

PropertyBD.com WEBSITE

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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DHAKA, BANGLADESH

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APPROVAL

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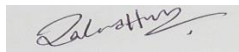


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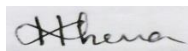


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I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree.

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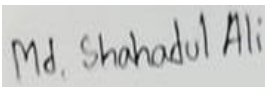
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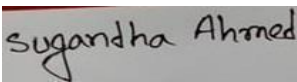


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Finally, I must acknowledge with due respect to my parents for their constant support.

ABSTRACT

In our country we do not find good Land Application easily. So this project will be a common platform for searching Land and Flat. The main purpose of this project System is to make a better solution for Land and Flat finding. The people can easily find land or flat making post will his/her all requirements, also a seller create his profile so than customer can find him/her. Seller can be create ads and connect with buyer or customer. This web application we used raw PHP (OOP), MySQL which make this application faster. We also used HTML, CSS and Bootstrap. Bootstrap for better web design and make this application responsive and user friendly.

TABLE OF CONTENTS

CONTENTS

PAGE

Declaration	i
Acknowledgement	ii
Abstract	iii
Board of examiners	iv
Table of Contents	v-vi
List of Figures	vii
List of Tables	ix

CHAPTER 1: INTRODUCTION

Introduction	1
Existing Systems and their Limitations	2
Objectives of this Project	2

CHAPTER 2: METHODOLOGY

Software Process Model	3
Agile Model	4
Requirements	4
Design	5
Implementation	5
Verification	5
Maintenance	6

Designing Tools	6
Developing Tools	6
CHAPTER 3: FEASIBILITY STUDY	
Technical Feasibility	7
Time Feasibility	7
Economic Feasibility	8
CHAPTER 4: SYSTEM DESIGN	
Architectural Design	9
Use Case Diagram	10
Use Case Description	11-12
CHAPTER 5: DATABASE DESIGN	
MYSQL:	13
DATABASE CONNECTION (PHP)	13
Entity Relationship Diagram	13
Schema Diagram:	14
Tables list of database:	15-16
CHAPTER 6: OVERVIEW AND VERIFICATION	
HOME PAGE	17-18
PROFILE PAGE	18
Login Form	19
Registration Form	20
Profile Update Form	21
Post Create Form	22
All Ads page	23
Seller Information	24
Property Summary	25
Blog Page	26
Test case Table	27

Test Case Table 2	28
Admin About Dashboard	29

CHAPTER 7: CONCLUSION

Limitations	30
Future Scopes	30

PLAGIARISM REPORT 31-32

LIST OF FIGURES

FIGURES	Pages
Figure 2.1: Agile Methodology	4
Figure 4.1: Architecture Design	10
Figure 5.1: Customer table	15-16
Figure 5.2: Post table	19
Figure 6.1: Home page	18
Figure 6.2: Login form	19
Figure 6.3: Registration Form	20
Figure 6.4: Profile Update Form	21
Figure 6.5: Post create Form	22
Figure 6.6: All Ads Post	23
Figure 6.7: Seller Information	24
Figure 6.8: property Summary	25
Figure 6.9: Blog page	26
Figure 6.10: Admin Dashboard	29

LIST OF FIGERS

LIST OF TABLES	PAGE NO
Table 4.3 Use case description	15-16
Table 6.10 Test case Table	27-28

CHAPTER 1

INTRODUCTION

- 1 **Introduction:** In this time internet is necessity for every people & the main part of internet is website. „Land Application“ is a web based project where we can find land or flat easily. To find land or flat now we do not need TO-LET poster because „Land Application“ is a common platform of seller and customer. If you need land just go to the website and create an account then make you profile and Post, the application system help you to give message to seller when, where, how many land or flat you want to price. On the other side if you need Seller for just create an account as Buyer and make Ads post. In the post you can location and contact information, and when a
- 2 buyer see your post he/she will contact with you.

The current systems on Seller and buyer finding are very easily. But in this project is used more digital technology like BOOTSTRAP and live searching system, also this project is faster than other and user friendly, because of responsive design all devise user can use this website easily. One of the biggest disadvantages of the current exam system is a Seller can create his/her profile more informative and specifically. Most of the existing web site only for create profile but just only create profile not enough to find property to better opportunity that's why this project come will new features called create Post. Seller can create one more Post for his/her different kind buyer and for different location. On the other side if a Buyer need Seller for their Seller they can make Ads post. In the post you can specified every single details about your seller and location and contact information, and when a Seller see your post he/she will contact with you.

Existing Systems and their Limitations

The current systems on Seller and buyer finding are very easily. But in this project is used more digital technology like BOOTSTRAP and live searching system, also this project is faster than

other and user friendly, because of responsive design all device user can use this website easily. One of the biggest disadvantages of the current exam system is a Seller can create his/her profile more informative and specifically. Most of the existing web site only for create profile but just only create profile not enough to find property to better opportunity that's why this project come will new features called create Post. Seller can create one more Post for his/her different kind buyer and for different location. On the other side if a Buyer need Seller for their Seller they can make Ads post. In the post you can specified every single details about your seller and location and contact information, and when a Seller see your post he/she will contact with you.

Objectives of my project and mentioned bellows:

- To make property finding system digital.
- To provide a common platform for Seller and Buyer.
- To provide an opportunity to the Buyer to find best Seller for property.
- To provide an opportunity to the Seller to find best property.
- To stop posting to-let post on the wall.

CHAPTER 2

METHODOLOGY

Software development methodology is an approach or process to develop a project, used by used by organizations or project teams. There are many models in this sector like Prototyping, Spiral, Waterfall, Agile etc. All of them agile is the best one. I also used agile methodology to develop this project.

AGILE METHODOLOGY:

In agile methodology developer and tester can work together. Client can make change anytime. And small project can be develop quickly. Any time error can be fixed. End of every released user client requirement is performed.

Loop of agile methodology

- Collect requirement
- Design database, design
- Build and code
- Test and released
- Make change



Figure 2.1: Agile Methodology

Requirement Analysis:

It is a process or technique to determine the user of client expectations for a project. It makes development process easy. In this project I also analysis requirement. I was collect data from my side who find and also collect data from internet like how can I make this process more users friendly and easy. It helps me to develop some new features like Post create.

Design:

In this step developer represent client's or user requirements using a programming language.

It can be divided into three parts

- Interface Design
- Architectural Design
- Detailed Design

-

Interface design: In this project I design the interface using HTML, CSS, JavaScript. Also make it responsive so that all device user can use the website easily. Also make it user friendly.

Architectural Design: In this step I design the database, design the file structure of the project. Also work with my localhost server for PHP.

Details Design: in this step I design some class of PHP like Database, SESSION, Errors handling. This step makes my development process so easy.

Implementation:

In this step I implement my idea with user requirements. To design the website I use HTML, CSS, BOOTSTRAP, JavaScript. Using HTML I build the structure of the website and using CSS build the looking of the website, and Bootstrap this responsive so that all device use can use the website. I user JavaScript to make this interactive, Like in index page auto typing is create by JavaScript, also some or click event and slider was build using JavaScript. To develop this project is use PHP, MYSQL and BOOTSTRAP, using PHP and MySQL I was build database like store fetch delete edit data. And to make the website cool I use BOOTSTRAP. Using BOOTSTRAP I can play with database without refresh webpage, this process make website more live.

Verification:Verification is a process to test or evaluate a project. In this step I tested my project and found some error also fixed them. I also tested is the project fulfill all of the requirements. In this step I invite one of my friends and tell him to use the project and verify all the process easily.

Maintenance:

After released software or project the maintenance part is come. It is very important part of the project development because after long time use of software it need some change to fixed some bug

Designing Tools

In my application is use HTML, CSS, JavaScript also use CSS framework Bootstrap make application more responsive and user friendly.

Developing Tools

In my application is developed by raw PHP in OOP approach. Also use , MYSQL, JavaScript and Bootstrap for better user friendly and interactive.

PHP (OOP)

PHP is server side language. That means it executed on the server. So if we want to work on

PHP we need a server. In my project I user XAMPP server to executed PHP. To display something in PHP the syntax is 'echo'.

Example: <? php

Echo "this is an example text";

?>

CHAPTER 3

FEASIBILITY STUDY

It is a process to analysis all relevant factors of a project like economic, technical, legal, time feasibility etc. In this chapter I will describe all of this feasibility of my project.

To describe feasibility of any project we need to find out answer of some question.

- What is the user's requirement?
- Is all resources are available to fulfill the user's requirements?
- Is it worth to implement the project?
- Is we have enough time to complete the all requirements?
- Impact of the project in organization

Technical feasibility:

Technical feasibility discuss is the technical resource of an organization is enough to implement a project. To implement my project all technical resource are available like server, localhost, editor, browser, programmer, debugger manpower, computer, tester, programming language. So this project easily passed technical feasibility.

Time feasibility: Time feasibility discusses is there enough time to implement a project. To implement my project I have one year time (fall-19 to summer20) and I think this is enough to implement this project. So this project easily passed time feasibility.

Economic feasibility:

It is the part of feasibility analysis where we analysis cost and benefit of a project. If implementation cost of a project is more than its benefit then it is not good idea to implement the project. In this case my project is web based and simple so cost of implement is not much, and when user use premium account to find tuition then the benefit wills more than cost. So this project easily passed economic feasibility.

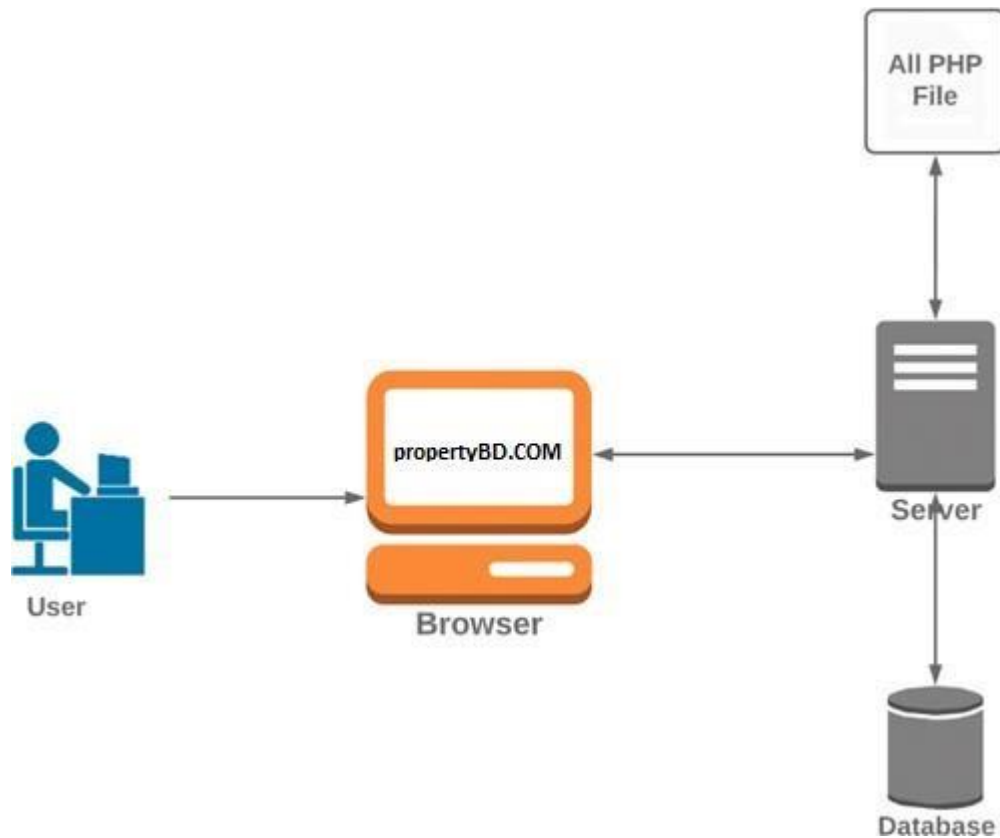
CHAPTER 4

System Design

Collection of process to represent a project is called system design process. Using those process we can describe architecture, modules, interfaces, requirements of a project. In this chapter I will show overall system design of my application, like architectural design, use-case diagram, flow chart and data flow diagram (DFD), Schema design, Entity relationship diagram etc.

Architecture Design:

- User come to the browser and type SellerBd.com
- Browser send request to server for the web page
- Server fetch data from database and send to the browser
- User see the web page to browse



• Figure 4.1: Architecture Design

Use case description:

Use Case No	1.1
Use Case Name	Registration
Actor	Seller, Buyer
Description	Allowing Seller or Buyer to registration to the system.
Precondition	Seller should remain in the registration page.
Trigger	Click the “Registration” Button.
Flow Of Events	Five text fields to give Registration form. Name, Email, Password, Confirm Password, User type.

	• Unique Email is required • Password and Confirm password must same • Fill all the fields and click registration Button
Post Condition	User should confirm email.

Use Case No	1.2
Use Case Name	Login
Actor	Seller
Description	Allowing Seller login to the system.
Precondition	Seller should registration into the system
Trigger	Click the “Login” Button.
Flow Of Events	• Two text fields to give Registration form. Email, Password. • Valid email • Password must be at least 8 characters long. • Fill all the fields and click Login Button
Post Condition	No Post condition

Use Case No	1.4
Use Case Name	Create Post
Actor	Seller
Description	Allowing Se to create his/her post to the system.
Precondition	Seller should login into the system
Trigger	Click the “Create” Button.
Flow Of Events	• Click Add new Post button • Fill up all the input fields like property name, property price, image, description, address etc.
Post Condition	No post condition

Use Case No	1.5
Use Case Name	Edit Post
Actor	Seller
Description	Allowing Se to edit his/her post to the system.
Precondition	Seller should login into the system
Trigger	Click the “edit button” Button.
Flow Of Events	Click Update button Fill up all the input fields like property name, property price, image, description, address etc.
Post Condition	No post condition.

Use Case No	1.6
Use Case Name	Delete Post
Actor	Seller
Description	Allowing Delete post into the system.
Precondition	Seller should login into the system
Trigger	Click the “Delete” Button.
Flow Of Events	Click Delete button
Post Condition	No post condition.

Use Case No	1.7
Use Case Name	Search Property
Actor	Buyer
Description	Allowing Buyer to search post into the system.
Precondition	No precondition.
Trigger	Click the “search button” Button.
Flow Of Events	Type on the search input field
Post Condition	No post condition.

CHAPTER 5

Database Design

Database design is the main part of this project, because it is a dynamic web app all to the content of this project like logo, hero text, slider, copy right text, social link everything can be change form admin panel. And all of the data stored in the database. Also all of the information of a user (Seller, Buyer) stored in the database, so I think database design is the main part. A better design of database make a web app efficient to develop also give best security. In this chapter I will show all of the database related topic like entity relationship, Schema, all the table etc.

5.1 MYSQL:

In this project I used MYSQL for database management; it is the most popular and easy structured query language (SQL).

DATABASE CONNECTION (PHP):

To connect database to our project we use `mysqli_connect` function in PHP file.

This function take four parameter host name, user name, password of database, database name.

```
mysqli_connect("host name","user name","password","database name");
```

Entity Relationship Diagram:

Entity relationship diagram is a technique that graphically represents the relation between two tables or entity.

The elements of an ERD are:

- Entities
- Relationship
- Attribute

Schema Diagram: Schema Diagram is a visual representation of full database and also represents the relation between two table lines one to one, one to many, many to many, many to one.

The elements of an ERD are:

- Table name
- Attribute

Tables list of database: In this project I used xampp server to run PHP and MySQL, so here is the all table list of xampp localhost server.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐ 1	id 	int(11)			No	None		AUTO_INCREMENT	 Change  Drop  More
☐ 2	firstname	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 3	lastname	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 4	email	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 5	phone	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 6	city	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 7	type	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 8	area	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 9	password	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 10	date	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐ 11	time	text	latin1_swedish_ci		No	None			 Change  Drop  More

Figure 5.1: Customer table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1 id 	int(11)			No	None		AUTO_INCREMENT	 Change  Drop  More
☐	2 item_name	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	3 item_details	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	4 item_price	decimal(10,0)			No	None			 Change  Drop  More
☐	5 c1	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	6 image1	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	7 image2	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	8 image3	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	9 url	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	10 date	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	11 time	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	12 main_category	text	latin1_swedish_ci		No	None			 Change  Drop  More
☐	13 city	varchar(30)	latin1_swedish_ci		No	None			 Change  Drop  More
☐	14 area	varchar(1000)	latin1_swedish_ci		No	None			 Change  Drop  More

Figure 5.2: Post table

CHAPTER 6

Overview and Verification

In this chapter I will show my projects whole overview of front-end design. So this chapter contain some screenshot of our project.

HOME PAGE:

In this page is open for all users (register or not register). User can see some to Seller of the website and also some recent Ads post but can't see the details of the Seller or Buyer.

User found a contact form to contact with admin. And see the total Ads, Sellers, of the project

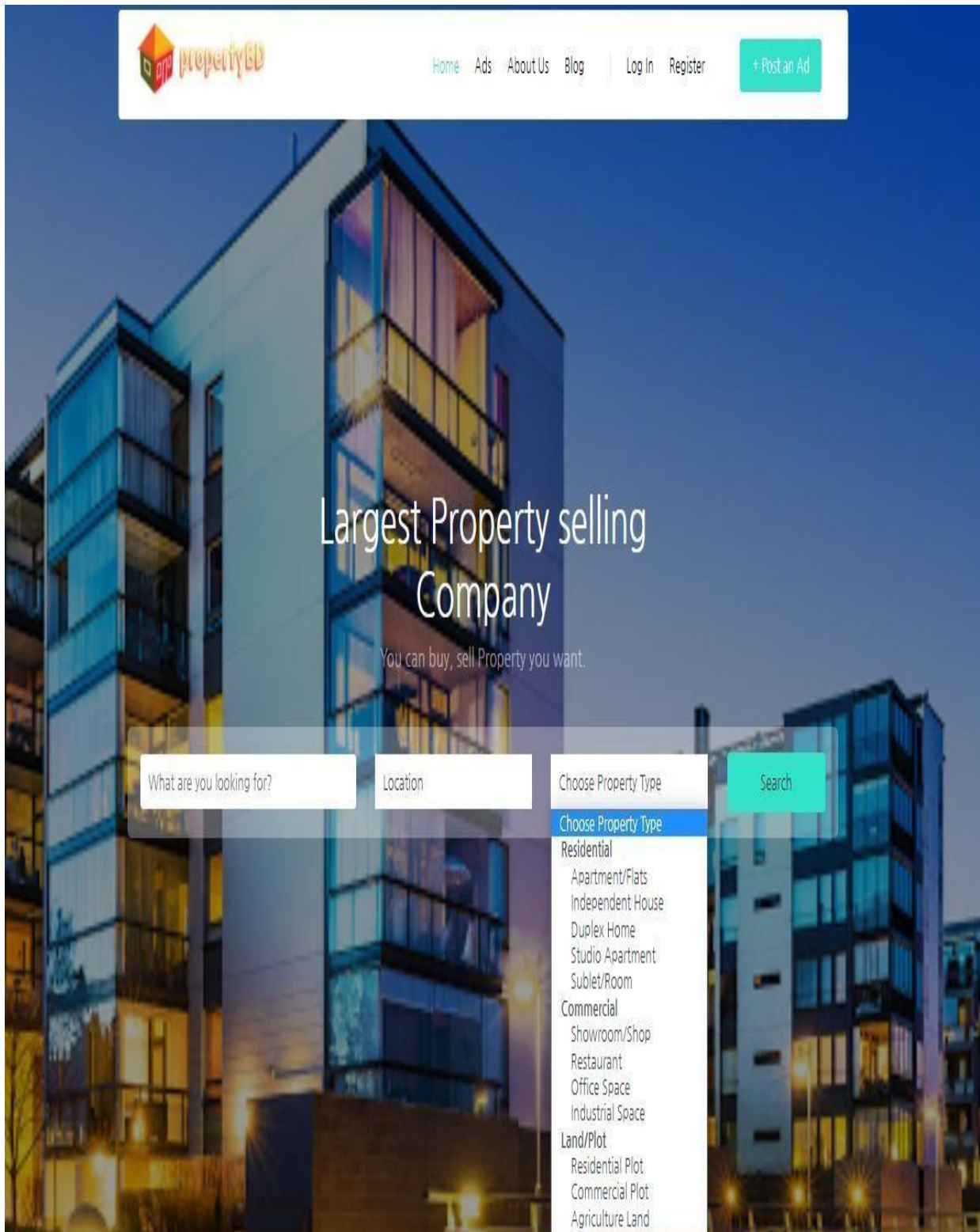
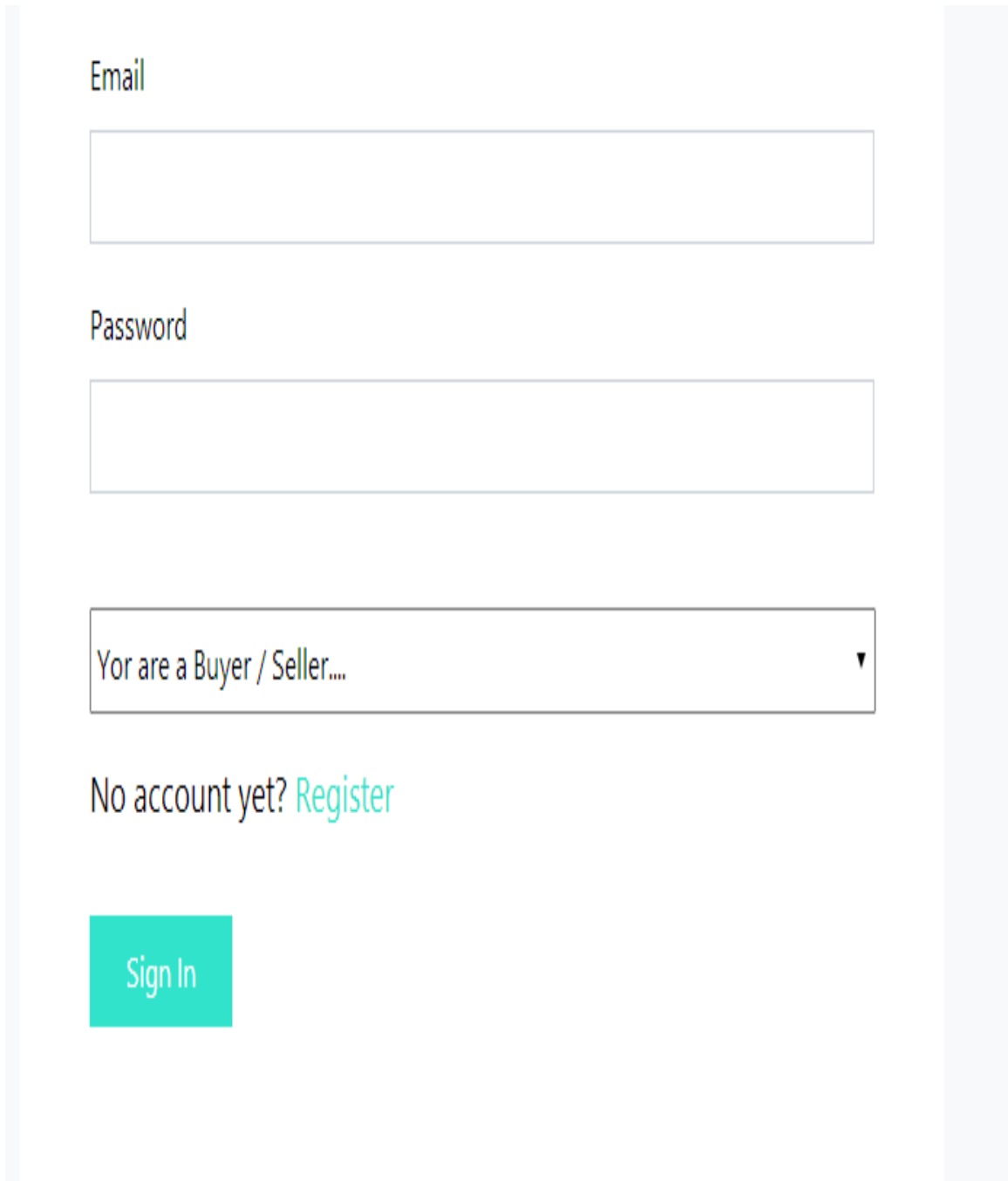


Figure 6.1: Home page

Login form:

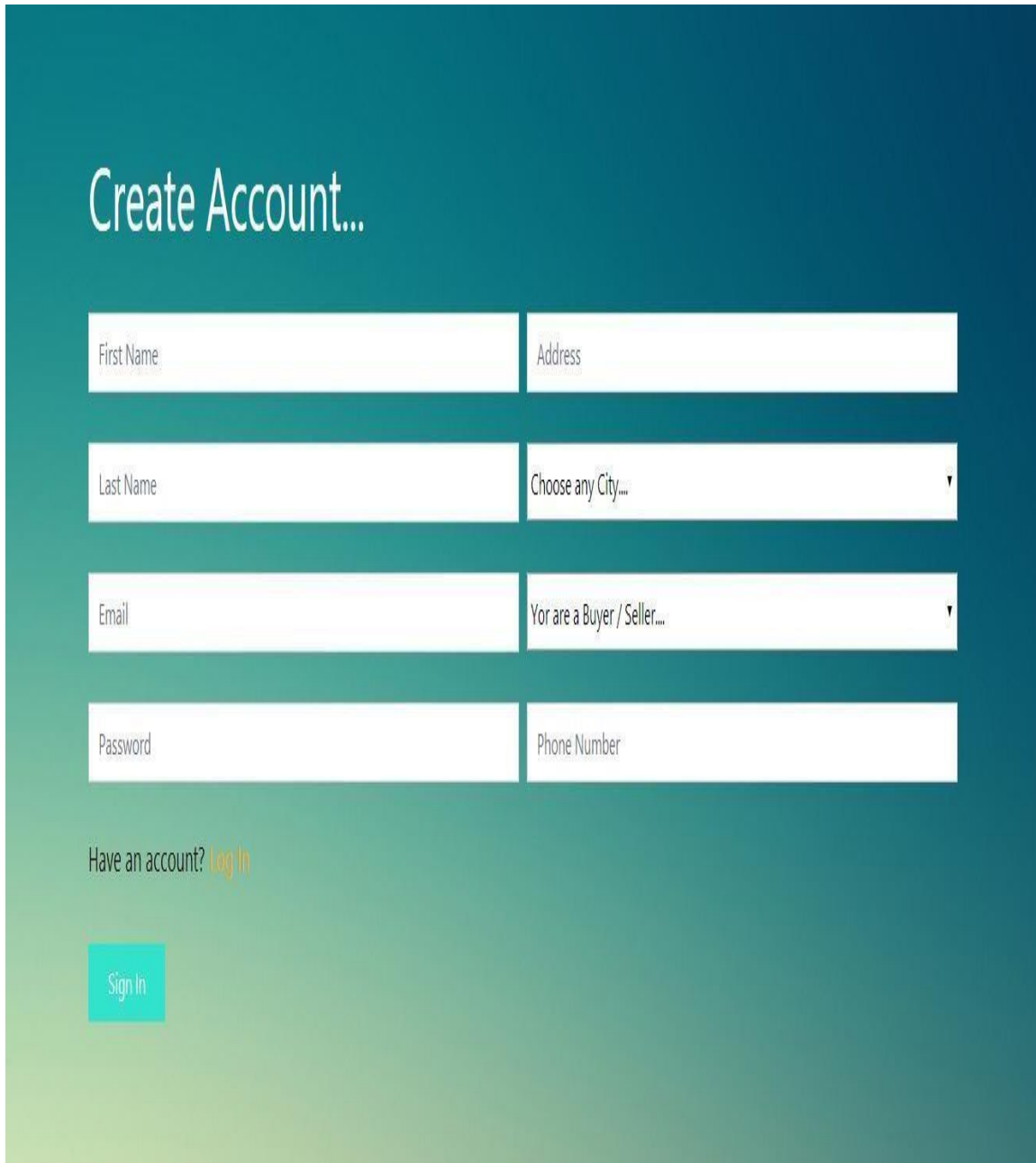
Using this form user can login into the website



The login form is presented within a light gray rectangular frame. It contains the following elements from top to bottom: an 'Email' label followed by a text input field; a 'Password' label followed by a text input field; a dropdown menu with the text 'You are a Buyer / Seller....' and a downward arrow; the text 'No account yet?' followed by a teal-colored link labeled 'Register'; and a teal-colored button with the white text 'Sign In'.

Figure 6.2: Login form

Registration Form: Using this form user can create an account. If a user is a Seller then he/she need to select an option „I am“ Seller. If a user is Buyer then he/she need to select option I am Buyer. Also every account needs unique email address.



The image shows a 'Create Account...' registration form on a teal background. The form consists of eight input fields arranged in four rows. The first row has 'First Name' and 'Address'. The second row has 'Last Name' and a dropdown menu labeled 'Choose any City...'. The third row has 'Email' and a dropdown menu labeled 'You are a Buyer / Seller...'. The fourth row has 'Password' and 'Phone Number'. Below the form, there is a link 'Have an account? [Log In](#)' and a red 'Sign In' button.

First Name	Address
Last Name	Choose any City...
Email	You are a Buyer / Seller...
Password	Phone Number

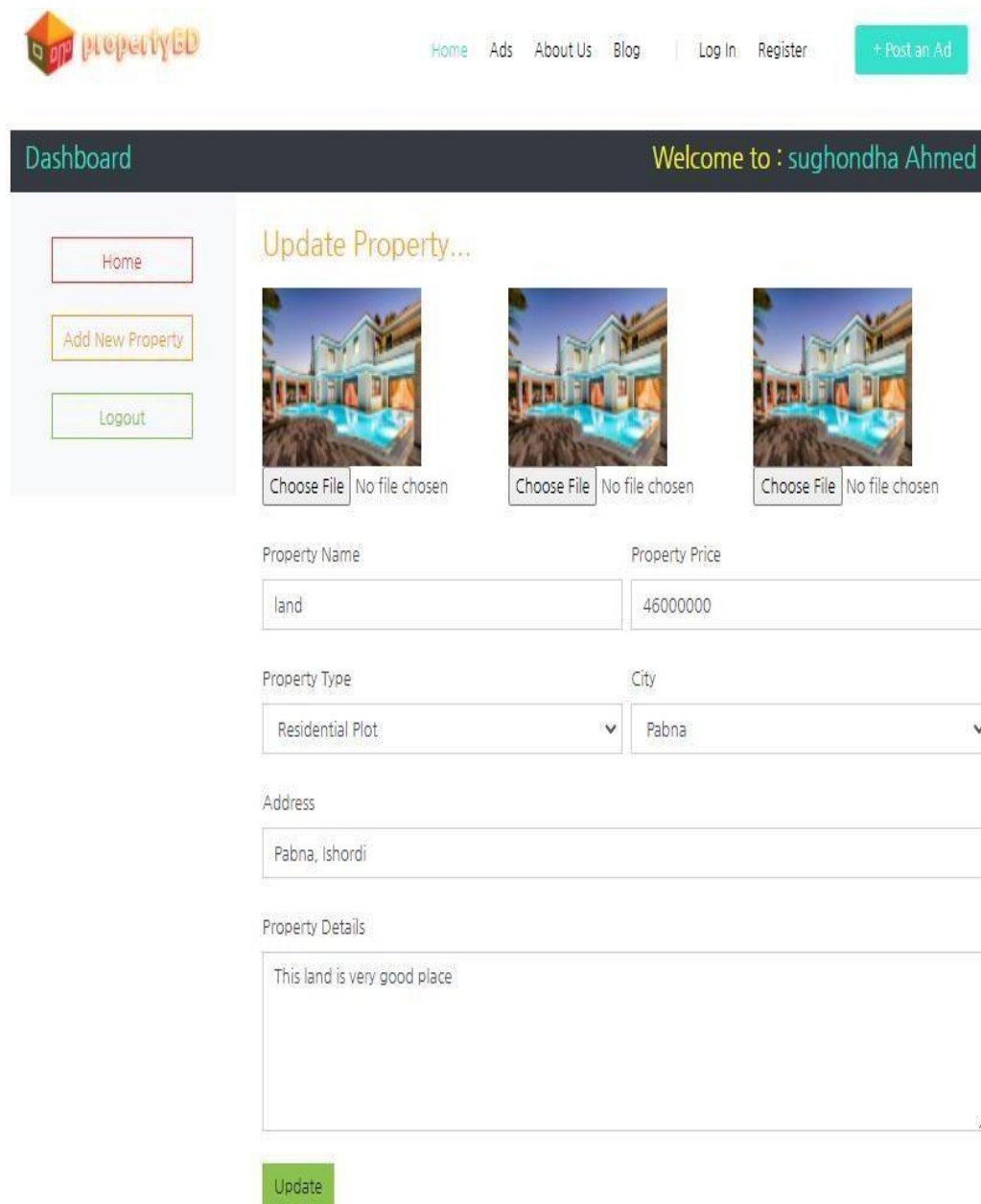
Have an account? [Log In](#)

[Sign In](#)

Figure 6.3: Registration Form

Profile Update Form:

Using this form user can update his/her profile by clicking update button.



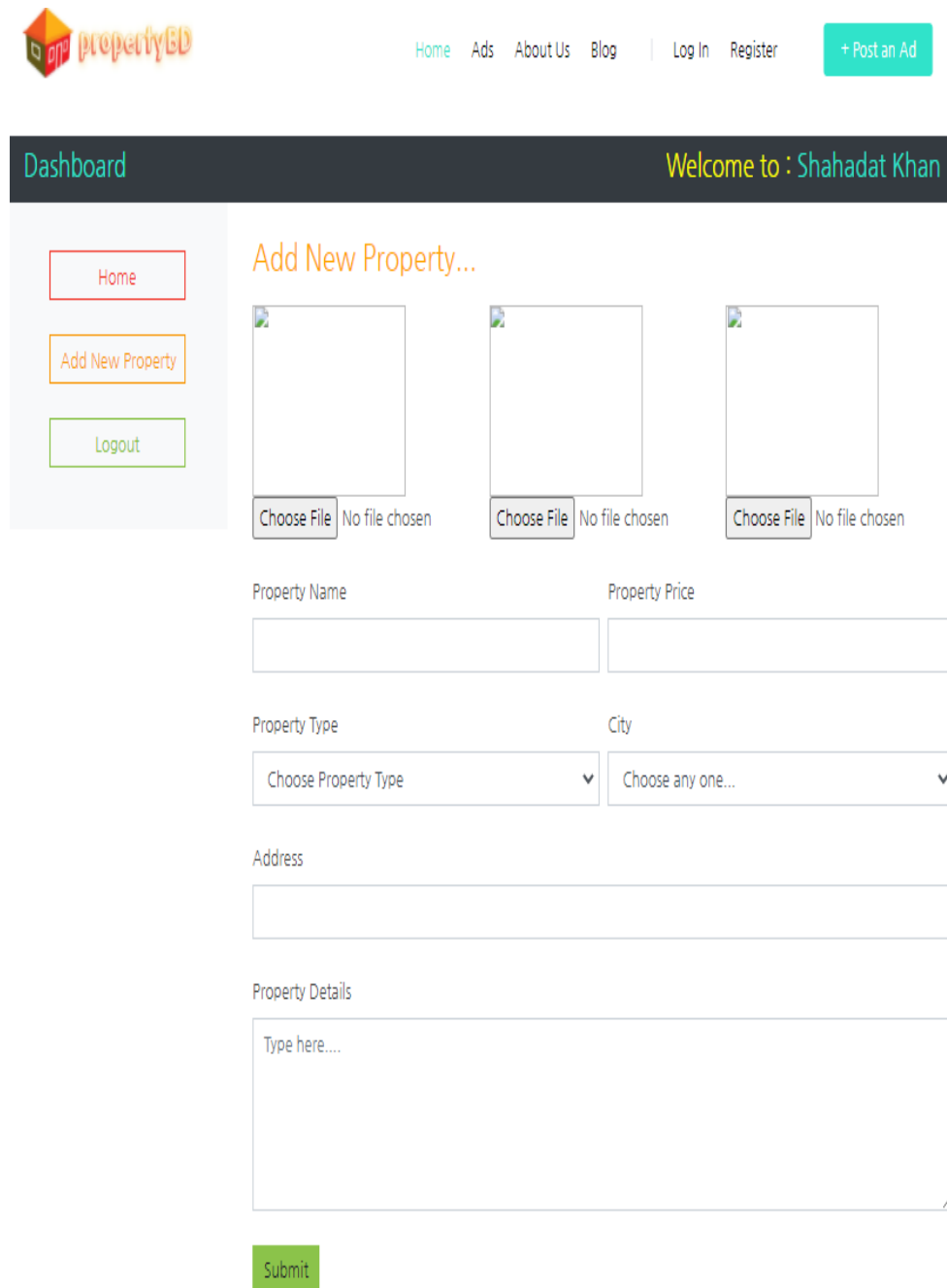
The screenshot shows the 'Update Property' form on the Property6D website. The form is titled 'Update Property...' and is located in the main content area. On the left side of the form, there is a sidebar with navigation links: 'Home', 'Add New Property', and 'Logout'. The form itself contains several input fields and a text area:

- Image Uploads:** Three image upload slots are at the top of the form. Each slot has a placeholder image of a house and a 'Choose File' button. Below each button, it says 'No file chosen'.
- Property Name:** A text input field containing the word 'land'.
- Property Price:** A text input field containing the number '46000000'.
- Property Type:** A dropdown menu with 'Residential Plot' selected.
- City:** A dropdown menu with 'Pabna' selected.
- Address:** A text input field containing 'Pabna, Ishordi'.
- Property Details:** A large text area containing the text 'This land is very good place'.
- Update Button:** A green button labeled 'Update' is located at the bottom of the form.

Figure 6.4: Profile Update From

Post create form:

Using this form user (Seller) can create Post.



The screenshot shows the 'Add New Property' form on the propertyBD website. The form is titled 'Add New Property...' and is located on the right side of the dashboard. The dashboard header includes the propertyBD logo, navigation links (Home, Ads, About Us, Blog, Log In, Register), and a '+ Post an Ad' button. The dashboard sidebar contains links for Home, Add New Property, and Logout. The form itself has a dark header with 'Dashboard' and 'Welcome to : Shahadat Khan'. The form fields include three image upload slots, each with a 'Choose File' button and 'No file chosen' text. Below the image slots are input fields for 'Property Name' and 'Property Price'. There are also dropdown menus for 'Property Type' (labeled 'Choose Property Type') and 'City' (labeled 'Choose any one...'). An 'Address' input field is located below the dropdowns. A large text area for 'Property Details' is at the bottom, with a placeholder 'Type here...'. A green 'Submit' button is at the bottom right of the form.

Figure 6.5: Post create From

ALL ADS POST:

In this page user can see all Adss of the website also can search for ads.

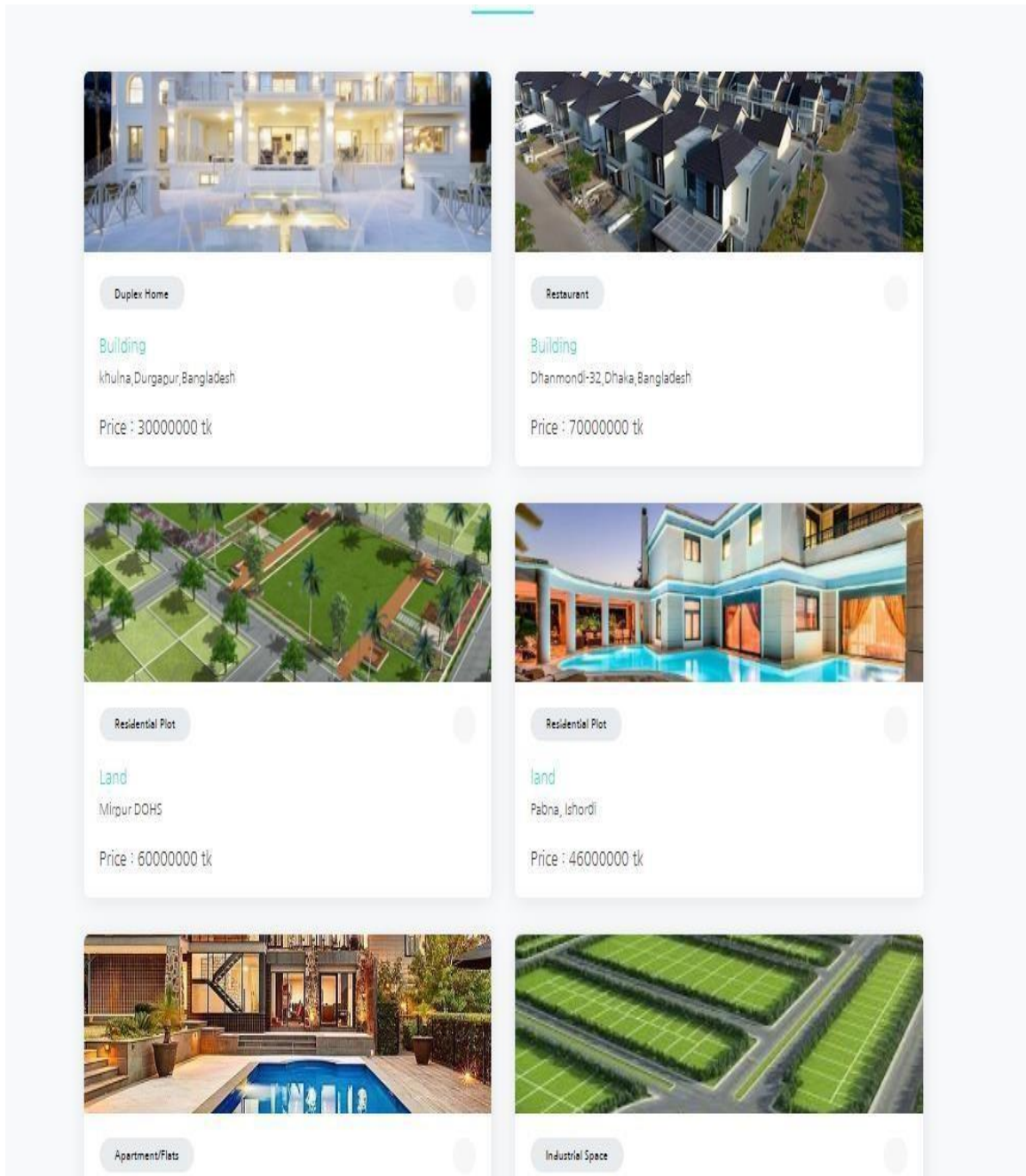


Figure 6.6: All Ads Post

Seller information: Ads Post By shahadul ali ,06:03:07 am ,02/03/20,
Mohammadpur, Krishi Market, Rangpur

Information of Seller

Name	shahadul ali
Email	shahadul@gmail.com
Phone No,	01728844733
Owner Type	seller
Address	Dhaka, BD
Sign up Date	12:51:17 pm, 02/01/20

Figure 6.7: Seller Information

Property summary:

Property Summary

Property ID	93
Property Name	Land for Sale
Property Price	150000 tk
Property Type	Residential Plot
Post Time & Date	06:03:07 am, 02/03/20
Address	Mohammadpur, Krishi Market
City	Rangpur

Figure 6.8: property Summary

Blog page:

In this page blog page will see all ads post make a post active or deactivate by clicking action button

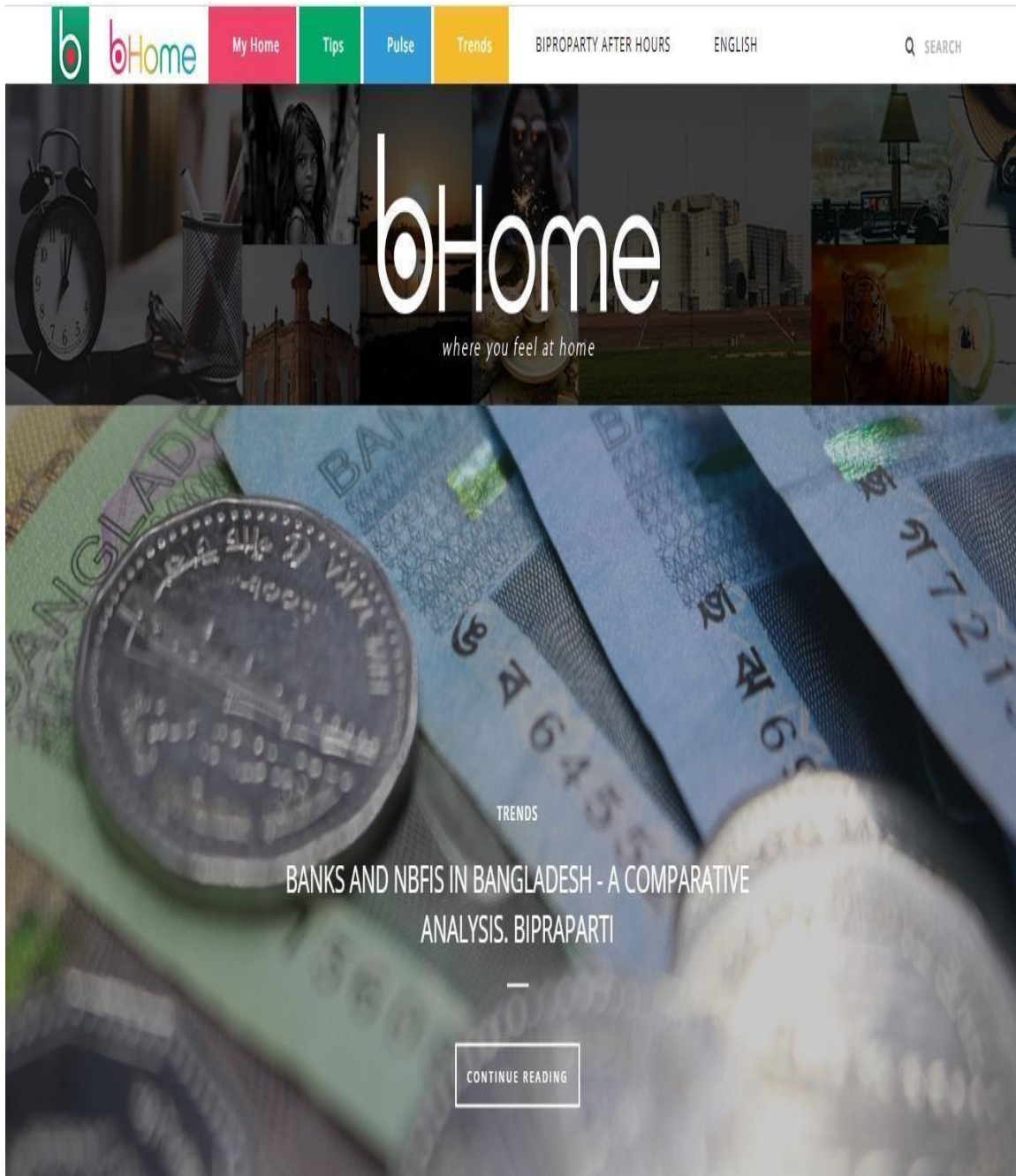


Figure 6.9: Blog page

Test case Table:

Test case	Input	Expected output	Actual output	Result	Test on
1.Font-end design	Tested browsers - Firefox Google Chrome Opera Safari	Display all the page successfully	Display all the page successfully	Passed	1-20-19
2.Registration form	Input name, email, password, User type	Registration successfully	Registration successfully	Passed	1-20-19
3. login	Input email and password	Login successfully	Login successfully	Passed	1-20-19
4.Create Post	Input all Post information in the Post create form	Created successfully	Created successfully	Passed	1-20-19
5.Create Ads post	Input all Ads information in the Ads create form	Created successfully	Created successfully	Passed	1-20-19
6.Seller Search	Input in the search bar	Provide valid output	Provide valid output	Passed	1-20-19
7.Ads Search	Input in the search bar	Provide valid output	Provide valid output	Passed	1-20-19

8.Post edit	Click on edit button	Show all info to edit form	Show all info edit form	Passed	1-20-19
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Test case	Input	Expected output	Actual output	Result	Test on
9.Ads edit	Click on edit button	Show all info to edit form	Show all info edit form	Passed	1-20-19
10. Post update	Click to the update button	Post update success	Post update success	Passed	1-20-19
11. Ads update	Click to the update button	Ads update success	Ads update success	Passed	1-20-19
12.Post delete	Click to the delete button	Post delete success	Post delete success	Passed	1-20-19
13.Ads delete	Click to the delete button	Ads delete success	Ads delete success	Passed	1-20-19
14. logout	Click logout button	Logout success show index page	Logout success show index page	Passed	1-20-19

6.11. About us Dashboard:

In this page admin will see total Seller, Ads post etc. Admin also see the recent Ads post and Seller.



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Figure 6.10: admin dashboard

CHAPTER 7

CONCLUSION

The project (web application) has been successfully implemented. After uploading the application in live server its all features and functionalities works fine. This application is responsive and user friendly also efficient enough to use.

Limitations

My application has some limitation. I will overcome them in future. Some limitations are:

- it is only web based application.
- Some features need to be include such as rating and review system of Seller and Buyer.
- Small data storage.

Future Scopes

- My mission is to make this project for all platform like windows, IOS and android.
- Use more large data storage
- I will add more additional features to make it more dynamic and user friendly.

