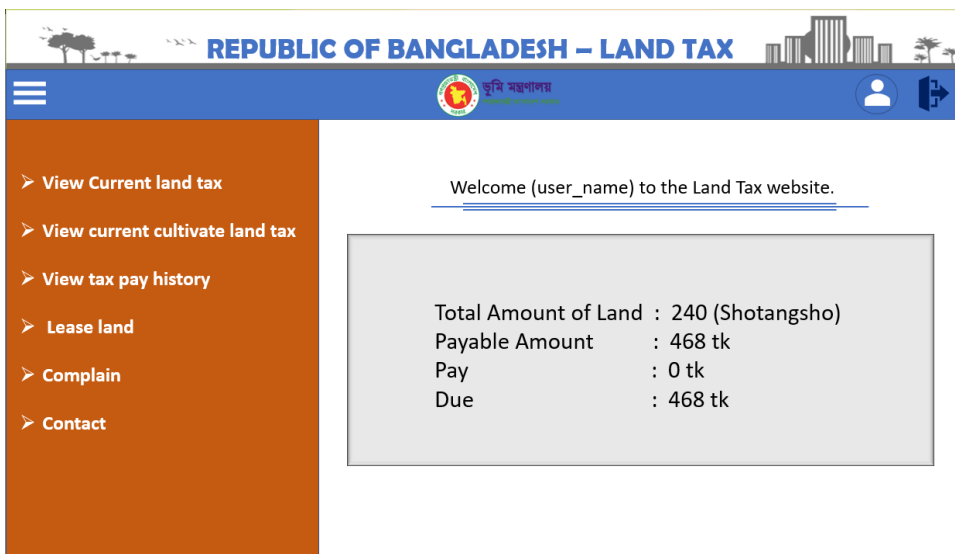




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This is what a government officers sees after login. This user can view land owner details and land quantity. Can add land user by verifying land owner documents. Can also delete a land owner Can see tax payer list. Can use department's own mail service.



After login the land owner will come to his/her home page where the land owner will see his total amount of land, how much tax he has to pay. How much he has already paid and how much due amount left. a land owner can also view his current land, cultivate land, tax pay history. He can also take other services like lease land from the government and give complain about land related issue.

## Impact of this Project:

E-government websites today have a significant impact on the socioeconomic well-being of the nation's citizens. Adapting e-governance to the Land Tax website to replace the human-executed systems now in place that accept, store, process, output, or transmit land-related data. There are a lot of sites which scams people but our site will make sure to ensure the best possible security for the users. Their data will be safe



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and in the modern society data is everything. Our site will be using every energy saving ways possible to make sure the servers are running so the environment doesn't get disturbed because of us.

### Limitations and Possible Future Improvements:

#### Limitations:

- Officials and accountants account does not get verified automatically. They have to wait for verification then can log in.
- Land owners must wait for government officials to confirm their land amount.

#### Future improvements:

- More tax services can be added.
- Mobile banking payment gateway can be added.
- User interface can be improved.

CO1.1 and CO2.1 Evaluation: Project Report Evaluation					
Project Proposal (5)	Background Study (5)	Requirement Analysis (5)	Entity Diagram (5)	System Images against the Specification (5)	Total (25)

