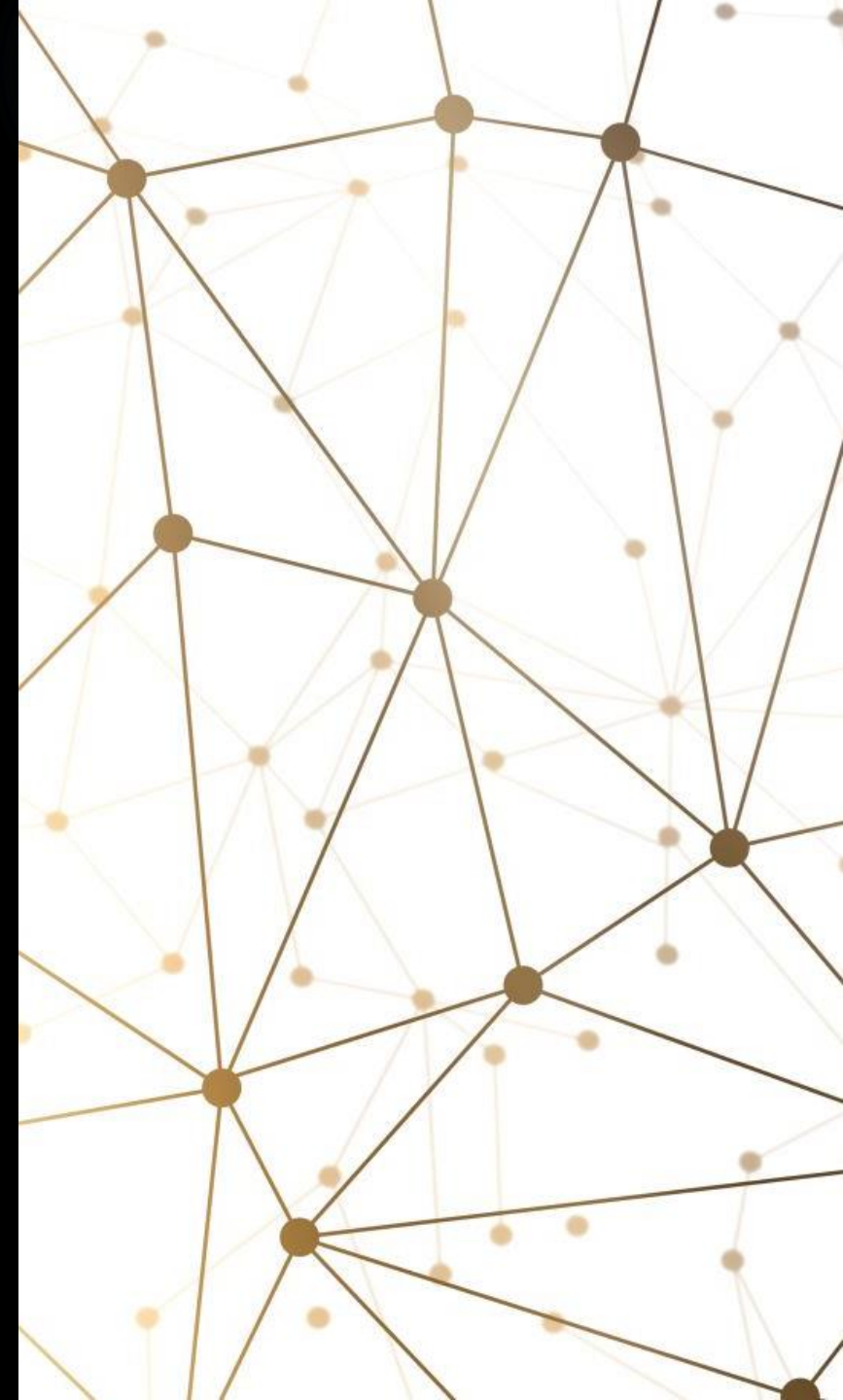


BARTER SYSTEM WEBSITE

BY: LAKSHAY CHANDRA

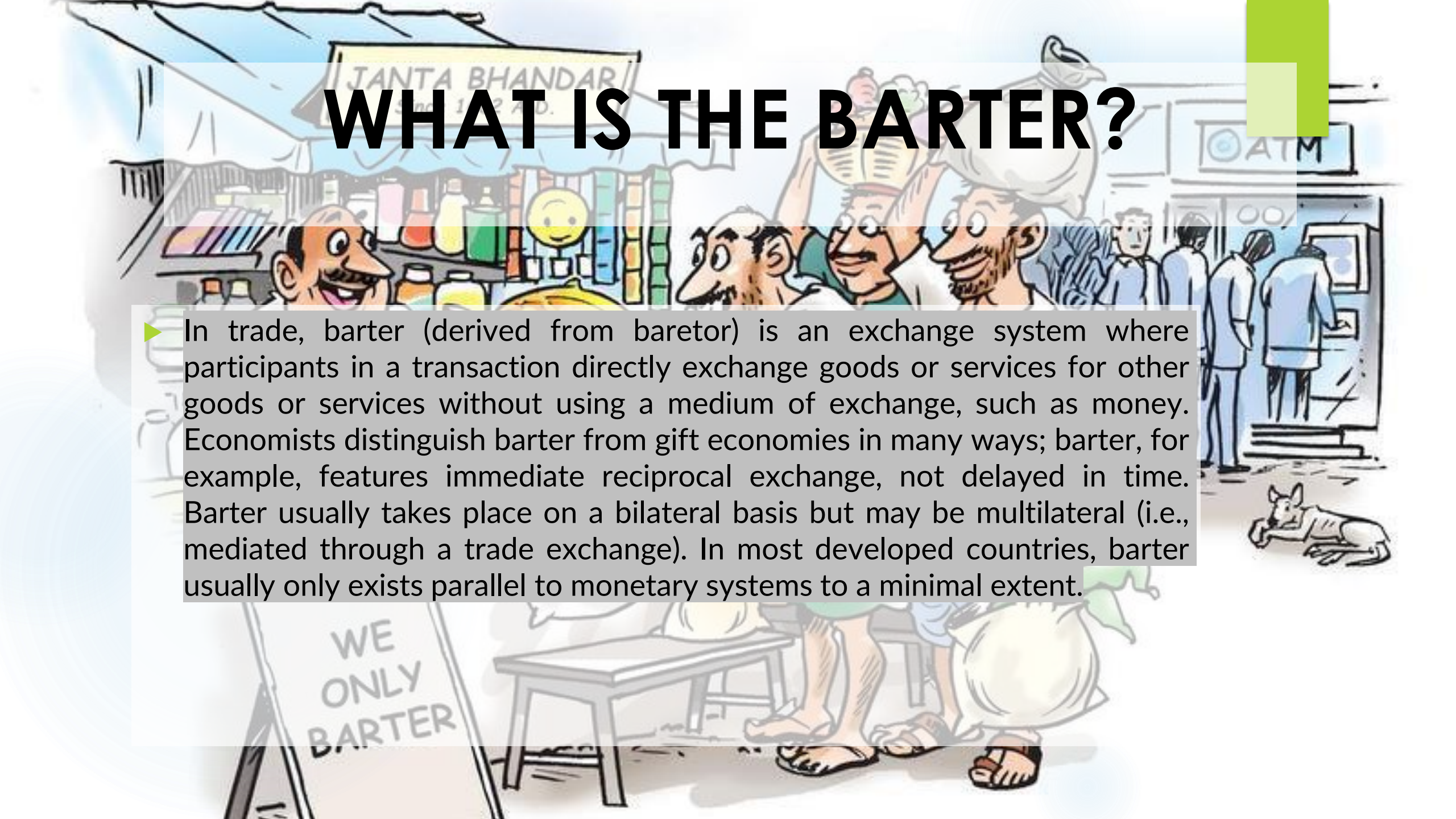


INTRODUCTION

- ▶ Nearly one in every six urban Indian residents lives in a slum which means that roughly 17 % of the Indian population resides in urban slums.
- ▶ One observes very few departmental stores in urban slums.
- ▶ They have to travel long distances to buy essential goods for their survival.
- ▶ Since most of the residents are daily wage laborers, this commute results in a deduction of their working hours, leading to a conclusion in pay and consequently monthly income.

WHAT IS THE BARTER?

- ▶ In trade, barter (derived from baretor) is an exchange system where participants in a transaction directly exchange goods or services for other goods or services without using a medium of exchange, such as money. Economists distinguish barter from gift economies in many ways; barter, for example, features immediate reciprocal exchange, not delayed in time. Barter usually takes place on a bilateral basis but may be multilateral (i.e., mediated through a trade exchange). In most developed countries, barter usually only exists parallel to monetary systems to a minimal extent.



What is Web Development?

- ▶ Web Development refers to the task related to web applications and webpages.
- ▶ The Languages used in building a website are :
 - ▶ HTML (used to define the page's overall structure and provide some simple header information)
 - ▶ CSS (to add more styles to the webpage)
 - ▶ JavaScript (used for adding dynamic behavior to the webpage and for validation purposes)

HTML

- ▶ HTML stands for : Hypertext Markup Language
- ▶ It is a standard markup language used for creating Web pages.
- ▶ It describes the main Structure of the webpage
- ▶ HTML constitutes of elements called **tags**.

Structure of HTML

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Page title </title>
```

```
</head>
```

```
<body>
```

```
<h1> This is a heading </h1>
```

```
<p>This is a paragraph </p>
```

```
</html>
```

The extension for saving an html file is .html or .htm

CSS

- ▶ Used for presentation of Webpage including colors, layout, and fonts.
- ▶ It is a styling Language
- ▶ It is independent of HTML and can be used with any XML-based markup language.

▶ SYNTAX

```
Selector {  
  Property1: value;  
  Property2: value;  
}
```


Example

```
h1 {  
  color : blue;  
}
```

Selectors : div, span, footer, strong, class etc.

Properties: color, padding, margin, border, etc.

- ▶ CSS can be used inline, internally or externally in the program
- ▶ Inline - by using the style attribute inside HTML elements.
- ▶ Internal - by using a <style> element in the <head> section.
- ▶ External - by using a <link> element to link to an external CSS file.

JavaScript

- ▶ Every browser has a JS engine.
- ▶ It can be written in the browser console.
- ▶ JavaScript has no compilation step. Instead, an interpreter in the browser reads over the JavaScript code, interprets each line, and runs it.
- ▶ JavaScript is used to add motion to the otherwise static webpage.
- ▶ A simple program to print Hello world in JavaScript:
`console.log("Hello World!");`
- ▶ In our project , we have incorporated JavaScript to validate the Sign-up and Login forms for the required fields, so that the user can identify the errors while providing input.

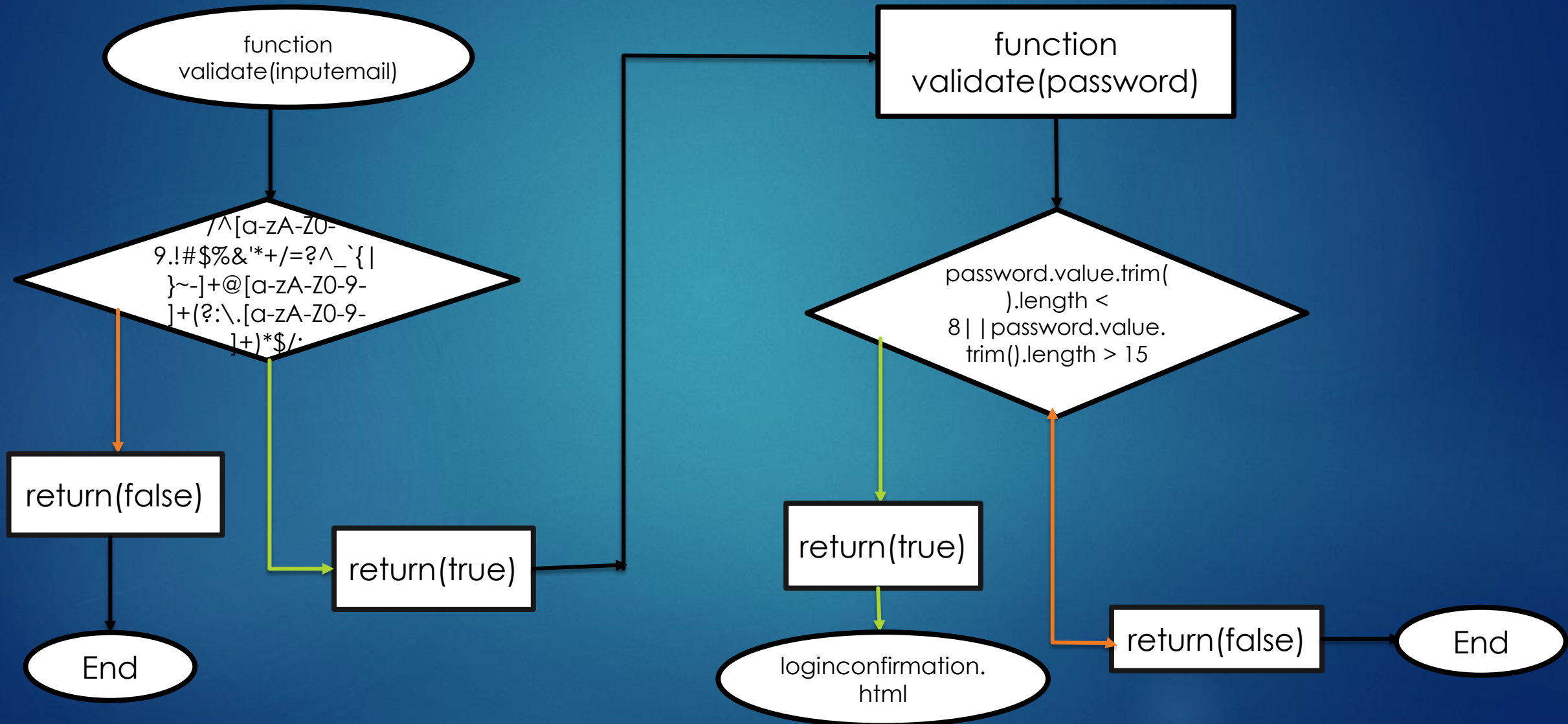
Problem Statement

- Nearly one in every six urban Indian residents lives in a slum which means that roughly 17 % of the Indian population resides in urban slums. One observes very few departmental stores in urban slums.
- While these stores provide access to many daily required products, more often than not, one observes that the prices are high, the items sold are expired, and the stores do not open regularly. As a result, urban slum dwellers do not have access to many of the products they require. They have to travel long distances to buy essential goods for their survival. Since most of the residents are daily wage laborers, this commute results in a deduction of their working hours, leading to a conclusion in pay and consequently monthly income.
- To solve this problem, we have designed an innovative barter website for the users, where they can exchange their goods for the goods they need. This is especially useful during the times of Covid-19 and the lockdown period, where most of the markets are closed or heavily regulated.

Methodology

- ▶ HTML is used to design the basic structure the webpage
- ▶ The Homepage of the website gives information about the abstract about the project.
- ▶ There are links to Signup and Login Page
- ▶ CSS has been used to style the webpages
- ▶ A predefined CSS template has been used to Design the homepage.
- ▶ JavaScript has been used to carry out validation process in the Sign-up Page and the Login Page. It checks whether the user has provided proper input into the required fields like: First Name, e-mail address, region, Password etc.
- ▶ Password validation has also been incorporated using JavaScript
- ▶ Modal animation has also been incorporated using JavaScript.
- ▶ However the Backend has not been developed, so the information does not get stored into the server.

Flow Chart for Login Form Validation



Limitations

- ▶ The backend development has not been incorporated
- ▶ The information of the user is not stored into the server, hence the webpages are static to a large extent.
- ▶ Since, the system is a barter one, it is limited to conflicts regarding the prices of the items. Proper indirect monetization of the articles being exchanged needs to be done to avoid such conflicts.

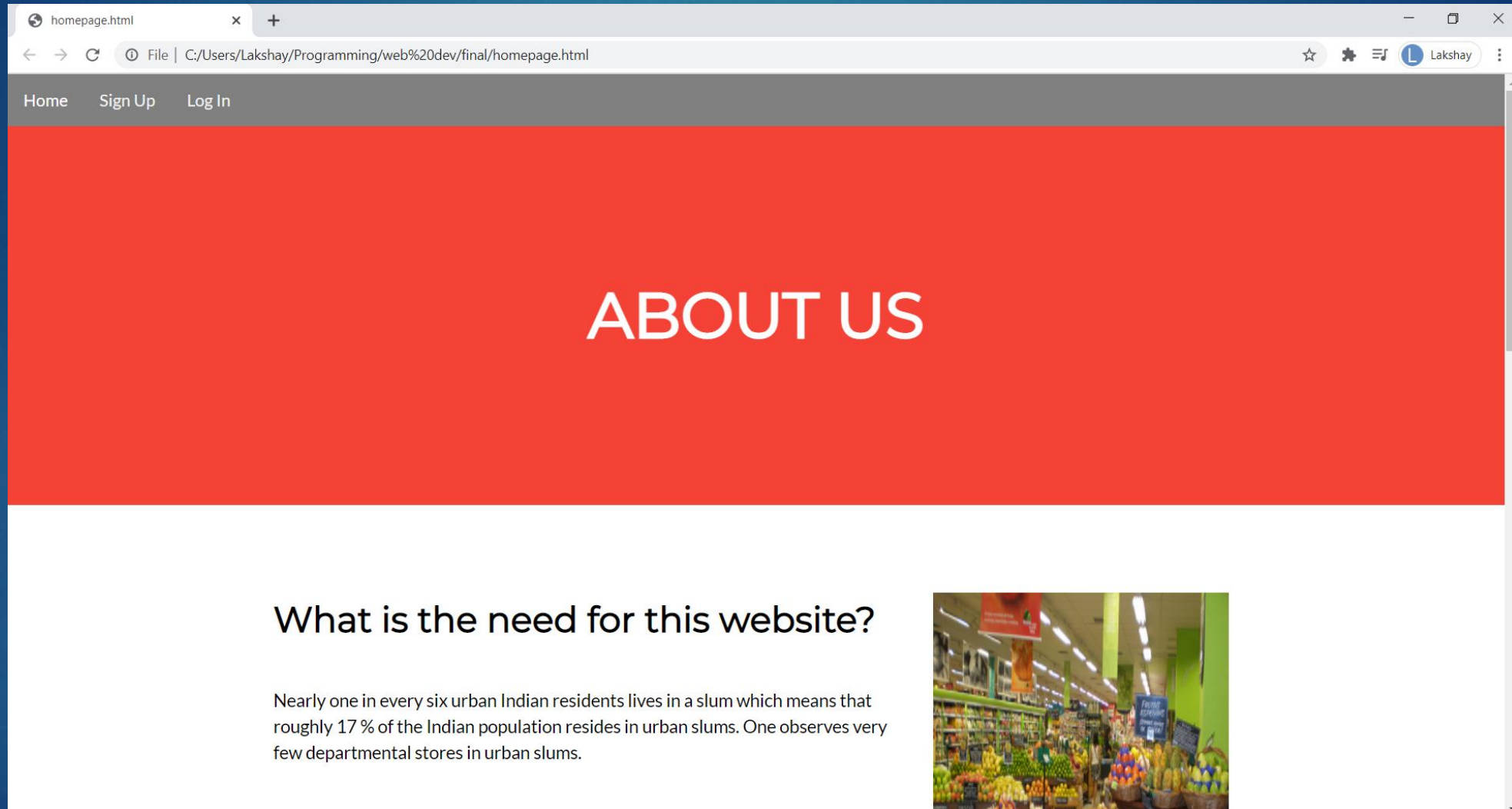
Result and conclusion

- ▶ The front end development has been complete, CSS has been used to style the webpages and the webpages run successfully. JavaScript has been incorporated to provide animations and to carry out validation of the forms.
- ▶ However, the backend development has not been incorporated, so the information is not stored on a database.

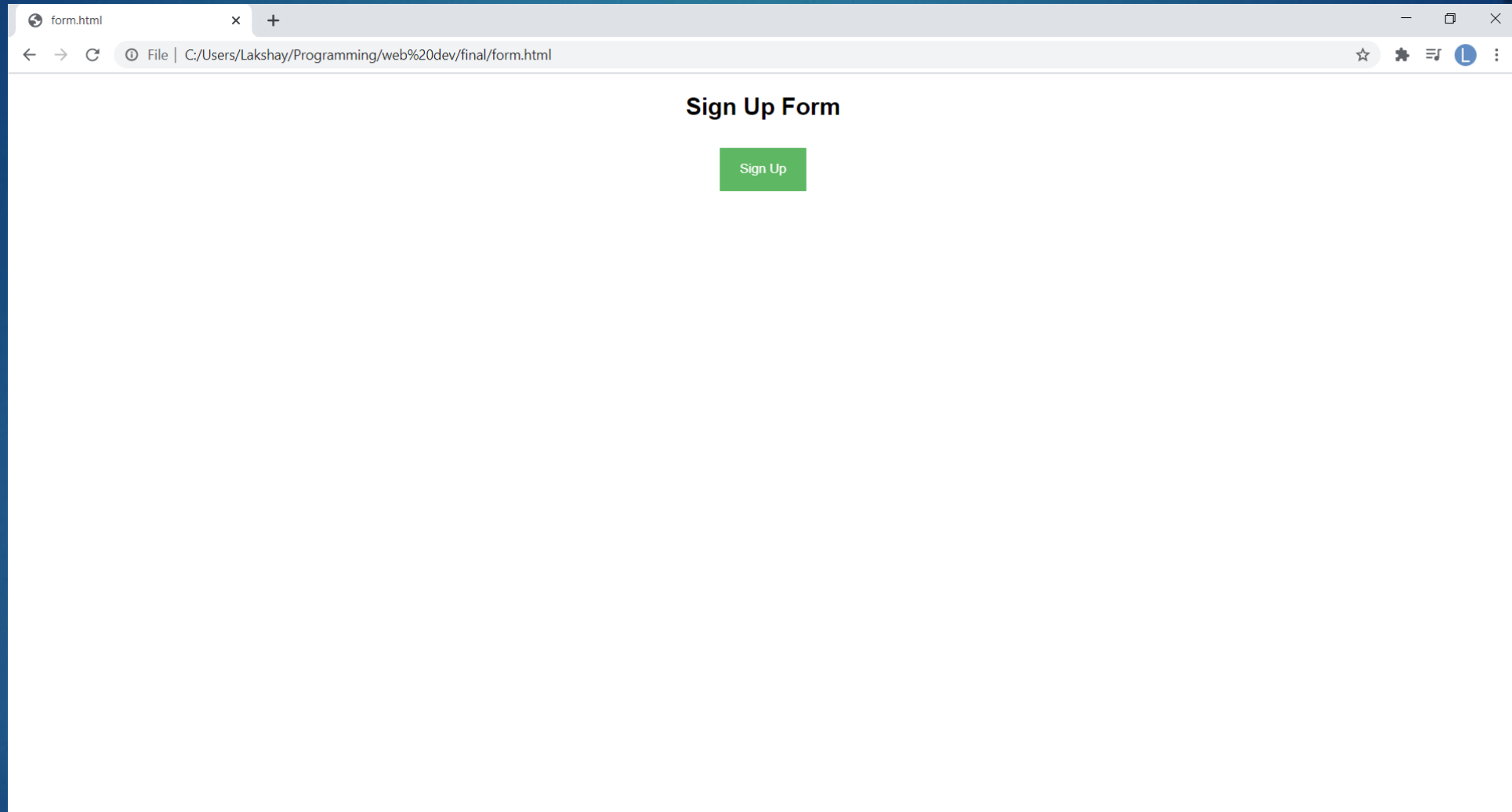


Snapshots of webpages

Homepage



Sign Up Form



signup.html

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Lakshay

⋮

C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/signup.html

✕

Sign Up (* Required fields)

First Name*:

Lakshay

Last Name :

Chandra

Gender:

☐ Male

☐ Female

☐ Others

Email* :

abc@gmail.com

Region* :

Phone Number* :

0000000000

Type of Item You Want to Give:

Item

Type of Item You Want to Get:

Item

Password* :

Password

Confirm password* :

Confirm password

Submit

By creating an account you agree to our [Terms & conditions](#).

First Name Validation

signup.html

File | C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/signup.html

This page says
Please provide First name

OK

First Name*:
Lakshay

Last Name :
Chandra

Gender:
☐ Male
☐ Female
☐ Others

Email* :
abc@gmail.com

Region* :
▼

Phone Number* :
0000000000

Type of Item You Want to Give: Item ▼

Type of Item You Want to Get: Item ▼

Password* :
Password

Confirm password* :
Confirm password

Submit

By creating an account you agree to our [Terms & conditions](#).

Password Validation

signup.html

File | C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/signup.html

This page says
Please provide a password which has 8-15 characters

OK

First Name*:
ABC

Last Name :
Chandra

Gender:
☒ Male
☐ Female
☐ Others

Email* :
abc@gmail.com

Region* :
Delhi

Phone Number* :
0000000000

Type of Item You Want to Give: Item

Type of Item You Want to Get: Item

Password* :
Password

Confirm password* :
Confirm password

Submit

By creating an account you agree to our [Terms & conditions](#).

signup.html

File | C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/signup.html

This page says
Please provide the password again
OK

First Name*:
ABC

Last Name :
Chandra

Gender:
☒ Male
☐ Female
☐ Others

Email* :
abx@gmail.com

Region* :
Delhi

Phone Number* :
0000000000

Type of Item You Want to Give: Item

Type of Item You Want to Get: Item

Password* :

Confirm password* :
Confirm password

Submit

By creating an account you agree to our [Terms & conditions](#).

signup.html

File | C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/signup.html

This page says
Passwords do not match
OK

First Name*:

ABC

Last Name :

Chandra

Gender:

☒ Male

☐ Female

☐ Others

Email* :

abx@gmail.com

Region* :

Delhi

Phone Number* :

0000000000

Type of Item You Want to Give:

Item

Type of Item You Want to Get:

Item

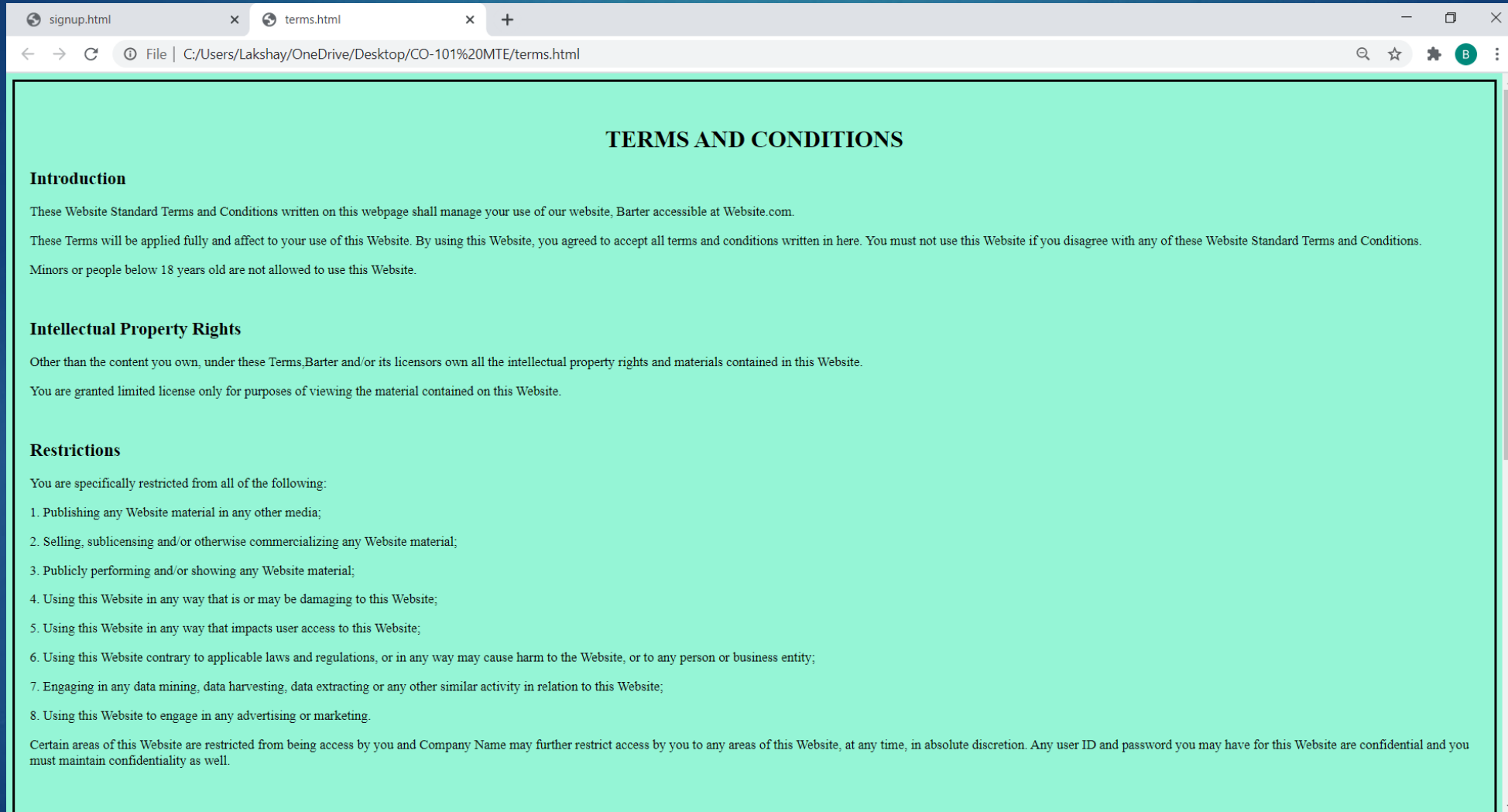
Password* :

Confirm password* :

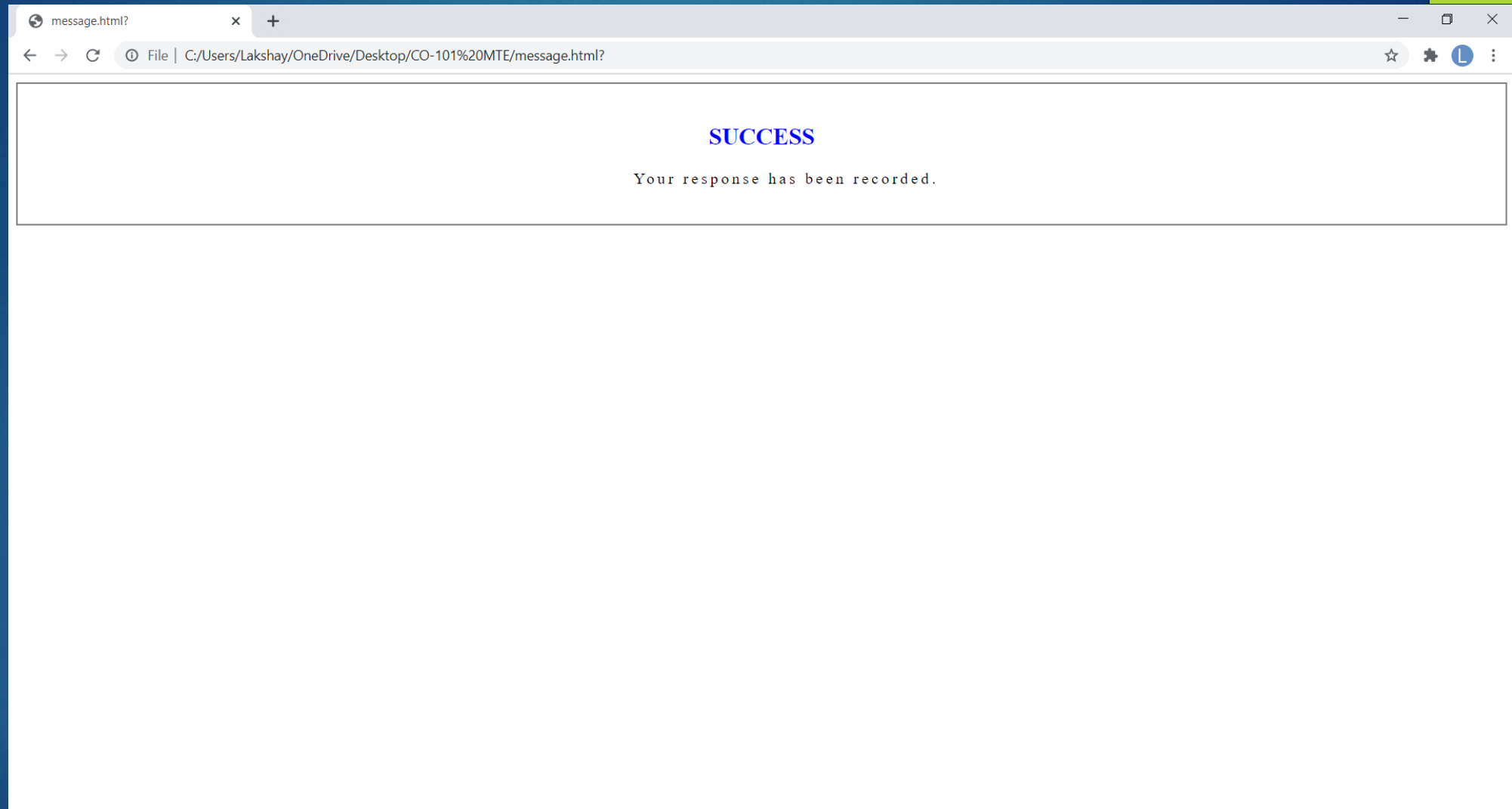
Submit

By creating an account you agree to our [Terms & conditions](#).

Terms and Conditions



Successful Signup



Login Page

Login.html

File | C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/Login.html

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Login

Email :

abx@gmail.com

Password* :

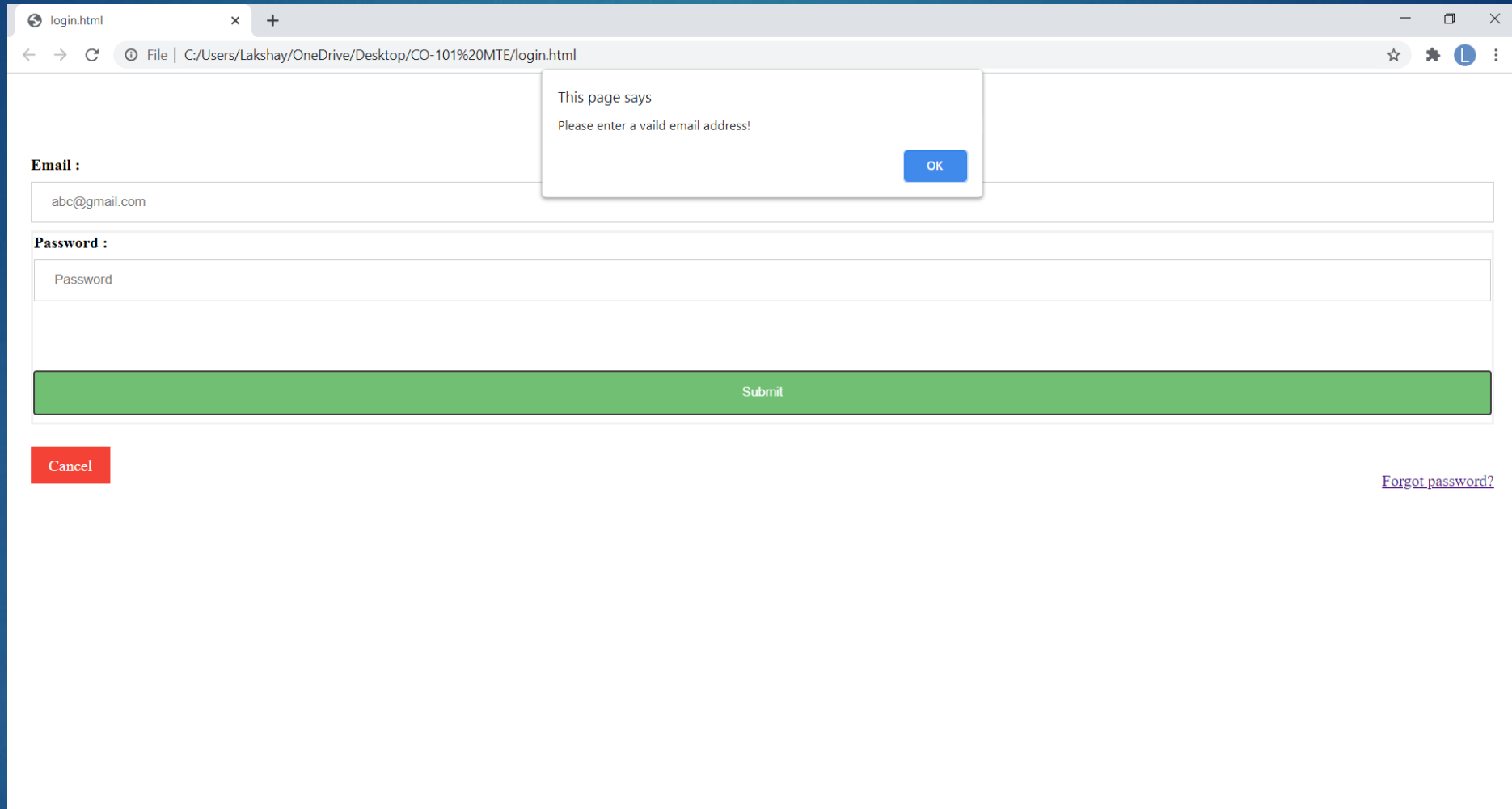
Password

Submit

Cancel

Forgot password?

Email Validation



The screenshot shows a web browser window with the address bar displaying "login.html" and the file path "C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/login.html". The browser window contains a login form with the following elements:

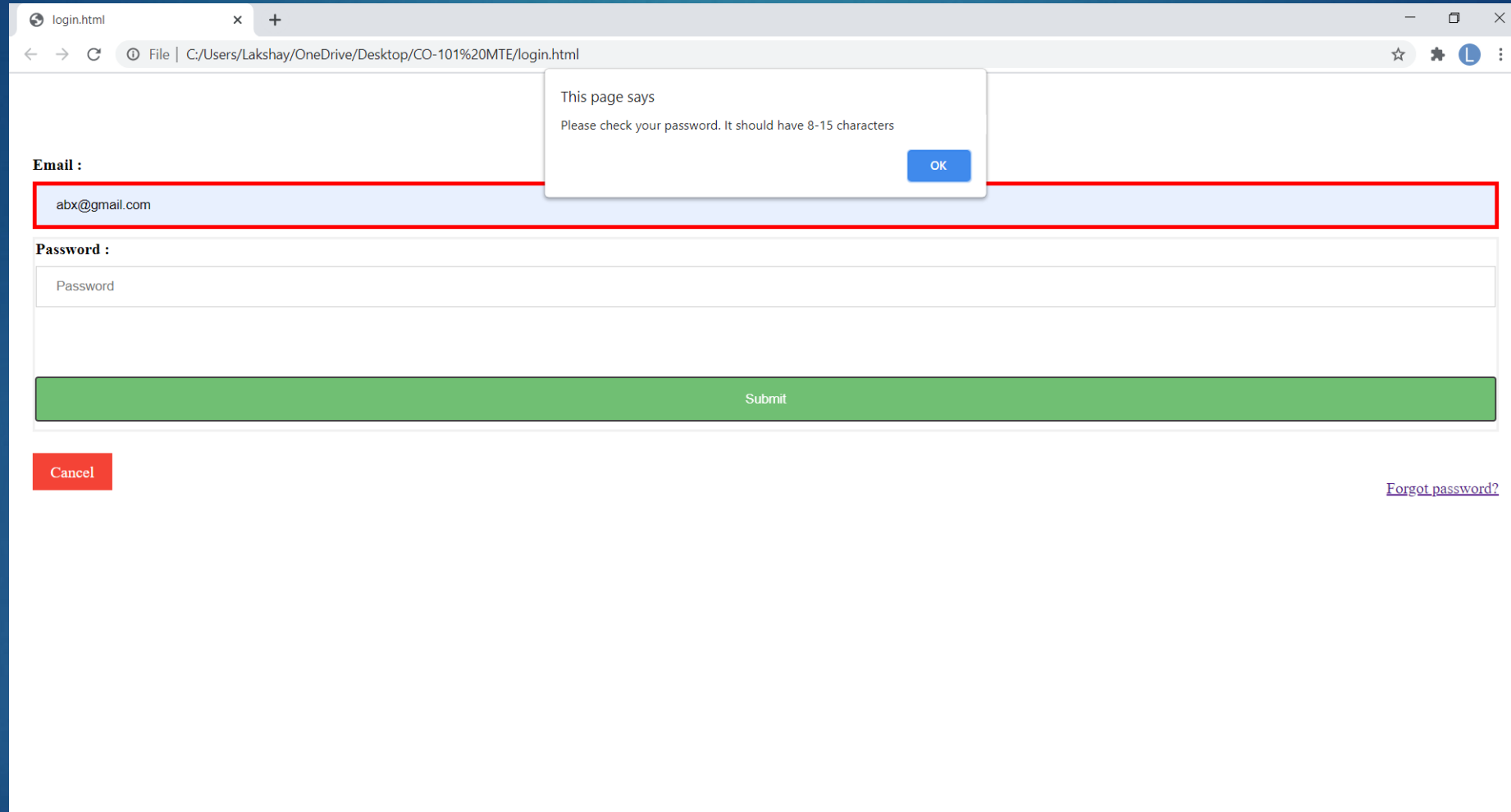
- Email :** A text input field containing "abc@gmail.com".
- Password :** A text input field containing "Password".
- Submit:** A green button.
- Cancel:** A red button.
- Forgot password?:** A link.

An error message dialog box is displayed over the form, stating:

This page says
Please enter a valid email address!

The dialog box has an "OK" button.

Password validation



The screenshot shows a web browser window with the address bar displaying "login.html" and the file path "C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/login.html". The browser's address bar also shows navigation icons (back, forward, refresh) and a search icon. The login form consists of an "Email :" label, a text input field containing "abx@gmail.com", a "Password :" label, a password input field, and a green "Submit" button. A red border highlights the email input field. A modal dialog box is displayed over the form, stating "This page says" and "Please check your password. It should have 8-15 characters", with an "OK" button. At the bottom left, there is a red "Cancel" button, and at the bottom right, there is a link labeled "Forgot password?".

login.html

File | C:/Users/Lakshay/OneDrive/Desktop/CO-101%20MTE/login.html

This page says
Please check your password. It should have 8-15 characters

OK

Email :

abx@gmail.com

Password :

Password

Submit

Cancel

[Forgot password?](#)

Forgot Password

