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Graduation Project:

Developing city vacant areas using GIS system

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Abstract

1) Geographical information systems (GIS) have gained widespread attention and use in many applications and solving Mems Planning and management are among these applications. Developed areas within governorates are easily and effectively can be planned and managed using GIS system. In this project student will get a proposed area to be developed within a governorate and represent it as spatial data in a GIS system that will be used in planning and management. Through the project we took the free space in October and we divided it into factories, companies and free spaces able to be hospitals, schools and compounds. We tried to make the choice easier for investors by showing them where the best place to build hospitals, schools and factories. We have done this by making analysis of the space then designing and implement on ArcGIS. The main activities of the project are: 1. Maintaining the basic operation of the system. Students will make a survey about the vacant spaces on the district area, gather a spatial data and use a proper tool to represent these data like ARC Map. 2. Requirements analysis: determining users' specific requirements. Students will analyze multi-user requirements from the system (governmental, investors, individuals, etc....). 3. Design: integrating all requirements and developing data and system specifications. Students will design system interfaces for different user according to required specifications and universal standard (HTML, Java script,-). 4. Design a geographical database for the system application. Students will use a proper tool for spatial data representation, processing, and analysis like Arc GIS 5. Test of a service and check that the whole application processes are functioning properly according to user's needs.

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Chapter 1

Introduction

1.1 What is GIS?

A geographic information system (GIS) is a system designed to capture, store, manipulate, analyze, manage, and present all types of geographical data. The key word to this technology is Geography – this means that some portion of the data is spatial. In other words, data that is in some way referenced to locations on the earth.

Coupled with this data is usually tabular data known as attribute data. Attribute data can be generally defined as additional information about each of the spatial features. An example of this would be schools. The actual location of the schools is the spatial data. Additional data such as the school name, level of education taught, student capacity would make up the attribute data.

It is the partnership of these two data types that enables GIS to be such an effective problem solving tool through spatial analysis.

GIS is more than just software. People and methods are combined with geospatial software and tools, to enable spatial analysis, manage large datasets, and display information in a map/graphical form.

1.2 scoop of the project:-

By searching in investment field we have found a problem that makes the process more difficult for investors which is the investor has to go physically to the location to see the desired area for the investment and to see the surrounded area to know if it is a company, a factory or residential area.

We solved this problem by making a website that provides for users to choose easier the desired area and to see the surrounded area if it is a company, a factory or residential area and he can reaches the website from his location without making an effort to go personally to the location.

By purchasing an account and using the website the user can see the area of October and he will be able to know many information about the selected location, And by using the filter tool he can know the location of factories and companies by a click without making an effort.

Without purchasing an account the user can also reaches the website and see the map but without knowing any detail about areas.

The user can contact with the admin if he finds any problem in the website.

1.3 What can we do with GIS?

GIS can be used as tool in both problem solving and decision making processes, as well as for visualization of data in a spatial environment. Geospatial data can be analyzed to determine , the location of features and relationships to other features, where the most and/or least of some feature exists, the density of features in a given space, what is happening inside an area of interest (AOI), what is happening nearby some feature or phenomenon, and how a specific area has changed over time (and in what way).

1.4 Benefits of GIS:

A Geographic Information System is computerized information management system design to manage, retrieve, capture analyze, display and store spatial data. Information gather and use in a GIS mostly presented on paper or on hard copy map.

It differs from other graphic system in several aspects such as;

First, data is geo reference to the coordinates of specific system projection. The system allows placement feature on earth surface precisely and retain the spatial relationship between the features of map.

Second, the software use relational information management to allocate series of characteristics to each spatial feature. Common characteristics identification key is used to link the attribute and spatial information between tables.

Third, it gives the capability to combine several data into composite information layer that can be a base layer in database.

The system allows for two types of information. The raster data of information like aerial photography or satellite imagery while the other uses vector (lines, polygons, points) to portray the earth's surface characteristics. Mostly the system enables the full integration of full types of data. On the other hand, a fully functioning and developing GIS permit the user to digitize and enter information that is geo based.

A Geographical Information System (GIS) permit us to question, analyze, interpret and visualize data to understand thoroughly the relationships, trend and patterns.

Here are some benefits of using GIS;

- **Cost Saving from great efficiency**

The system is used to improve daily fleet activities and maintenance schedules. In implementing the system it may cost great savings in operational expenses, staff time and have an efficient scheduling.

- **Decision making becomes better**

GIS is known for go to technology, for it makes better decision about area and location. Making right decision about certain location is hard and critical. That is why GIS is used to help and give an idea to formulate better decision to implement. [1]

1.5 Using GIS in transportation and roads:-

Using GIS in the field of transportation opens up a wide range of possible applications, as diverse as the field of transportation itself. Whether these are cars and trucks along a road, trains along a track, ships across the sea or airplanes in the sky, all applications have one thing in common: They are objects that move along a path in space. A GIS can provide a valuable tool for managing these objects in a spatially referenced context, viewing the paths as a transportation network. [2]

1.5.1 Planning and design:

GIS provides a valuable tool in the process of planning and designing roads. This is closely related to the term Computer Aided Design (CAD), but it is hard to tell at what level of detail CAD stops and where GIS actually begins. Modern software (e.g. Bentley's Micro station) tends to bridge this gap between discipline-specific applications and GIS in a way that they are fully integrated. A GIS can help visualize and communicate the effects of roads on their environment. Engineering drawings and maps may evoke a vivid landscape in minds of engineers familiar with them, but to decision makers or the public in general these drawings can be quite incomprehensible. Traditionally, displaying different route options and proposals has been done in the form of 2D maps, assisted by section drawings, maybe together with an aerial photo, where the road network was overlaid in the form of lines. It is simple and straightforward, but it is not conveying much information on the actual impact. Therefore, the UK Highways Agency has taken on building virtual showrooms, presenting the road by displaying a 3D drive-

through along a highway or a bird's eye view of the landscape from any angle the user wants to hover (Sinclair, 1999). This can be presented to a planning board or the public using ordinary PCs, or it can even be published on the Internet for open access to everybody. The highways agency in the French department de la Loire has been using GIS since 1989 for many purposes: Traffic accident patterns are visualized and safety improvements are made where they are most needed. By collecting significant data for the whole network, repairs and works budgeting have become more reliable and calculated in advance. First creating the optimal route between locations and then using GIS to decide how and where to sign, improved directions and movements in the road network and helped avoiding congestion (Marshall, 1995).

1.6 using GIS with buildings:

There is clearly a close relationship between GIS and building information modelling (BIM). BIM is a very broad term that describes the process of creating and managing digital information about a building or other facility (such as a bridge, highway, tunnel and so on). This can be useful for the design and operation of built assets.

BIM may use data from GIS, such as site information and spatial analysis and may produce data useful for GIS, such as energy consumption.

BIM (Building Information Modeling) and GIS (Geographic Information System) are two critical technologies, whose integration can bring exemplary results into digital construction. However, there remains a point of contention in this integration. While a group is stuck with the thought of BIM vs GIS, things are looking up with many experts following a more progressive thought of integrating the two. [3]

Chapter 2

Analysis

2.1 User requirements:

When the investor needs a free space to build factory, company, hospital, school, etc..., He wants a website that includes a map to provide details (land space, meter price, the best usage) of selected area.

2.2 How to achieve these requirements:

Creating a website using GIS that displays a map to show the user the available lands, meter price, the best usage, a selected area .

2.3 Creation of the website:

The user can access the website by a 1-free access or 2-a purchased access.

1-Free access: the user that can access the website without seeing any information or services provided by the website.

2-purchased access: the user register an account with annual fees then receives a verification code which allow the user to interact with the map.

For the registration the user will need to enter (Name, Email, and password) then to sign in will need to enter the username and password.

2.4 Filtration

We made a filtration tool that makes the process of searching easier for the user, it divides lands into categories and shows the availability of lands.

2.5 tools, techniques and language used:

To make the website we used:

1- HTML

2- CSS

3- HTML5

4- CSS3

5- JQuery

6- Bootstrap

7- PHP

8- MySQL

To make the map we used:

1- Google earth

2- ArcGIS

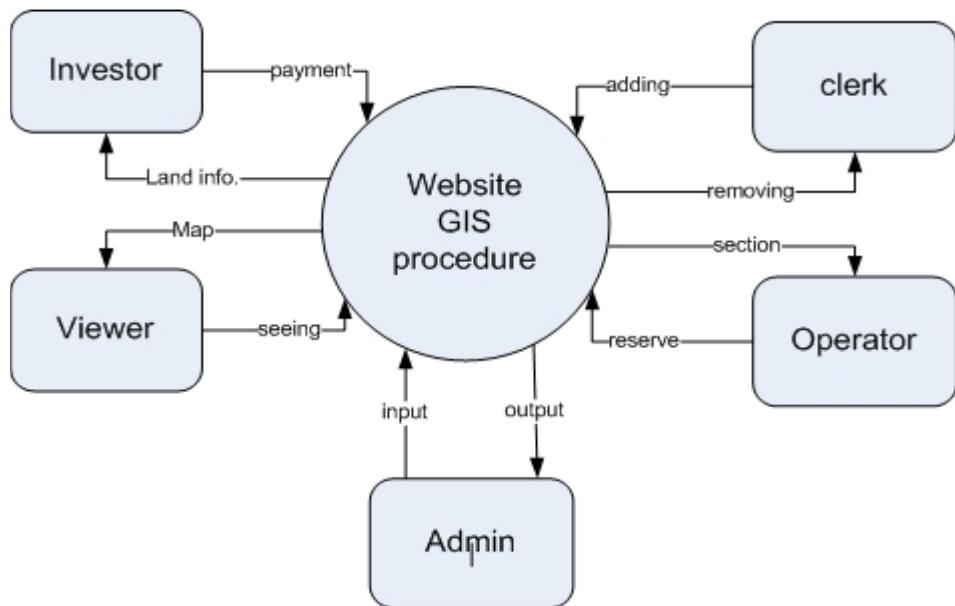
3- Online ArcGIS

Chapter 3

Design

3.1 System context diagram

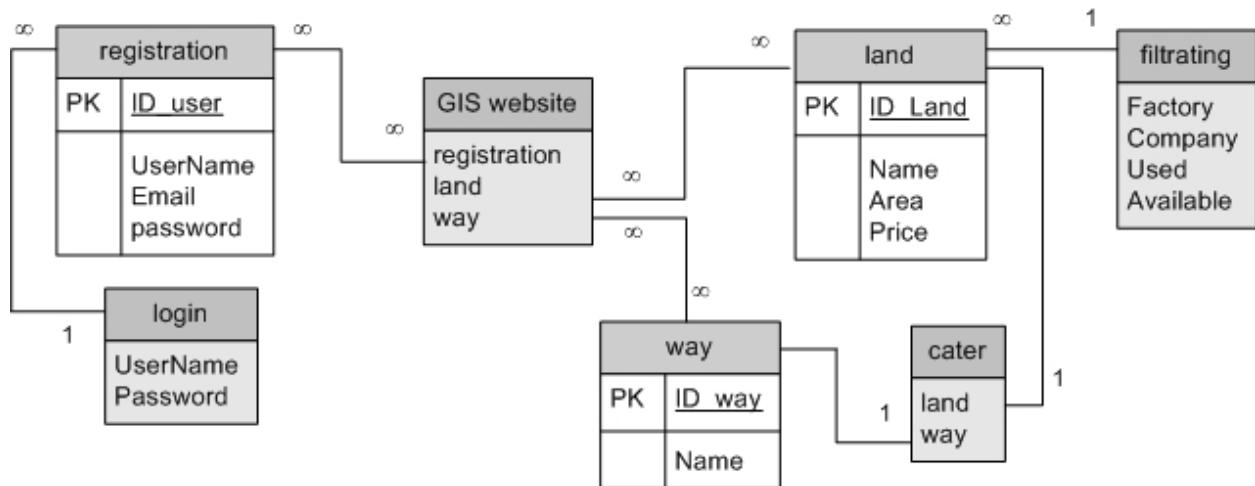
A **system context diagram** (SCD) in engineering is a diagram that defines the boundary between the system, or part of a system, and its environment, showing the entities that interact with it. This diagram is a high level view of a system. It is similar to a block diagram. [4]



3.2 Entity–relationship

An **entity–relationship model** (or **ER model**) describes interrelated things of interest in a specific domain of knowledge. A basic ER model is composed of entity types (which classify the things of interest) and specifies relationships that can exist between entities (instances of those entity types). In software engineering, an ER model is commonly formed to represent things a business needs to remember in order to perform business processes. Consequently, the ER model becomes an abstract data model, that defines a data or information structure which can be implemented in a database, typically a relational database.

Entity–relationship modeling was developed for database design by Peter Chen and published in a 1976 paper. However, variants of the idea existed previously. Some ER models show super and subtype entities connected by generalization-specialization relationships, and an ER model can be used also in the specification of domain specific ontologies. [5]



Chapter 4

Implementation

4.1 User open website

- Figure (4.1) is the first page that the user sees, when the user open the website to select if he have a premier account or to register in it or select user view.

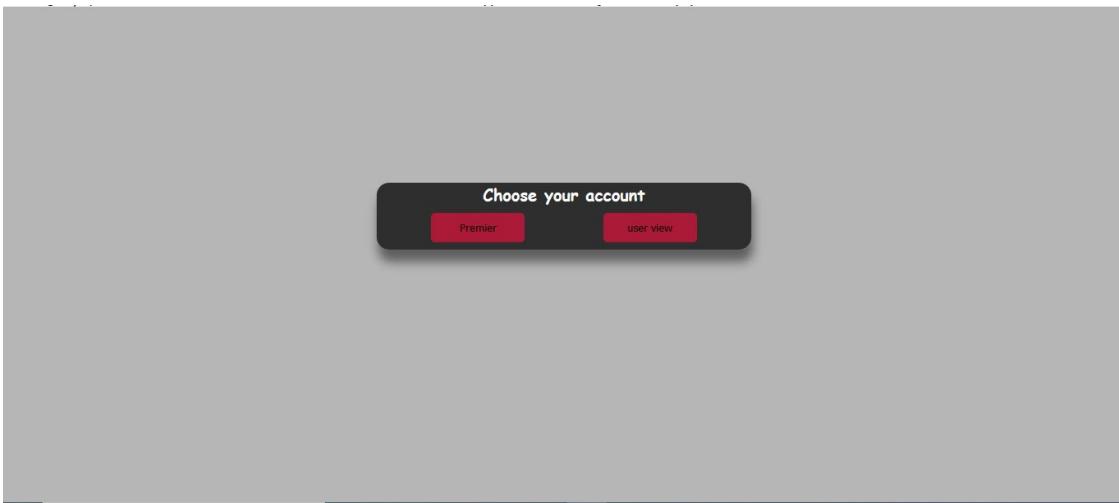


Figure (4.1)

4.2 makes his registration

- Figure (4.2) in this page the user makes his registration for the first time to visit our website or make sign in if he registered before.

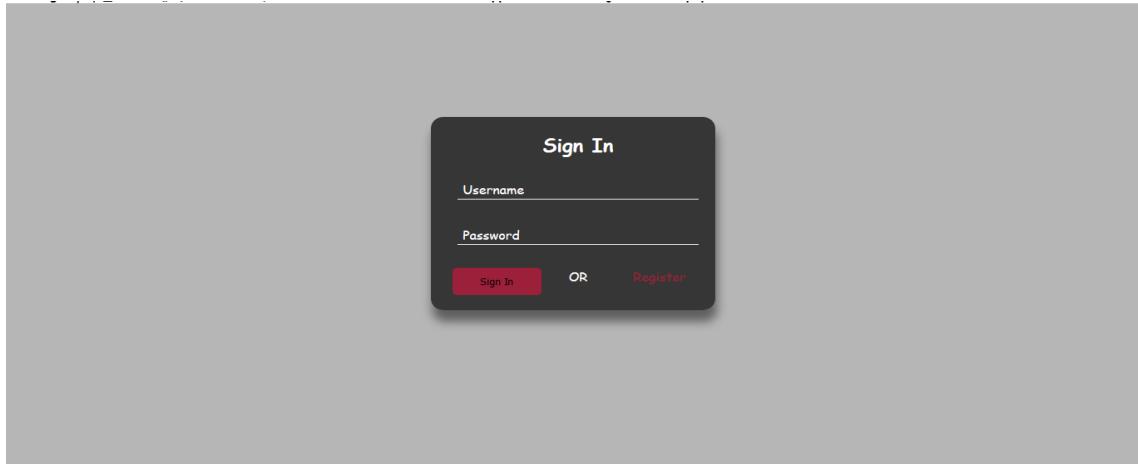


Figure (4.2)

4.3 Homepage

- Figure (4.3) the homepage of the website

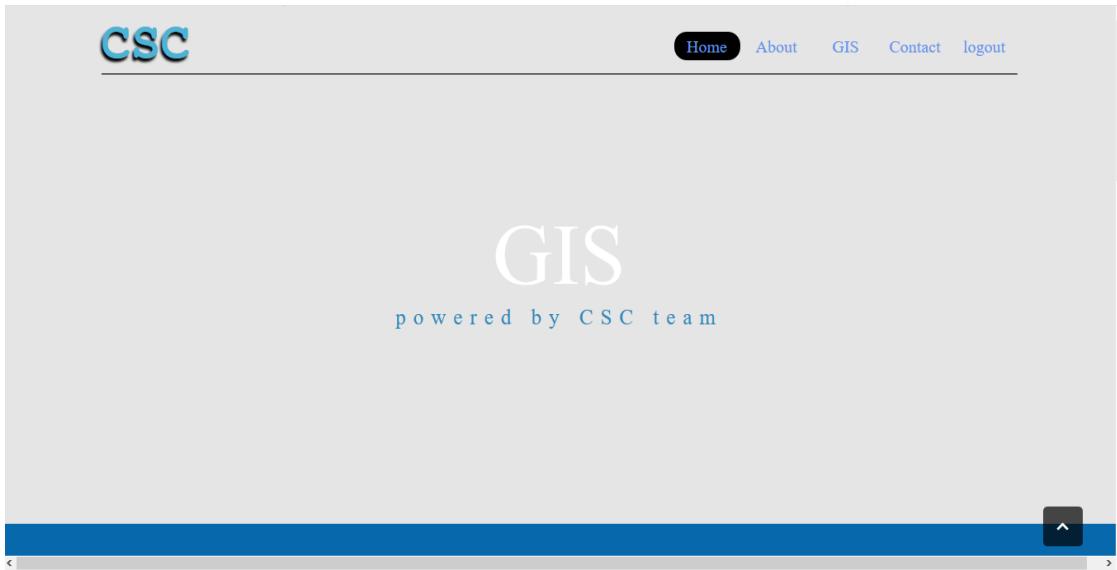


Figure (4.3)

4.4 Contact us

- Figure (4.4) the user can send any question or inquiries want to ask about, and this question sent to the mail of the website admin.

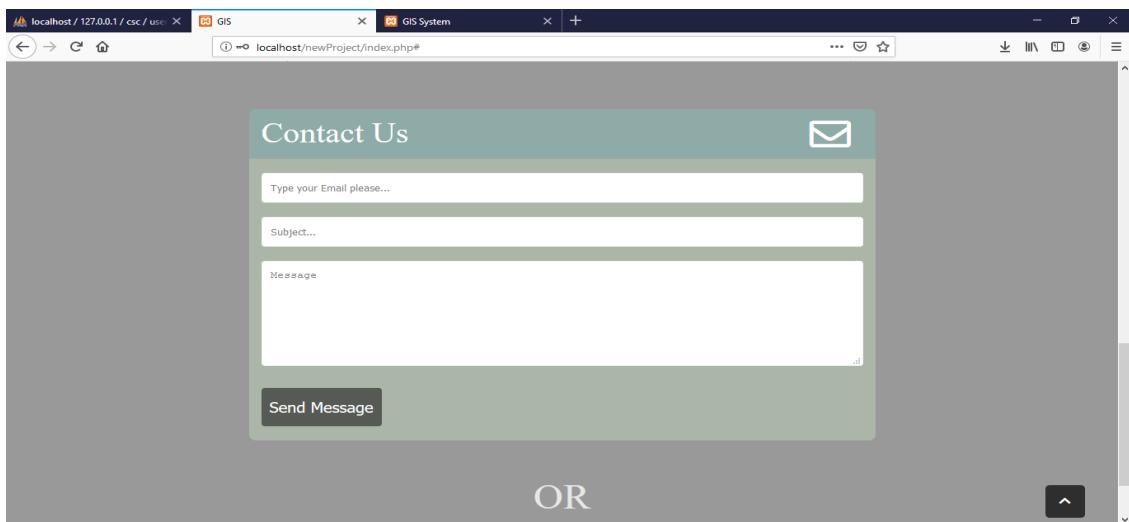


Figure (4.4)

4.5Page the arc map

- Figure (4.5) in this page the arc map which is represented in the website only purchased users can access, to know the information for what he search and also to make it easier, there is a filter option to select the required category.

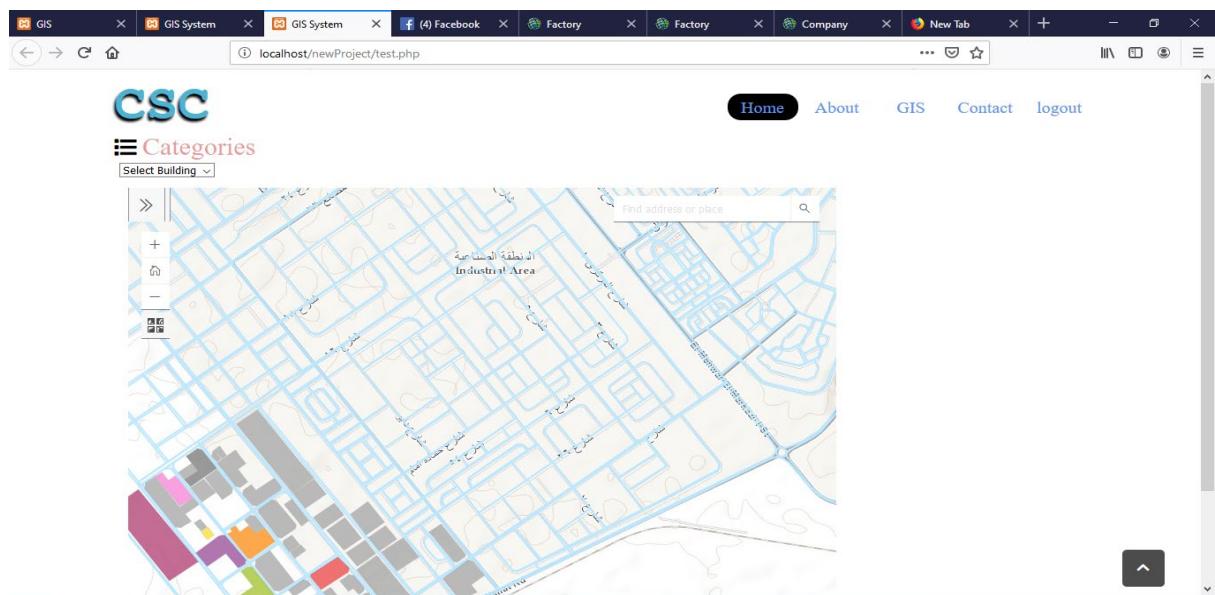


Figure (4.5)

Chapter 5

Testing

Web testing:

Web testing is a software testing practice to test the websites or web applications for potential bugs. It's a complete testing of web-based applications before making live.

A web-based system needs to be checked completely from end-to-end before it goes live for end users.

By performing website testing, an organization can make sure that the web-based system is functioning properly and can be accepted by real-time users.

Web Testing Checklists

- 1)** Functionality Testing
- 2)** Usability testing
- 3)** Interface testing
- 4)** Compatibility testing
- 5)** Performance testing
- 6)** Security testing

5.1 Functionality Testing

Test for – all the links in web pages, database connection, forms used for submitting or getting information from the user in the web pages, Cookie testing etc.

5.1.1 Check all the links:

- Test the outgoing links from all the pages to the specific domain under test.

- 'Test all internal links.
- Test links jumping on the same pages.
- Test links used to send email to admin or other users from web pages.
- Finally, link checking includes, check for broken links in all above-mentioned links.

5.1.2 Test forms on all pages:

Forms are an integral part of any website. Forms are used for receiving information from users and to interact with them. So what should be checked in these forms?

- First, check all the validations on each field.
- Check for default values of the fields.
- Wrong inputs in the forms to the fields in the forms.
- Options to create forms if any, form delete, view or modify the forms.

Let's take an example of the search engine project currently I am working on, in this project we have advertiser and affiliate signup steps. Each sign-up step is different but it's dependent on the other steps.

So sign up flow should get executed correctly. There are different field validations like email Ids, User financial info validations etc. All these validations should get checked in manual or automated web testing.

5.1.3 Validate your HTML/CSS:

If you are optimizing your site for Search engines then HTML/CSS validation is the most important one. Mainly validate the site for HTML syntax errors. Check if the site is compatible to different search engines.

5.1.4 Database testing:

Data consistency is also very important in a web application. Check for data integrity and errors while you edit, delete, modify the forms or do any DB related functionality. Check if all the database queries are executing correctly, data is retrieved and also updated correctly. More on database testing could be a load on DB, we will address this in web load or performance testing below.

5.1.4.1 In testing the functionality of the websites the following should be tested:

Links

- i. Internal Links
- ii. External Links
- iii. Mail Links
- iv. Broken Links

Forms

- i. Field validation
- ii. Error message for wrong input
- iii. Optional and Mandatory fields

Database

Testing will be done on the database integrity.

5.2 Usability Testing

Usability testing is the process by which the human-computer interaction characteristics of a system are measured, and weaknesses are identified for correction.

- Ease of learning
- Navigation

- Subjective user satisfaction
- General appearance

5.2.1 Test for navigation:

Navigation means how a user surfs the web pages, different controls like buttons, boxes or how the user uses the links on the pages to surf different pages.

5.2.2 Usability testing includes the following:

- The website should be easy to use.
- Instructions provided should be very clear.
- Check if the instructions provided are perfect to satisfy its purpose.
- The main menu should be provided on each page.
- It should be consistent enough.

5.2.3 Content checking:

Content should be logical and easy to understand. Check for spelling errors. Usage of dark colors annoys the users and should not be used in the site theme.

You can follow some standard colors that are used for web page and content building. These are the commonly accepted standards like what I mentioned above about annoying colors, fonts, frames etc.

Content should be meaningful. All the anchor text links should be working properly. Images should be placed properly with proper sizes.

These are some of the basic important standards that should be followed in web development.

5.3 Interface Testing:

In web testing, the server side interface should be tested. This is done by verifying that communication is done properly. Compatibility of the server with software, hardware, network, and the database should be tested.

5.3.1 The main interfaces are:

- Web server and application server interface
- Application server and Database server interface.

Check if all the interactions between these servers are executed and errors are handled properly. If database or web server returns an error message for any query by application server then application server should catch and display these error messages appropriately to the users.

Check what happens if the user interrupts any transaction in-between, Check what happens if the connection to the web server is reset in between.

5.4 Compatibility Testing:

Compatibility of your website is a very important testing aspect. See which compatibility test to be executed:

- Browser compatibility
- Operating system compatibility

5.4.1 Browser compatibility:

Some applications are very dependent on browsers. Different browsers have different configurations and settings that your web page should be compatible with.

Website coding should be a cross-browser platform compatible. If you are using java scripts or AJAX calls for UI functionality, performing security checks or validations then give more stress on browser compatibility testing of your web application.

Test web application on different browsers like Internet Explorer, Firefox, Netscape Navigator, AOL, Safari, Opera browsers with different versions.

5.4.2 OS compatibility:

Some functionality in your web application is that it may not be compatible with all operating systems. All new technologies used in web development like graphic designs, interface calls like different API's may not be available in all Operating Systems.

Hence test web application on different operating systems like Windows, MAC, and Linux with different OS flavors.

5.5 Performance testing:

The web application should sustain to heavy load. Web performance testing should include:

- Web Load Testing
- Web Stress Testing

Test application performance on different internet connection speed.

5.5.1 Web load testing: You need to test if many users are accessing or requesting the same page. Can system sustain in peak load times? The site should

handle many simultaneous user requests, large input data from users, simultaneous connection to DB, heavy load on specific pages etc.

5.5.2 Web Stress testing: Generally stress means stretching the system beyond its specified limits. Web stress testing is performed to break the site by giving stress and it's checked as for how the system reacts to stress and how it recovers from crashes. Stress is generally given on input fields, login and sign up areas. In web performance, testing website functionality on different operating systems and different hardware platforms is checked for software and hardware memory leakage errors.

Performance testing can be applied to understand the web site's scalability or to benchmark the performance in the environment of third-party products such as servers and middleware for potential purchase.

5.5.3 Connection Speed:

Tested on various networks like Dial-Up, ISDN etc.

5.5.4 Load:

- i. What is the number of users per time?
- ii. Check for peak loads and how the system behaves
- iii. A large amount of data accessed by the user

5.5.5 Stress:

- i. Continuous Load
- ii. Performance of memory, CPU, file handling etc..

5.6 Security Testing:

Following are some of the test cases for web security testing:

- Test by pasting internal URL directly into the browser address bar without login. Internal pages should not open.
- If you are logged in using username and password and browsing internal pages then try changing URL options directly. I.e. If you are checking some publisher site statistics with publisher site ID= 123. Try directly changing the URL site ID parameter to different site ID which is not related to the logged in user. Access should be denied for this user to view others stats.
- Try some invalid inputs in input fields like login username, password, input text boxes etc. Check the system's reaction to all invalid inputs.
- Web directories or files should not be accessible directly unless they are given download option.
- All transactions, error messages, security breach attempts should get logged in log files somewhere on the web server.

The primary reason for testing the security of a web is to identify potential vulnerabilities and subsequently repair them.

5.6.1 Types of Web Testing

A website is classified into many types, it is about 20 types. All these are shrinking under static and dynamic type. Among them let's discuss our type and its testing methods in a detailed manner.

5.6.2 Simple Static Website:

A simple static website will display the same content for all visitors who are visiting the website at different times. It is also known as an informational website. In a static website, the only developer can do changes that too in code only. This type of website will not have any major functionalities and it purely depends on UI design.

Testing a simple static website is very easy, you have to consider only a few things while testing.

5.6.2.1 Points to Remember:

- Testing the GUI design is must because static website purely depends on it. You need to compare the approved PSD files with web page developed. Check all the elements in the design should present in the developed page.
- The other part of GUI design is to check the font size, font style, spacing, and color everything has been reproduced.
- Secondly, you need to check the page links whether it is properly working or not and also find, if there is any broken link.
- Verify the spelling and content in all web pages by comparing the content given by the client.
- In some cases image will not display properly, it may break or sometimes images gets duplicated, wrong images may display. It has to be checked keenly. Because for a static website, only content and images will give lives.
- Check the scroll bar carefully. The issue you will face is unwanted scrolling appears or scroll gets hidden (it may hide the contents). Above issues are applicable for both horizontal and vertical scroll.
- If there is a contact form check it is working properly by sending some dummy messages.

5.6.2.2 Things to check in contact form are:

- Whether the message is sending properly and a success message appears
- Check email received to the concerned person in the proper format as designed
- Check email should not land in spam as junk mail

- If there is reply email trigger is activated then check whether the sender received mail
- URL should contain the correct page title
- Check the loading speed of the website. [A static website should not take much time for loading].
- Apart from these, there are huge things that have to be tested at the backend of every website that is system testing , security testing, interface testing, compatibility testing and performance testing etc. For these, you need to have technical knowledge. In a simple static website, you will not find more functionalities if there you need to do functionality testing too.

5.7 Testing by users:

Our website had been tested from different people to make sure that all the features are working correctly and the session's ends and breaks when the user logs out from the website.

5.7.1 Problems in testing:

-we could not connect the maps with the website but at the end we succeeded to connect the website with Arc map by using the online features of Esri website.

- The signup was in forums not in a different pages, when the user clicks on register and there is any mistake that he did, the website returns to the first forum and the user could not know where the error was.

-The gender in the database was always male and it was a big mistake but we had resolved it.

-At the beginning the user could make the password one number or one letter and the website was accepting this type of passwords but we modified this feature for the security so now the password must be at least 8 digits containing numbers and letters. [6]

Chapter 6

Conclusion

- We made a website to help investors or business users to choose the best location or area for a specific business in 6th of October city
- The user could see a news teller for the new available lands
- User could contact with the admin through the Contact Us field at home page via E-mail.
- This website contains two types of access for the website:

1-free access 2-purchased access

1-Free access: the user that can access the website without seeing any information or services provided by the website.

2-purchased access: the user registers an account with annual fees then receives a verification code which allow the user to interact with the map which contains factories and companies.

From the Benefits of purchased access:

- By selecting a specific area, the User could know the land spaces, the meter price and in which can be used (companies or factories).
 - Filtering tool that makes the search easier for the user, it divides lands into categories and shows the availability of lands.
- -We could not make all the planned categories which are (banks, hospitals universities and buildings).

Future work

The future vision for our website is to be a national website which cover all Egypt to be used by The Urban Communities Authority.

- About the navigation for the user inside the website for the selected destination it was hard to insert it to our website as it is a paid service.
- New sectors will be available regarding banks hospitals universities and buildings
- More changes can be done in addition to this website as well as the size of the geographical area provided by this site, but we need more requirements and financial support.
- The website will include advertisements to increase the income of the website to be developed.
- Online reservations feature will be available with the collaboration of the national banks of Egypt to facilitate the operation of selling and buying.

Code Login Page:

1.HTML& PHP:

```
<?php include('server.php') ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
    <title>GIS</title>
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css/all.css" integrity="sha384-B4dIYHKNBt8C12pwKhzcICoWtJAoUYZTY5gE0Id1G5seTk65+L3B1XeVIU" crossorigin="anonymous">
    <link rel="stylesheet" href="css/bootstrap-grid.min.css">
    <link rel="stylesheet" href="css/login.css">
```

This screenshot shows the initial PHP code for a login page. It includes basic HTML structure, meta tags, and links to external CSS files. A script tag for jQuery is also present.

```
echo '<article class="sign-in col-lg-3 col-md-4 col-sm-6 col-10" style="display:block" >';
    <h1>Sign In</h1>
    <form method="post" action="server.php">
        <php include('errors.php'); ?>
        <section class="input-box" >
            <input type="text" name="username" value=<?php if(isset($_SESSION['username'])) echo $_SESSION['username'] ?>" required="">
            <label>Username</label>
        </section>
        <section class="input-box" >
            <input type="password" name="password" required="">
            <label>Password</label>
        </section>
        <div class="row justify-content-around" >
            <input type="submit" name="login_user" value="Sign In" class="col-lg-4 col-md-4 col-sm-4 col-10" >
            <span class="or col-lg-2 col-md-2 col-sm-2 col-3" OR</span>
            <span class="reg col-lg-4 col-md-4 col-sm-4 col-10" Register</span>
        </div>
    </form>
</article>
</div>
<div class="row justify-content-center" >
    <article class="register-prem register col-lg-3 col-md-4 col-sm-6 col-10" style=<?php if(isset($_SESSION['type2']) && $_SESSION['type2'] == 'register') echo 'display:block' ?>" >
        <h2>Register</h2>
        <form method="post" action="server.php">
            <php include('errors.php'); ?>
            <section class="input-box" >
                <input type="text" name="username" value=<?php if(isset($_SESSION['username'])) echo $_SESSION['username'] ?>" required="">
                <label>Username</label>
            </section>
```

This screenshot shows the completed PHP code for the login page. It includes sections for logging in and registering, with form fields for username and password. The code uses Bootstrap's grid system and includes conditional logic for displaying the registration section based on session variables.

A screenshot of Sublime Text showing the code for `login.php`. The code is a form for user registration, including fields for email, password, gender selection (radio buttons), and a submit button. It also includes a note about payment methods.

```
<section> class="input-box">
<input type="email" name="email" value=<?php if(isset($_SESSION['email'])) echo $_SESSION['email'] ?>" required="">
<label>Email</label>
</section>
<section> class="input-box">
<input type="password" name="password_1" required="">
<label>Password</label>
</section>
<section> class="input-box">
<input type="password" name="password_2" required="">
<label>Confirm Password</label>
</section>
<input type="radio" value="None" id="radioOne" name="gender" class="radio-custom" checked />
<label class="radio" chec>Male</label>
<input style="margin-left: 20px" type="radio" value="None" id="radioTwo" name="gender" class="radio-custom" />
<label class="radio">Female</label>
<div class="type"></div>
<div class="row justify-content-around">
    <input type="submit" value="Register" name="reg_user" class="col-lg-4 col-md-4 col-sm-4 col-10">
</div>
<h5><span>Note:</span>Call or contact us to know how to pay</h5>
</form>
</article>
</div>
<?php unset($_SESSION['errors']); unset($_SESSION['type2']); ?>
</body>
</html>
```

2.CSS Code:

A screenshot of Sublime Text showing the code for `login.css`. The CSS styles define the appearance of the login page, including the body font, margin, padding, and background image, as well as styles for the overlay and account sections.

```
*{
    padding: 0;
    margin: 0px;
    box-sizing: border-box;
    text-decoration: none;
    list-style: none;
}
body{
    font-family: "Comic Sans MS", cursive, sans-serif;
    overflow: hidden;
}
.background{
    height: 100%;
    background-image: url(../DSC_0780.jpg);
    background-size: cover;
    /* background-position: center; */
    background-repeat: no-repeat;
    position: absolute;
    z-index: 1;
}
.overlay{
    background-color: rgba(3,3,3,0.58);
    opacity: 0.5;
    height: 100%;
    width: 100%;
    position: absolute;
    z-index: 2;
}
.account{
    background-color: rgba(0,0,0,0.75);
    position: absolute;
    top: 40%;
    z-index: 3;
```

F:\newProject\css\login.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css main.css test.css

```
padding: 20px;
padding-left: 32px;
background-color: rgba(0,0,0,0.7);
box-shadow: 2px 15px 12px rgba(0,0,0,0.48);
border-radius: 15px;
display: none;
```

.sign-in h1{
margin: 0 0 26px 0;
color: #fff;
text-align: center;
}

.sign-in .input-box{
position: relative;
}

.sign-in .input-box input{
width: 100%;
padding: 5px 10px;
font-size: 16px;
border: none;
border-bottom: 1px solid #fff;
outline: none;
background: transparent;
color: #fff;
margin-bottom: 30px;
}

.sign-in .input-box label{
position: absolute;
top: 0;
left: 0;
padding: 5px 6px;
font-size: 16px;
color: #fff;
pointer-events:none;
transition: .5s;

Line 105, Column 17

Spaces: 4 CSS

F:\newProject\css\login.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css main.css test.css

```
border-radius: 15px;
box-shadow: 2px 15px 12px rgba(0,0,0,0.48);
/* display: none; */
```

.account h2{
color: #fff;
font-size: 20px;
text-align: center;
}

.account #prem, #begin{
border: none;
padding: 10px 0;
background-color: rgba(224,18,60,.7);
cursor: pointer;
border-radius: 5px;
outline: none;
margin: 2% 0;
}

.account #prem{
margin-left: 4%;
}

.account #begin{
margin-right: 4%;
}

.account #prem:hover, #begin:hover{
transition: .4s;
background-color: rgba(224,18,60,1);
}

.sign-in{
position: absolute;
z-index: 3;
top: 30%;

Line 70, Column 14

Spaces: 4 CSS

F:\newProject\css\login.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css

```
106 }
107 .sign-in .input-box input:focus ~ label,
108 .sign-in .input-box input:valid ~ label{
109   top: -27px;
110   color: rgba(224,18,60);
111 }
112 .sign-in .input-box input:focus{
113   border-bottom: 1px solid rgba(224,18,60);
114 }
115 .sign-in input[type="submit"]{
116   border: none;
117   padding: 10px 20px;
118   background-color: rgba(224,18,60,.6);
119   cursor: pointer;
120   border-radius: 5px;
121 }
122 .sign-in input[type="submit"]:hover{
123   transition: .5s;
124   background-color: rgba(224,18,60,1);
125 }
126 .sign-in .or{
127   color: #fff;
128   text-align: center;
129 }
130 .sign-in .reg{
131   color: rgba(224,18,60,0.5);
132 /* margin-left: 11%; */
133   transition: .4s;
134   text-align: center;
135 }
136 .sign-in .reg:hover{
137   color: rgba(224,18,60,1);
138   cursor: pointer
139 }
140 }
```

Line 140, Column 1

Spaces: 4 CSS

F:\newProject\css\login.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css

```
141 /*Register*/
142
143 .register-prem{
144   position: absolute;
145   top: 20px;
146   z-index: 3;
147   padding: 20px;
148   background-color: rgba(0,0,0,0.7);
149   box-shadow: 2px 15px 12px rgba(0,0,0,0.48);
150   border-radius: 15px;
151   display: none;
152 }
153 .register-prem h1, veri-code h1 {
154   margin: 0 0 26px 0;
155   color: #fff;
156   text-align: center;
157 }
158 .veri-code .input-box, .register-prem .input-box{
159   position: relative;
160 }
161 .veri-code .input-box input,.register-prem .input-box input{
162   width: 100%;
163   padding: 5px 10px;
164   font-size: 16px;
165   border: none;
166   border-bottom: 1px solid #fff;
167   outline: none;
168   background: transparent;
169   color: #fff;
170   margin-bottom: 30px;
171 }
172 .veri-code .input-box label,.register-prem .input-box label{
173   position: absolute;
174   top: 0;
175   left: 0;
```

Line 175, Column 1

Spaces: 4 CSS

F:\newProject\css\login.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css

```
176     padding: 5px 6px;
177     font-size: 16px;
178     color: #fff;
179     pointer-events:none;
180     transition: .5s;
181 }
182 .veri-code .input-box input:focus ~ label,
183 .veri-code .input-box input:valid ~ label{
184     top: -27px;
185     color: rgb(224,18,60);
186 }
187 .register-prem .input-box input:focus ~ label,
188 .register-prem .input-box input:valid ~ label{
189     top: -27px;
190     color: rgb(224,18,60);
191 }
192 .veri-code .input-box input:focus, .register-prem .input-box input:focus{
193     border-bottom: 1px solid rgb(224,18,60);
194 }
195 .veri-code input[type="submit"],.register-prem input[type="button"]{
196     border: none;
197     padding: 10px 20px;
198     background-color: rgba(224,18,60,.6);
199     cursor: pointer;
200     border-radius: 5px;
201     display: block;
202     margin-top: 10px;
203 }
204 .veri-code input[type="submit"]:hover,.register-prem input[type="button"]:hover{
205     transition: .5s;
206     background-color: rgba(224,18,60,1);
207 }
208 .radio-custom{
209     border-radius: 50%;
210     cursor: pointer;
```

Line 210, Column 15

Spaces: 4 CSS

F:\newProject\css\login.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css

```
211 }
212 .radio{
213     color: #fff;
214 }
215 /*verification-code*/
216 .veri-code{
217     position: absolute;
218     top: 20px;
219     z-index: 3;
220     padding: 20px;
221     background-color: rgba(0,0,0,0.7);
222     box-shadow: 2px 15px 12px rgba(0,0,0,0.48);
223     border-radius: 15px;
224     display: none;
225 }
226 .veri-code input[type="submit"]{
227     margin-top: 0px;
228 }
229 .veri-code h5, .register-prem h5{
230     color: #fff;
231     font-family: sans-serif;
232     padding-top: 3%;
233 }
234 }
235
236
237
238
239 @media only screen and (max-width: 768px){
240     .account #prem{
241         margin: 2px;
242     }
243     .account #begin{
244         margin:2px;
```

Line 245, Column 19

Spaces: 4 CSS

F:\newProject\css\login.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css

```
244     margin:2%;}
245 }
246 }
247 }
248 @media only screen and (max-width: 575px){
249   .sign-in .or{
250     margin: 10px 0;
251   }
252 }
253
```

main.css

test.css

Line 245, Column 19

Spaces: 4

CSS

3. JS Code:

F:\newProject\js\login.js - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- bootstrap.min.js
- custom.js
- login.js
- test.js
- jquery.js

login.js

```
1 $(function() {
2   //$('.sign-in').fadeIn(1000)
3   $('.account').fadeOut(1000)
4   $('.reg').click(function(){
5     $('.account').fadeIn(1000)
6   })
7   $('.reg').click(function(){
8     $('.sign-in').fadeOut(1000)
9   });
10  $('#begin').click(function(){
11    $('.register').fadeIn(1000)
12  });
13  $('#begin').click(function(){
14    $('.account').fadeOut(1000)
15    var x = $('.type');
16    var s = $(this).data('type');
17    x.html('<input type="hidden" value="'+ s +'" name="type">');
18  });
19  $('#prem').click(function(){
20    $('.register').fadeIn(1000);
21  });
22  $('#prem').click(function(){
23    $('.account').fadeOut(1000)
24    var x = $('.type');
25    var s = $(this).data('type');
26    x.html('<input type="hidden" value="'+ s +'" name="type">');
27  });
28  $('#prem').click(function(){
29    $('.account').fadeOut(1000)
30    var x = $('.type');
31    var s = $(this).data('type');
32    x.html('<input type="hidden" value="'+ s +'" name="type">');
33  });
34  });
35
```

bootstrap.min.js

custom.js

test.js

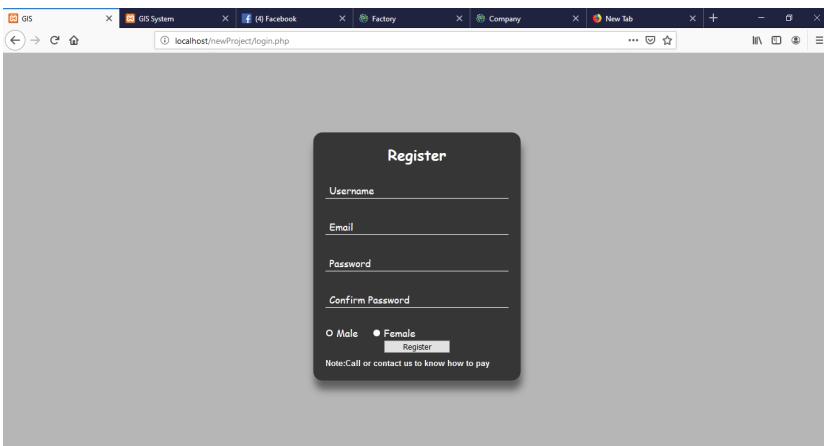
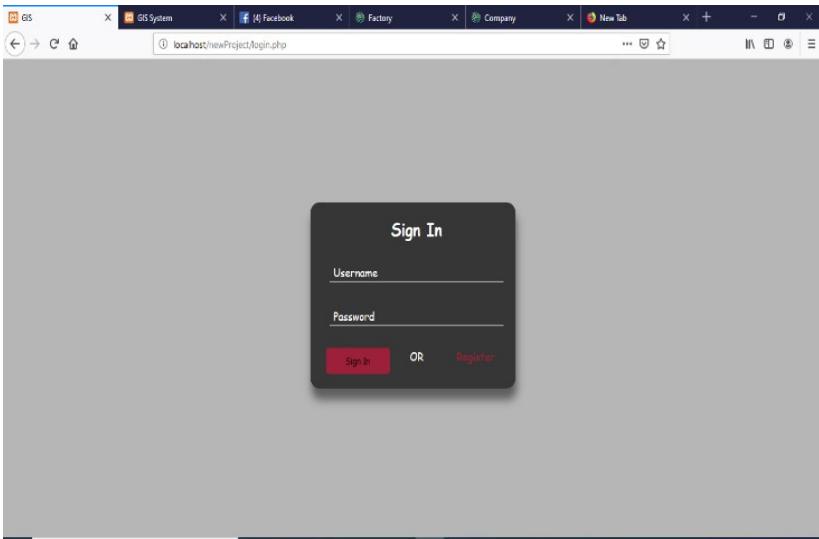
jquery.js

Line 1, Column 1

Spaces: 4

JavaScript

The Previous Code Produces This Pages:



Code Home Page:

1.HTML&PHP:

F:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES index.php

```
<?php
    session_start();

    if (!isset($_SESSION['success'])) {
        //$_SESSION['msg'] = "You must log in first";
        header('location: login.php');
    }
    if (isset($_GET['logout'])) {
        session_destroy();
        unset($_SESSION['success']);
        header("location: login.php");
    }
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width">
    <title>GIS</title>
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css/all.css"
        integrity="sha384-B4dIYHKNBt8Bc12p+WXckhzcICo0wtJAoU8YZTY5qE0Id1GSeTk6S+l3B1XeVIU"
        crossorigin="anonymous">
    <link rel="stylesheet" href="css/bootstrap-grid.min.css">
    <link rel="stylesheet" href="css/main.css">
```

Line 1, Column 1

Spaces: 2 PHP

F:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES index.php

```
<script src="js/jquery.js"></script>
<script src="js/custom.js"></script>
</head>
<body>
    <a id="gotop" href="#"></a>
    <div id="home" class="first-part">
        <div class="overlay"></div>
        <div class="container">
            <div class="row justify-content-center">

                <div class="logo col-12 col-md-4">CSC</div>
                <nav class="col-12 col-md-8">
                    <ul>
                        <li><a id="a" class="active" href="#" data-scroll="home">Home</a></li>
                        <li><a href="#" data-scroll="about-us" >About</a></li>
                        <?php if (( $_SESSION['type'] == 'premier')) : ?>
                        <li><a href="test.php" target="_blank" data-scroll="services" >GIS</a></li>
                        <?php endif ?>
                        <li><a href="#" data-scroll="contact-us" >Contact</a></li>
                        <?php if (isset($_SESSION['success'])) : ?>
                        <li><a href="index.php?logout='1'" data-scroll="contact-us" >logout</a></li>
                        <?php endif ?>
                    </ul>
                </nav>
            </div>
            <hr>
```

Line 50, Column 9

Spaces: 2 PHP

E:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

x index.php

```
51 <section>
52     <article class="word">gis</article>
53     <article class="power">powered by CSC team</article>
54 </section>
55 </div>
56 </div>
57
58
59 <!-- About-->
60 <div class="second-part" id="about-us">
61     <section>
62         <article class="word">gis</article>
63         <article class="gis">geographic information system</article>
64     </section>
65     <div class="container">
66         <section class="row justify-content-center">
67             <article class="col-12 col-md-3">
68                 <i class="far fa-edit"></i>
69                 <h3>feature one</h3>
70                 <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Repellendus quibusdam aliquam ab quas quasi beatae officiis sint eum, illum vero.</p>
71             </article>
72             <article class="col-12 col-md-3">
73                 <i class="far fa-comment"></i>
74                 <h3>feature two</h3>
75                 <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Repellendus
```

Line 75, Column 50 Spaces: 2 PHP

E:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

x index.php

```
76         </article>
77         <article class="col-12 col-md-3">
78             <i class="fas fa-search"></i>
79             <h3>feature three</h3>
80             <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Repellendus quibusdam aliquam ab quas quasi beatae officiis sint eum, illum vero.</p>
81         </article>
82         <article class="col-12 col-md-3">
83             <i class="fas fa-link"></i>
84             <h3>feature four</h3>
85             <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Repellendus quibusdam aliquam ab quas quasi beatae officiis sint eum, illum vero.</p>
86         </article>
87     </section>
88 </div>
89 </div>
90
91 <!-- contact us-->
92 <div class="third-part" id="contact-us">
93     <div class="overlay"></div>
94     <div class="container">
95         <section class="row justify-content-md-center justify-content-center">
96             <article class="col-11 col-md-8 form">
97                 <p class="contact">Contact Us</p>
98                 <i class="far fa-envelope mail-logo"></i>
99             </article>
```

Line 75, Column 50 Spaces: 2 PHP

F:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES index.php

```
100      </section>
101      <section class="row justify-content-md-center justify-content-center">
102          <article name="contact" class="col-11 col-md-8 form-bottom">
103              <?php
104                  if (isset($_SESSION['send'])) {
105                      echo '<div style="color:green;"'. $_SESSION['send'] . '</div>';
106                      unset($_SESSION['send']);
107                  }
108              ?>
109              <form method="post" action="contact.php">
110                  <input type="email" name="email" class="mail" required placeholder="Type your
111                      Email please...">
112                  <input type="text" name="subject" class="mail" required placeholder="Subject...">
113                  <textarea rows="7" cols="40" placeholder="Message" required name="message" class="textarea"></textarea>
114                  <input type="submit" name="contact" value="Send Message" class="send">
115              </form>
116          </article>
117      </section>
118      <p class="or">or</p>
119      <section class="row justify-content-md-center justify-content-center">
120          <article class="col-5 col-md-2">
121              <a target="_blank" href="https://www.facebook.com/rana.elshishtawy?epa=SEARCH_BOX">
122                  <img alt="Facebook logo" class="facebook" version="1.1" id="Layer_1" xmlns="http://www.w3.org/2000/svg"
123                      viewBox="0 0 408.788 408.788" style="enable-background:new 0 0 408.788 408.788;" xml:space="
```

Line 121, Column 43 Spaces: 2 PHP

F:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES index.php

```
123      <path style="fill:#475993;" d="
124          M353.701,0H55.087C24.665,0,0.002,24.662,0.002,55.085v298.616c0,30.423,24.662,55.085,55.085,55.085
125          h147.27510.251-146.078h-37.951c-4.932,0-8.935-3.988-8.954-8.921-0.182-47.087c-0.019-4.959,3.996-8.98
126          9,8.955-8.989h37.882
127          v-45.498c0-52.8,32.247-81.55,79.348-81.55h38.65c4.945,0,8.955,4.009,8.955,8.955v39.704c0,4.944-4.007
128          ,8.952-8.95,8.955
129          l-23.719,0.011c-25.615,0-30.575,12.172-30.575,30.035v39.389h56.285c5.363,0,9.524,4.683,8.892,10.0091
130          -5.581,47.087
131          c-0.534,4.506-4.355,7.901-8.892,7.901h-50.453l-0.251,146.078h87.631c30.422,0,55.084-24.662,55.084-55
132          .084V55.085
133          C408.786,24.662,384.124,0,353.701,0z"/>
134      <g>
135      </g>
136      <g>
137      </g>
138      <g>
139      </g>
140      <g>
141      </g>
142      <g>
143      </g>
```

Line 121, Column 43 Spaces: 2 PHP

F:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES index.php

```
206     <article class="col-5 col-md-2">
207         <a href="#">
208             <svg class="twitter" id="Logo_FIXED" data-name="Logo - FIXED" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 400 400"><defs><style>.cls-1{fill:none;}.cls-2{fill:#1da1f2;}</style></defs><title>Twitter_Logo_Blue</title><rect class="cls-1" width="400" height="400"/><path class="cls-2" d="M153.62,301.59c94.34,0,145.94-78.16,145.94-145.94,0-2.22,0-4.43,-15-6.63a104.36,104.36,0,0,0,.325,122.47a102.38,102.38,0,0,1-29.46,8.07,51.47,51.47,0,0,22.55-28.37,102.79,102.79,0,0,1-32.57,12.45,51.34,51.34,0,0,0-87.41,46.78a145.62,145.62,0,0,1,92.4,107.81a51.33,51.33,0,0,0,15.88,68.47a50.91,50.91,0,0,1,85,169.86c0,.21,0,.43,0,.65a51.31,51.31,0,0,0,41.15,50.28,51.21,51.21,0,0,1-23.16.88,51.35,51.35,0,0,0,47.92,5.62,102.92,102.92,0,0,1-63.7,22a104.41,104.41,0,0,1,75,278.55a145.21,145.21,0,0,0,78.62,23"/></svg>
209         </a>
210     </article>
211     <article class="col-5 col-md-2">
212         <a href="#">
213             <svg class="inst" version="1.1" id="Layer_1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" x="0px" y="0px"
214             viewBox="0 0 551.034 551.034" style="enable-background:new 0 0 551.034 551.034;" xml:space="preserve">
215                 <g>
216
217                     <linearGradient id="SVGID_1_" gradientUnits="userSpaceOnUse" x1="275.517" y1="4.57" x2="275.517" y2="549.72" gradientTransform="matrix(1 0 0 -1 0 554)">
218                         <stop offset="0" style="stop-color:#E09B3D"/>
```

Line 218, Column 43 Spaces: 2 PHP

F:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES index.php

```
219             <stop offset="0.3" style="stop-color:#C74C4D"/>
220             <stop offset="0.6" style="stop-color:#C21975"/>
221             <stop offset="1" style="stop-color:#7024C4"/>
222         </linearGradient>
223         <path style="fill:url(#SVGID_1_);" d="M386.878,0H164.156C73.64,0,0,73.64,0,164.156v222.722
224             c0,90.516,73.64,164.156,164.156,164.156h222.722c90.516,0,164.156-73.64,164.156-164.156V164.156
225             C551.033,73.64,477.393,0,386.878,0z M495.6,386.878c0,50.045-48.677,108.722-108.722,108.722h164.156
226             c-60.045,0-108.722-48.677-108.722-108.722V164.156c0-60.046,48.677-108.722,108.722-108.722h222.722
227             c60.045,0,108.722,48.676,108.722,108.722L495.6,386.878L495.6,386.878z"/>
228
229         <linearGradient id="SVGID_2_" gradientUnits="userSpaceOnUse" x1="275.517" y1="4.57" x2="275.517" y2="549.72" gradientTransform="matrix(1 0 0 -1 0 554)">
230             <stop offset="0" style="stop-color:#E09B3D"/>
231             <stop offset="0.3" style="stop-color:#C74C4D"/>
232             <stop offset="0.6" style="stop-color:#C21975"/>
233             <stop offset="1" style="stop-color:#7024C4"/>
234         </linearGradient>
235         <path style="fill:url(#SVGID_2_);" d="M275.517,133C196.933,133,133,196.933,133,275.516s63.933,142.517,142.517,142.517
236             S418.034,354.1,418.034,275.516s354.101,133,275.517,133z
237             M275.517,362.6c-48.095,0-87.083-38.988-87.083-87.083
238             s38.989-87.083,87.083-87.083c48.095,0,87.083,38.988,87.083,87.083c362.6,323.611,323.611,362.6,275.
239             517,362.6z"/>
240
241         <linearGradient id="SVGID_3_" gradientUnits="userSpaceOnUse" x1="418.31" y1="4.57" x2="418.31" y2="549.72" gradientTransform="matrix(1 0 0 -1 0 554)">
```

Line 239, Column 53 Spaces: 2 PHP

F:\newProject\index.php - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

index.php

```
239 <linearGradient id="SVGID_3_" gradientUnits="userSpaceOnUse" x1="418.31" y1="4.57" x2="418.31" y2="549.72" gradientTransform="matrix(1 0 -1 0 554)">
240 <stop offset="0" style="stop-color:#E09B3D"/>
241 <stop offset="0.3" style="stop-color:#C74C4D"/>
242 <stop offset="0.6" style="stop-color:#C21975"/>
243 <stop offset="1" style="stop-color:#7024C4"/>
244 </linearGradient>
245 <circle style="fill:url(#SVGID_3_);" cx="418.31" cy="134.07" r="34.15"/>
246 </g>
247 <g>
248 </g>
249 <g>
250 </g>
251 <g>
252 </g>
253 <g>
254 </g>
255 <g>
256 </g>
257 <g>
258 </g>
259 <g>
260 </g>
261 <g>
262 </g>
263 <g>
```

Line 239, Column 155

Spaces: 2

PHP

2. CSS Code:

F:\newProject\css\main.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

login.css main.css test.css

main.css

```
1 *{
2     padding: 0;
3     margin: 0px;
4     box-sizing: border-box;
5     text-decoration: none;
6     list-style: none;
7 }
8 .first-part{
9     background-image: url(..../showcase.jpg);
10    background-size: cover;
11    min-height: 600px;
12    overflow: hidden;
13    position: relative;
14    z-index: 1;
15 }
16 .first-part .overlay{
17    background-color:rgba(0,0,0,0.2);
18    opacity: 0.5;
19    height: 100%;
20    width: 100%;
21    position: absolute;
22    z-index: 2;
23 }
24 .first-part .logo{
25     float: left;
26     font-size: 60px;
27     color: #4eb3d3;
28 /*     color: rgba(32,62,166,0.8); */
29     font-family: courier,monospace;
30     font-weight:bold;
31     margin-top: 10px;
32     position: relative;
33     z-index: 3;
34     text-shadow: -2px 4px 2px #000;
35 }
```

Line 317, Column 1

Spaces: 4

CSS

F:\newProject\css\main.css - Sublime Text (UNREGISTERED)

```
OPEN FILES
login.css
main.css
test.css
main.css
36 .first-part nav
37 {
38     position: relative;
39     z-index: 3;
40 }
41 .first-part nav ul{
42     float: right;
43 }
44 .first-part nav li{
45     display: inline-block;
46     margin-top: 30px;
47     font-size: 20px;
48     width: 80px;
49 }
50 .first-part nav li a{
51     color: cornflowerblue;
52     display: block;
53     text-align: center;
54     padding: 5px;
55 }
56 .first-part .active{
57     background-color: #000;
58     border-radius: 15px;
59 }
60
61 .first-part nav li a:hover{
62     background-color: #000;
63     border-radius: 15px;
64     transition: 1s;
65 }
66 .first-part .word{
67     font-size: 100px;
68     color: #fff;
69     text-transform: uppercase;
70     text-align: center;
```

Line 70, Column 17 Spaces: 4 CSS

F:\newProject\css\main.css - Sublime Text (UNREGISTERED)

```
OPEN FILES
login.css
main.css
test.css
main.css
71     margin-top: 150px;
72     position: relative;
73     z-index: 3;
74 }
75 .first-part .power{
76     font-size: 25px;
77 /*     color: rgb(32,62,250); */
78     color: #2b8cbe;
79     text-align: center;
80     letter-spacing: 9px;
81     position: relative;
82     z-index: 3;
83 }
84 #gotop{
85 /*     display:none; */
86     position: fixed;
87     z-index: 999;
88     bottom:1.7%;
89     right: 3%;
90     background-color: rgba(0,0,0,0.7);
91     padding: 14px 17px;
92     border-radius: 5px;
93     color: #fff;
94 }
95 #gotop:hover{
96     background-color: rgba(0,0,0,1);
97     transition: 0.9s;
98 }
99
100 .second-part{
101     background-color: #0868ac;
102     min-height: 400px;
103     position: relative;
104 }
105 .second-part .word{
```

Line 105, Column 20 Spaces: 4 CSS

F:\newProject\css\main.css - Sublime Text (UNREGISTERED)

```
OPEN FILES
• login.css
• main.css
× test.css
login.css main.css test.css
106     color: rgba(250,250,250,0.4);
107     font-size: 170px;
108     text-align: center;
109     text-transform: uppercase;
110     padding-top: 50px;
111 }
112 .second-part .gis{
113     color: #ffff;
114     font-size: 50px;
115     text-transform: uppercase;
116     position: absolute;
117     top:120px;
118     left: 0;
119     text-align: center;
120     width: 100%;
121 }
122 .second-part article i{
123     color: #ffff;
124     font-size: 30px;
125     text-align: center;
126     margin-bottom: 30px;
127     background-color: #4eb3d3;
128 /*     background-color: rgb(92,145,222);*/
129     padding: 20px;
130     border-radius: 50px;
131     margin-left: 36px;
132     margin-top: 40px;
133 }
134 .second-part article h3{
135     text-transform: uppercase;
136     text-align: center;
137     color: #ffff;
138     margin-bottom: 20px;
139 }
140 .second-part article p{
```

Line 140, Column 24

Spaces: 4

CSS

F:\newProject\css\main.css - Sublime Text (UNREGISTERED)

```
OPEN FILES
• login.css
• main.css
× test.css
login.css main.css test.css
141     text-align: center;
142     color: #ffff;
143     padding-bottom: 20px;
144 }
145
146 .third-part{
147     background-image: url(..\american-best-friends-blond-hair-1574650.jpg);
148     min-height: 400px;
149     background-size: cover;
150     background-position: center;
151     position: relative;
152     z-index: 1;
153 }
154 .third-part .overlay{
155     background-color:rgba(0,0,0,0.4);
156     height: 100%;
157     width: 100%;
158     position: absolute;
159     z-index: 2;
160 }
161 .third-part .form{
162     margin-top: 6%;
163     color: #ffff;
164     font-size: 40px;
165     float: left;
166     background-color: rgba(123,204,196,0.35);
167     border-radius: 8px 8px 0 0;
168     overflow: hidden;
169     position: relative;
170     z-index: 3;
171 }
172 .third-part .contact{
173     float: left;
174     padding: 10px 0;
175 }
```

Line 175, Column 2

Spaces: 4

CSS

F:\newProject\css\main.css • - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css main.css test.css

```
176 .third-part .mail-logo{  
177     float: right;  
178     font-size: 50px;  
179     padding-right: 2%;  
180     padding-top: 10px;  
181     padding-bottom: 10px;  
182 }  
183 .third-part .form-bottom{  
184     position: relative;  
185     z-index: 3;  
186     background-color: rgba(204,235,197,0.35);  
187     margin-bottom: 50px;  
188     border-radius: 0 0 8px 8px ;  
189 }  
190 .third-part .mail{  
191     margin-top: 20px;  
192     border-radius: 4px;  
193     width: 100%;  
194     border: 1px solid rgba(204,235,197,0.35);  
195     /* margin-bottom: 30px; */  
196     padding: 12px 10px;  
197 }  
198 .third-part .textarea{  
199     margin-top: 20px;  
200     border-radius: 4px;  
201     width: 100%;  
202     border: 1px solid rgba(204,235,197,0.35);  
203     margin-bottom: 30px;  
204     padding: 12px 10px;  
205 }  
206 .third-part .mail:focus , .textarea:focus {  
207     border-radius: 20px;  
208     outline: none;  
209     transition: 0.5s ;  
210     border-color: aqua
```

Line 210, Column 19 Spaces: 4 CSS

F:\newProject\css\main.css • - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css main.css test.css

```
211 }  
212 .third-part .send{  
213     padding: 15px 10px;  
214     font-size: 20px;  
215     margin-bottom: 20px;  
216     background-color: rgba(0,0,0,0.5);  
217     color: #fff;  
218     border: 0;  
219     border-radius: 4px;  
220 }  
221 .third-part .send:hover{  
222     cursor: pointer;  
223     background-color: rgba(0,0,0,0.8);  
224     transition: 0.5s;  
225 }  
226 .third-part .or{  
227     text-transform: uppercase;  
228     color: rgba(250,250,250,0.8);  
229     position: relative;  
230     z-index: 3;  
231     font-size: 50px;  
232     text-align: center;  
233     margin-bottom: 20px;  
234 }  
235 .third-part .facebook{  
236     height: 105px;  
237     font-size: 30px;  
238     position: relative;  
239     z-index: 3;  
240     border-radius: 50%;  
241     color: rgba(56,161,243);  
242     border: 1x solid grey;  
243     box-shadow: 0px 0px 2px #888;  
244     padding: 0.5em 0.6em;  
245     background: rgba(250,250,250,0.1);
```

Line 245, Column 34 Spaces: 4 CSS

F:\newProject\css\main.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- login.css
- main.css
- test.css

login.css main.css test.css

```
246 }
247 .third-part .facebook:hover{
248     background: rgba(250,250,250,0.2);
249     box-shadow: 0px 0px 4px #fff;
250     font-size: 45px;
251     transition: 0.5s;
252     transition-duration: 0.5s;
253 }
254 .third-part .twitter{
255     height: 105px;
256     /* height: 90%; */
257     /* width: 70%; */
258     position: relative;
259     z-index: 3;
260     border-radius: 50%;
261     border: 1x solid grey;
262     box-shadow: 0px 0px 2px #888;
263     padding: 0.5em 0.6em;
264     background: rgba(250,250,250,0.1);
265 }
266 .third-part .twitter:hover{
267     background: rgba(250,250,250,0.2);
268     box-shadow: 0px 0px 5px #fff;
269     font-size: 40px;
270     transition: 0.5s;
271     transition-duration: 0.5s;
272 }
273 .third-part .inst{
274     height: 105px;
275     font-size: 30px;
276     position: relative;
277     z-index: 3;
278     border-radius: 50%;
279     border: 1x solid grey;
280     box-shadow: 0px 0px 2px #888;
```

Line 280, Column 16 Spaces: 4 CSS

F:\newProject\css\main.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

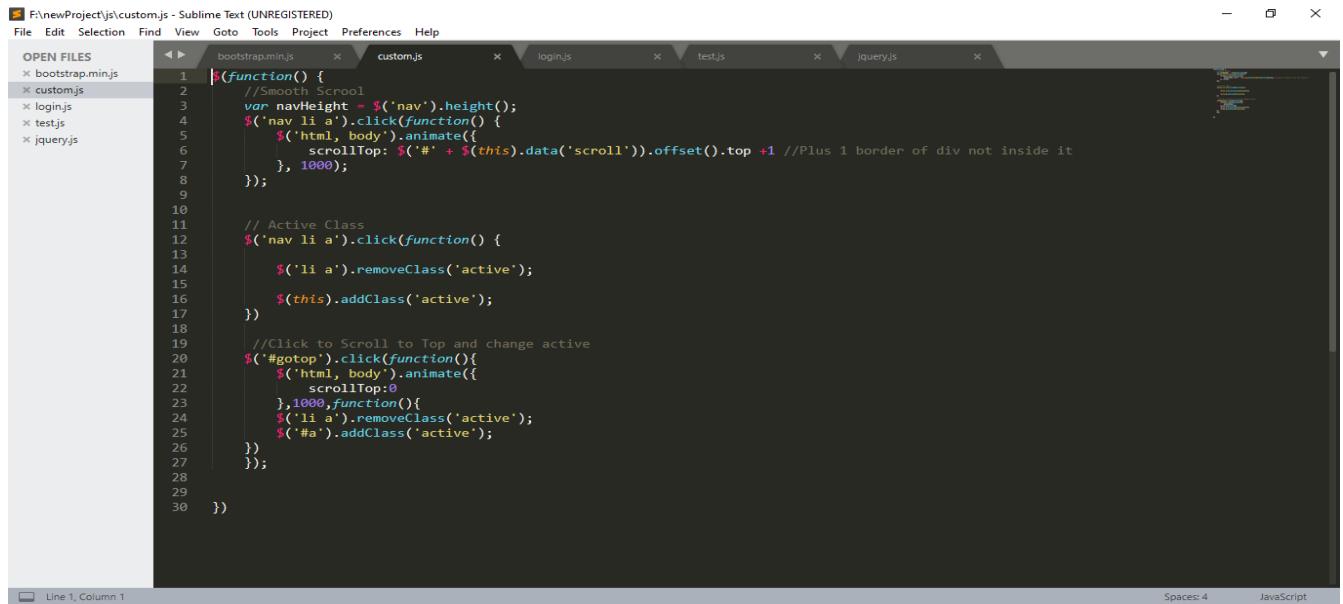
- login.css
- main.css
- test.css

login.css main.css test.css

```
281     padding: 0.5em 0.6em;
282     background: rgba(250,250,250,0.1);
283 }
284 .third-part .inst:hover{
285     background: rgba(250,250,250,0.2);
286     box-shadow: 0px 0px 5px #fff;
287     font-size: 45px;
288     transition: 0.5s;
289     transition-duration: 0.5s;
290 }
291 /* Small devices (landscape phones, 576px and up) */
292 @media screen and (max-width: 600px) {
293     .first-part .logo{
294         text-align: center;
295         font-size: 70px;
296         float: none;
297     }
298     .first-part nav ul{
299         float: none;
300         text-align: center;
301     }
302     .second-part .word{
303         font-size: 210px;
304     }
305     .second-part .gis{
306         top:80px;
307     }
308     .second-part article i{
309         margin-left: 39%;
310     }
311 }
312 /* Medium devices (tablets, 768px and up) */
313 @media (min-width: 768px) { ... }
314
315
```

Line 311, Column 6 Spaces: 4 CSS

3. JS Code:



The screenshot shows the Sublime Text editor with multiple tabs open. The current tab is 'custom.js' which contains the following JavaScript code:

```
$function() {
    //Smooth Scroll
    var navHeight = $('nav').height();
    $('nav li a').click(function() {
        $('html, body').animate({
            scrollTop: $('#' + $(this).data('scroll')).offset().top + 1 //Plus 1 border of div not inside it
        }, 1000);
    });

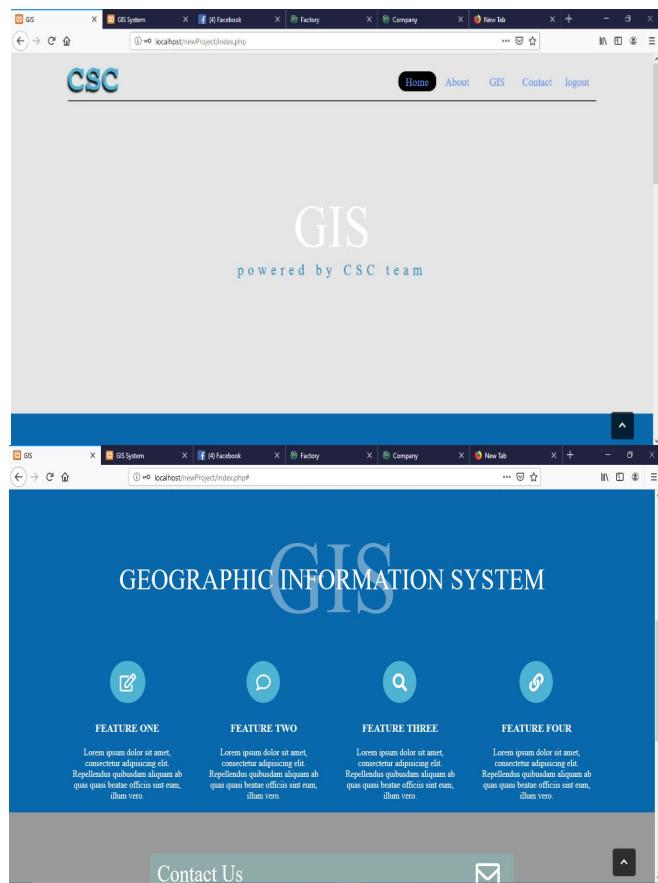
    // Active Class
    $('nav li a').click(function() {
        $('li a').removeClass('active');
        $(this).addClass('active');
    });

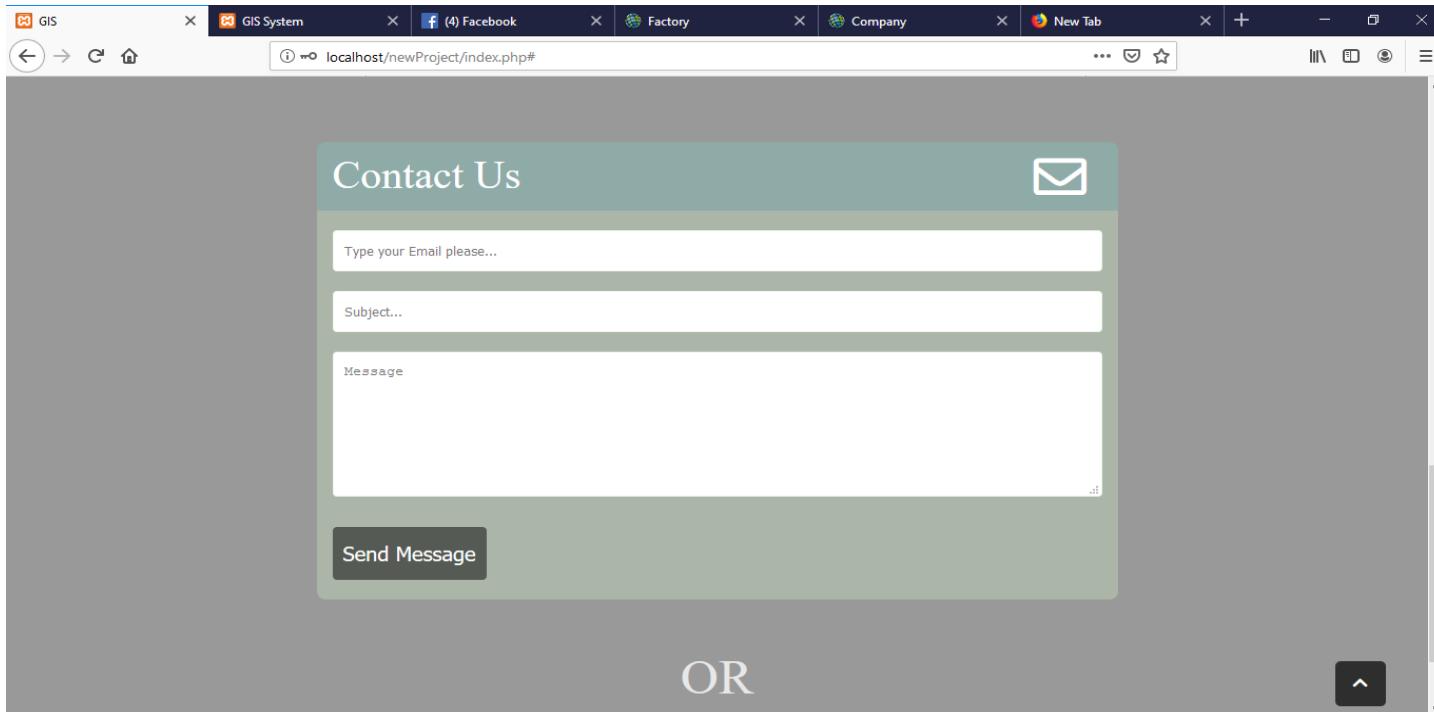
    //Click to Scroll to Top and change active
    $('#gotop').click(function(){
        $('html, body').animate({
            scrollTop:0
        },1000,function(){
            $('li a').removeClass('active');
            $('#a').addClass('active');
        });
    });
};

30});
```

Below the code, the status bar indicates 'Line 1, Column 1' and 'Spaces: 4 JavaScript'.

The Previous Code Produces This Page:





GIS Page:

1. HTML & PHP:

F:\newProject\test.php - Sublime Text (UNREGISTERED)

```

File Edit Selection Find View Goto Tools Project Preferences Help
OPEN FILES
  server.php
  test.php
  map.php
1 <?php
2   session_start();
3
4   if (!isset($_SESSION['success'])) {
5     //$_SESSION['msg'] = "You must log in first";
6     header('location: login.php');
7   }
8   if (isset($_GET['logout'])) {
9     session_destroy();
10    unset($_SESSION['success']);
11    header("location: login.php");
12  }
13?>
14  <!DOCTYPE html>
15  <html>
16  <head>
17    <meta charset="UTF-8">
18    <meta name="viewport" content="width=device-width">
19    <title>GIS System</title>
20    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css/all.css" integrity="sha384-B4dIYKNBt8Bc12p+WxckhzlCo0wtJAoU8YZTY5qE0Id1GsseTk6S+L3B1XeVIU" crossorigin="anonymous">
21    <link rel="stylesheet" href="css/bootstrap-grid.min.css">
22    <link rel="stylesheet" href="css/test.css">
23    <link rel="stylesheet" href="css/main.css">
24    <script src="js/jquery.js"></script>
25    <script src="js/test.js"></script>
26
27
28  </style>
29  <style>.embed-container {position: relative; padding-bottom: 80%; height: 0; max-width: 100%;}.embed-container iframe, .embed-container object, .embed-container iframe{position: absolute; top: 0; left: 0; width: 100%; height: 100%;}.small{position: absolute; z-index: 40; bottom: 0; margin-bottom: -15px;}</style>
30
31 </head>
32

```

Line 1, Column 1 Spaces: 2 PHP

F:\newProject\test.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

x server.php
x test.php
x map.php

server.php test.php map.php

```
<body>
    <a id="gotop" href="#"><i class="fas fa-chevron-up"></i></a>
    <div id="home" class="first-part">
        <div class="container">
            <div class="row justify-content-center">
                <div class="logo col-12 col-md-4">CSC</div>
                <nav class="col-12 col-md-8">
                    <ul>
                        <li><a id="a" class="active" href="index.php" data-scroll="home">Home</a></li>
                        <li><a href="#" data-scroll="about-us">About</a></li>
                        <?php if (( $_SESSION['type'] == 'premier')) : ?>
                            <li><a href="test.php" target="_blank" data-scroll="services">GIS</a></li>
                        <?php endif ??>
                        <li><a href="#" data-scroll="contact-us">Contact</a></li>
                        <?php if (isset($_SESSION['success'])) : ?>
                            <li><a href="index.php?logout='1'" data-scroll="contact-us">Logout</a></li>
                        <?php endif ??>
                    </ul>
                </nav>
            </div>
        <section>
            <div class="row">
                <div class="col-md-3">
                    <div class="overlay menu"></div>
                    <i class="fas fa-list ca"></i>
                    <span class="categ ">Categories</span>
                    <div class="custom-select build" >
                        <select name="buildings" class="buildings">
                            <option value="0">Select Building</option>
                            <option value="1">Hospital</option>
                            <option value="2">School</option>
                            <option value="3">University</option>
                            <option value="4">blocks</option>
                        </select>
                    </div>
                </div>
            </div>
        </section>
    </div>
```

Line 33, Column 7 Spaces: 2 PHP

F:\newProject\test.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

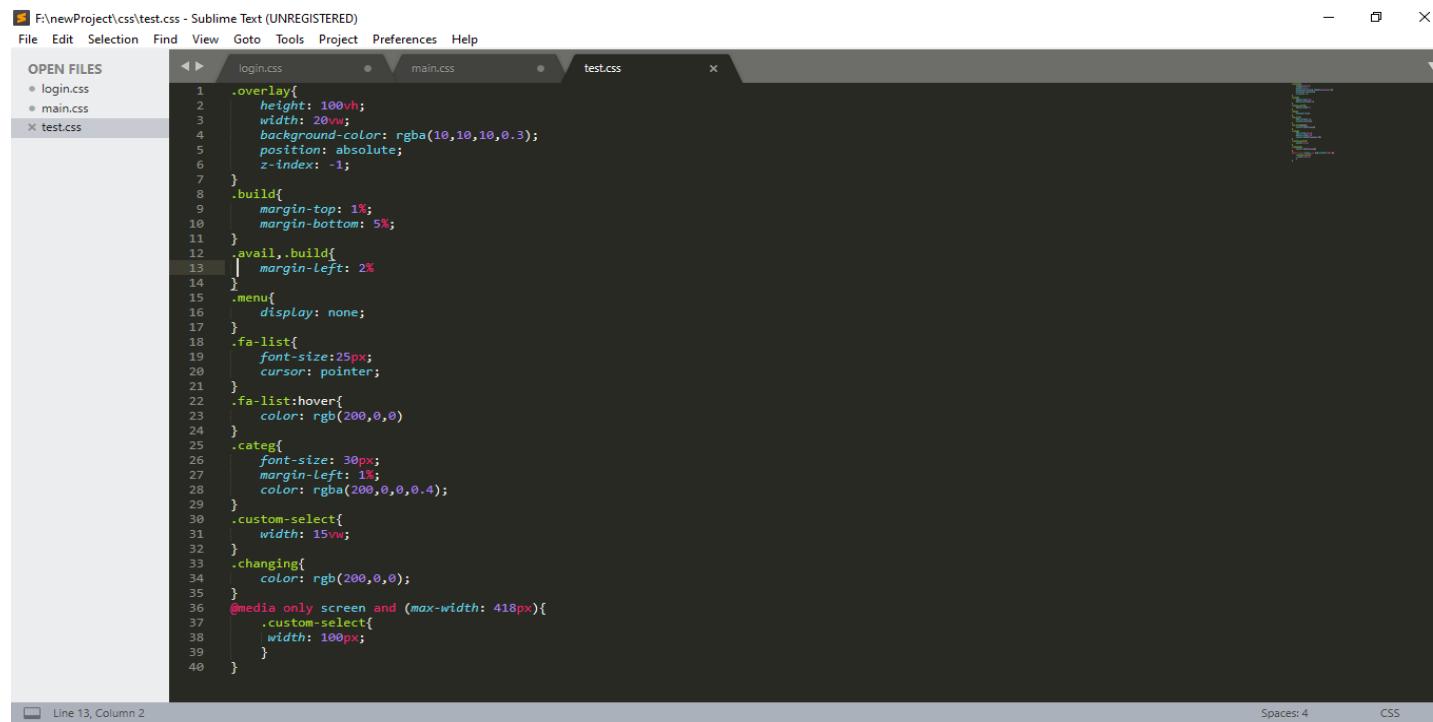
x server.php
x test.php
x map.php

server.php test.php map.php

```
</div>
<div class="custom-select avail" >
    <select name="availability" class="availability">
        <option value="0">Select availability</option>
        <option value="1">All</option>
        <option value="2">Available</option>
    </select>
</div>
<div class="col-md-9 map" >
    <div class="embed-container" >
        <small>
            <a href="//www.arcgis.com/apps/Embed/index.html?webmap=aaaf278a3b4d45c1934037e00ac4641d&extent=30.8572,29.8915,30.947,29.9322&home=true&zoom=true&scale=true&search=true&searchextent=true&details=true&legendlayers=true&active_panel=details&basemap_gallery=true&disable_scroll=true&theme=light" style="color:#0000FF;text-align:left" target="_blank">View larger map</a>
        </small><br>
        <iframe width="500" height="400" frameborder="0" scrolling="no" marginheight="0" marginwidth="0" title="Company" src="//www.arcgis.com/apps/Embed/index.html?webmap=aaaf278a3b4d45c1934037e00ac4641d&extent=30.8572,29.8915,30.947,29.9322&home=true&zoom=true&previewImage=false&scale=true&search=true&searchextent=true&details=true&legendlayers=true&active_panel=details&basemap_gallery=true&disable_scroll=true&theme=light">
        </iframe>
    </div>
</div>
</div>
</section>
</div>
</div>
</div>
<script>
</script>
</body>
</html>
```

Line 68, Column 21 Spaces: 2 PHP

2 .CSS Code:



F:\newProject\css\test.css - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

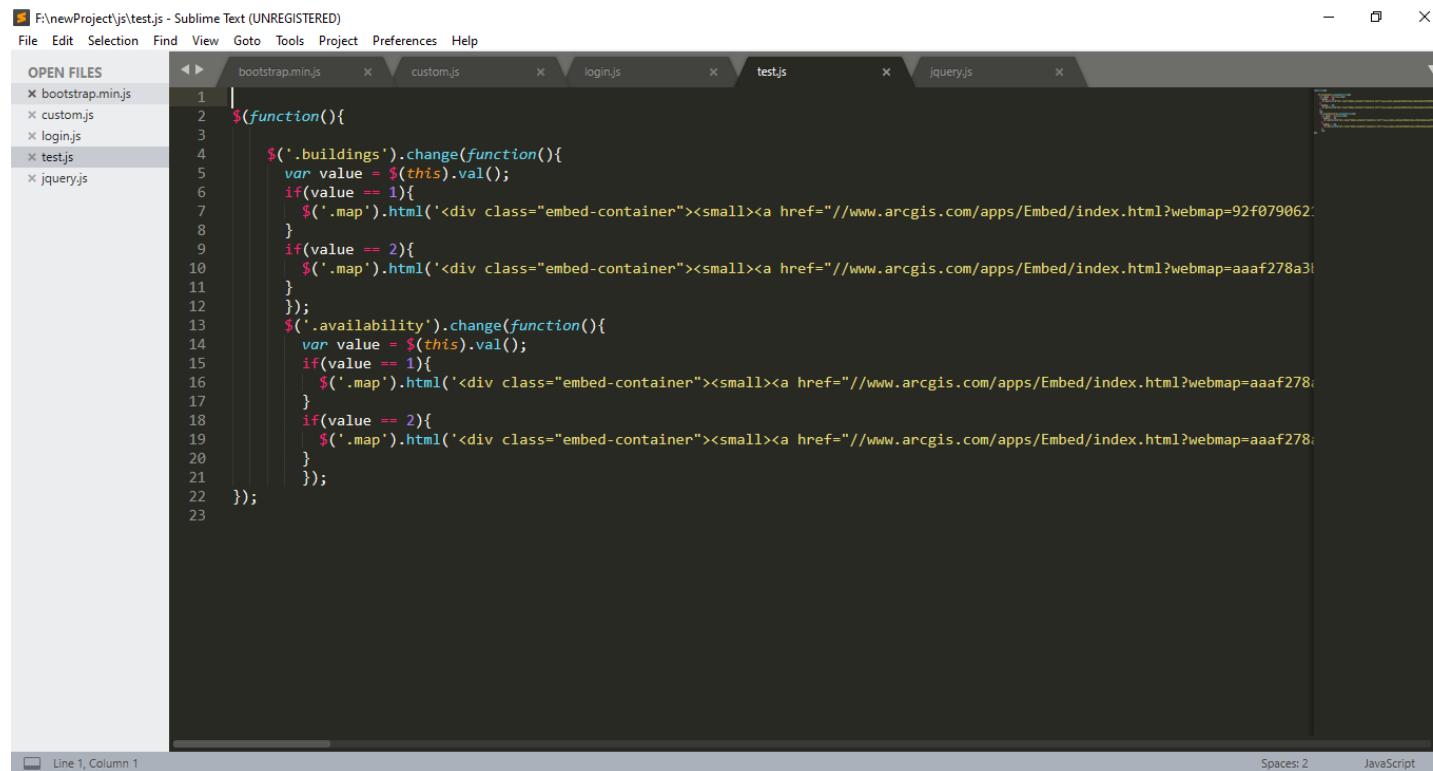
OPEN FILES

- login.css
- main.css
- test.css**

```
1 .overlay{
2     height: 100vh;
3     width: 20vw;
4     background-color: rgba(10,10,10,0.3);
5     position: absolute;
6     z-index: -1;
7 }
8 .build{
9     margin-top: 1%;
10    margin-bottom: 5%;
11 }
12 .avail,.build{
13     margin-left: 2%
14 }
15 .menu{
16     display: none;
17 }
18 .fa-list{
19     font-size: 25px;
20     cursor: pointer;
21 }
22 .fa-list:hover{
23     color: rgb(200,0,0)
24 }
25 .categ{
26     font-size: 30px;
27     margin-left: 15px;
28     color: rgba(200,0,0,0.4);
29 }
30 .custom-select{
31     width: 15vw;
32 }
33 .changing{
34     color: rgb(200,0,0);
35 }
36 @media only screen and (max-width: 418px){
37     .custom-select{
38         width: 100px;
39     }
40 }
```

Line 13, Column 2 Spaces: 4 CSS

3. JS Code:



F:\newProject\js\test.js - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

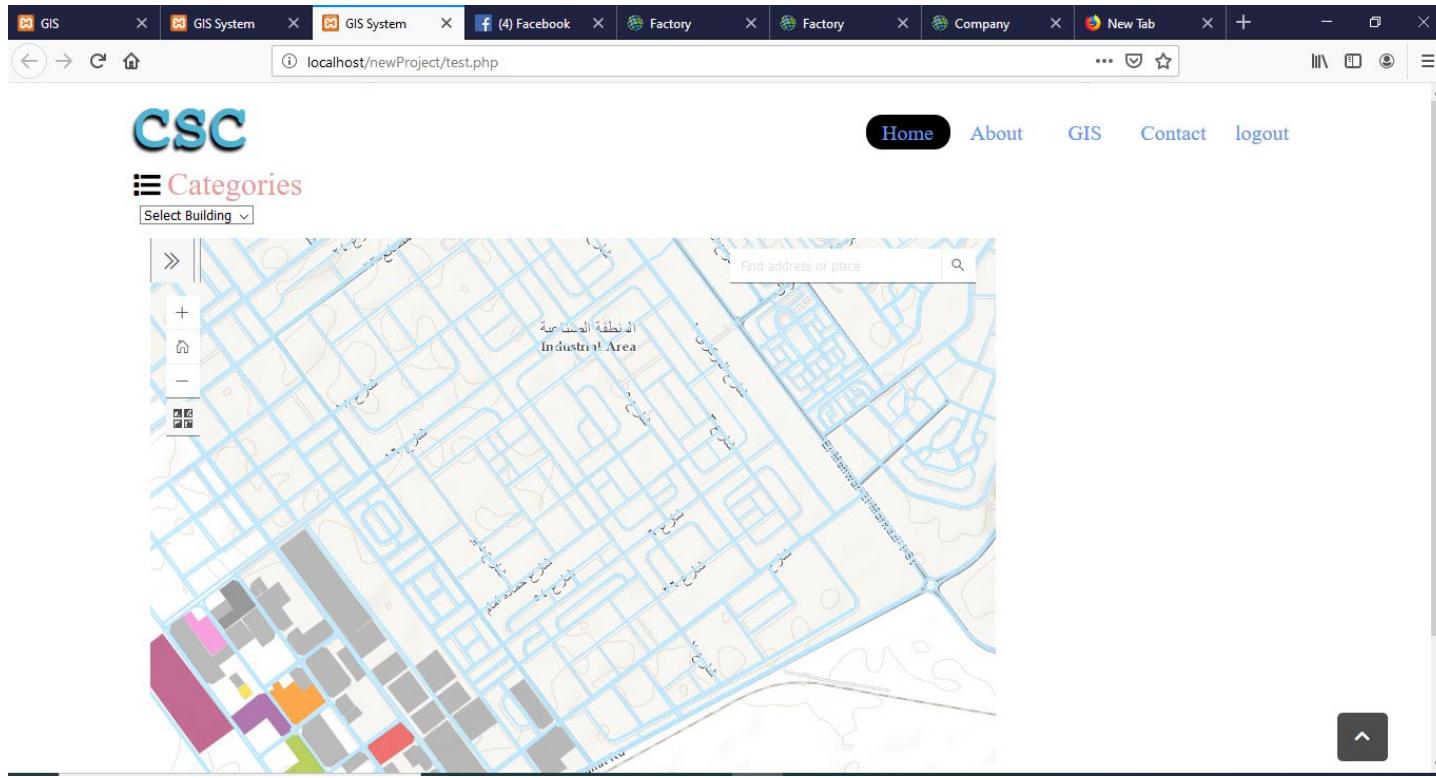
OPEN FILES

- bootstrap.min.js
- custom.js
- login.js
- test.js**
- jquery.js

```
1 $(function(){
2     $('.buildings').change(function(){
3         var value = $(this).val();
4         if(value == 1){
5             $('.map').html('<div class="embed-container"><small><a href="//www.arcgis.com/apps/Embed/index.html?webmap=92f079062">' );
6         }
7         if(value == 2){
8             $('.map').html('<div class="embed-container"><small><a href="//www.arcgis.com/apps/Embed/index.html?webmap=aaaf278a3">' );
9         }
10    });
11    $('.availability').change(function(){
12        var value = $(this).val();
13        if(value == 1){
14            $('.map').html('<div class="embed-container"><small><a href="//www.arcgis.com/apps/Embed/index.html?webmap=aaaf278a3">' );
15        }
16        if(value == 2){
17            $('.map').html('<div class="embed-container"><small><a href="//www.arcgis.com/apps/Embed/index.html?webmap=aaaf278a3">' );
18        }
19    });
20 });
21 });
22 });
23 );
```

Line 1, Column 1 Spaces: 2 JavaScript

The Previous Code Produces This Page:



Code PHP To Connect Front End to Database:

```
F:\newProject\server.php - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
OPEN FILES
server.php
server.php
1 <?php
2 session_start();
3
4 // initializing variables
5 $username = "";
6 $email = "";
7 $errors = array();
8
9 // connect to the database
10 $db = mysqli_connect('localhost', 'root', '', 'CSC');
11 //$_SESSION['type2'] = 'login';
12 //check login
13 if (isset($_SESSION['success'])) {
14     //$_SESSION[msg] = "You must log in first";
15     header('location: index.php');
16 }
17
18 // REGISTER USER
19 if (isset($_POST['reg_user'])) {
20
21     // receive all input values from the form
22     $username = mysqli_real_escape_string($db, $_POST['username']);
23     $email = mysqli_real_escape_string($db, $_POST['email']);
24     $password_1 = mysqli_real_escape_string($db, $_POST['password_1']);
25     $password_2 = mysqli_real_escape_string($db, $_POST['password_2']);
26     $type = $_POST['type'];
27
28     $_SESSION['username'] = $username;
29     $_SESSION['email'] = $email;
30
31
32     // form validation: ensure that the form is correctly filled ...
33     // by adding (array_push()) corresponding error into $errors array
34     if (empty($username)) { array_push($errors, "Username is required"); }
35     if (empty($email)) { array_push($errors, "Email is required"); }

```

F:\newProject\server.php - Sublime Text (UNREGISTERED)

```
OPEN FILES server.php
server.php
71     }
72 }
73
74 // LOGIN USER
75 if (isset($_POST['login_user'])) {
76     $username = mysqli_real_escape_string($db, $_POST['username']);
77     $password = mysqli_real_escape_string($db, $_POST['password']);
78
79     if (empty($username)) {
80         array_push($errors, "Username is required");
81     }
82     if (empty($password)) {
83         array_push($errors, "Password is required");
84     }
85
86     if (count($errors) == 0) {
87         $password = md5($password);
88         $query = "SELECT * FROM users WHERE name='$username' AND password='$password'";
89         $results = mysqli_query($db, $query);
90
91         if (!empty($results) && mysqli_num_rows($results) == 1) {
92
93             // output data of each row
94             while($row = $results->fetch_assoc()) {
95                 $type = $row['type'];
96
97                 $SESSION['username'] = $username;
98                 $SESSION['type'] = $type;
99                 $SESSION['success'] = "You are now logged in";
100                header('location: index.php');
101            }else {
102                array_push($errors, "Wrong username/password combination");
103                $SESSION['errors'] = $errors;
104                header('location: login.php');
105            }
106        }
107    }
108}
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```

The Previous Code Produces:

1. Connect to The Database

2.Check Login

3. User Must Login First

4.Receive All Input Values from The Form

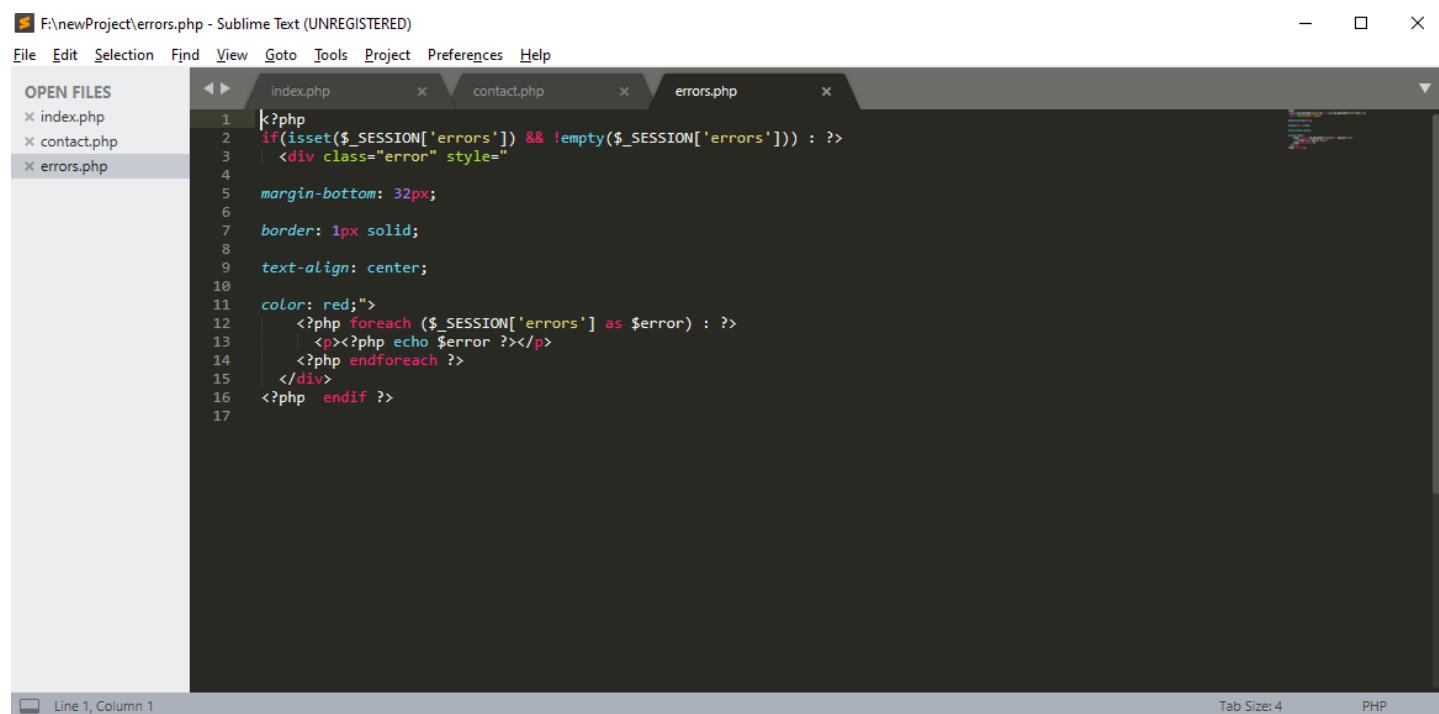
5.Form Validation: Ensure That the Form Is Correctly Filled

6.Check the Database to Make Sure a User Does not Already Exist with The Same Username and Email

7.Finally Register User If There Are No Errors in The Form

8.Encrypt the Password Before Saving in The Database

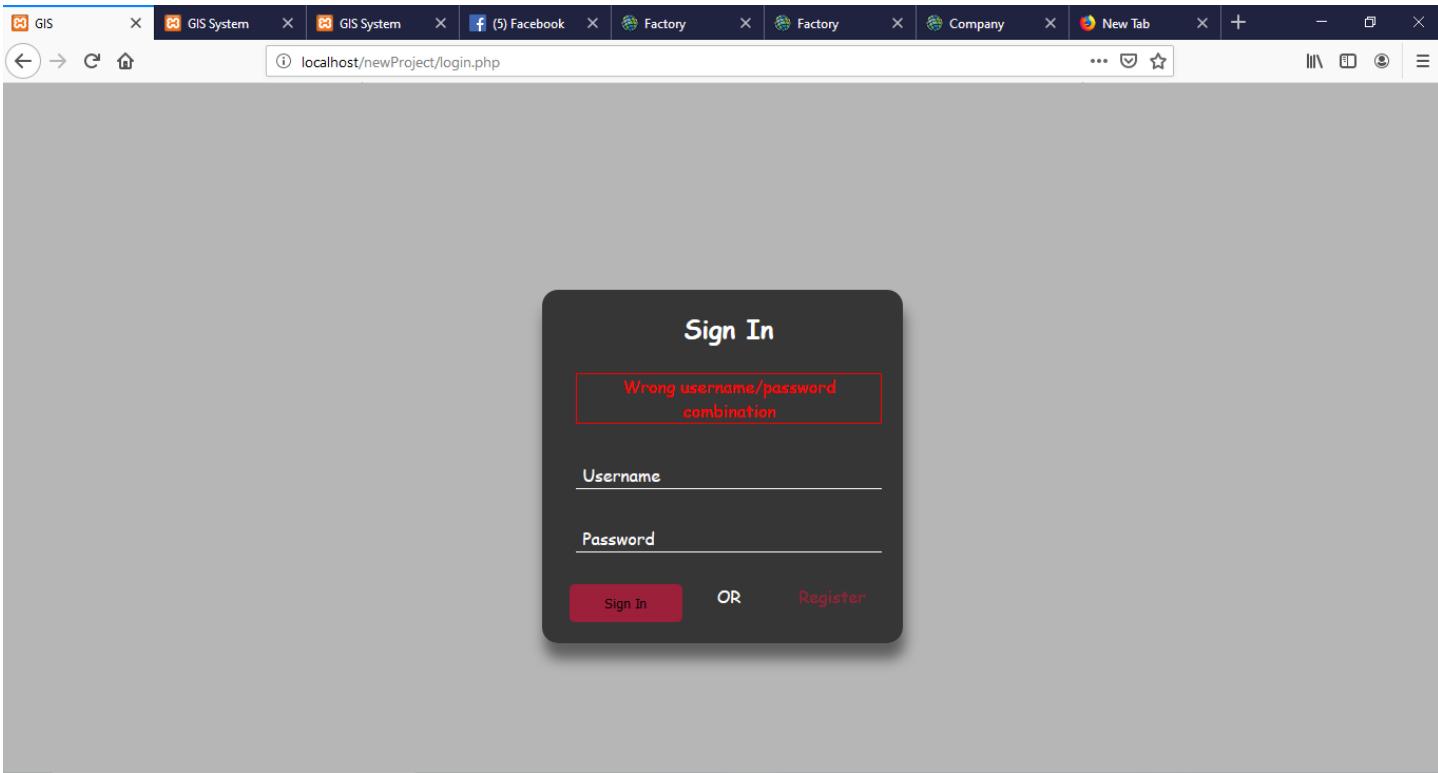
PHP Error Code:



A screenshot of the Sublime Text editor showing a file named 'errors.php'. The code displays a CSS block and a PHP loop to output session errors. The Sublime Text interface includes a menu bar, a tab bar with three tabs ('index.php', 'contact.php', 'errors.php'), and a status bar at the bottom.

```
<?php
if(isset($_SESSION['errors']) && !empty($_SESSION['errors'])) : ?>
<div class="error" style="margin-bottom: 32px; border: 1px solid; text-align: center; color: red;">
<?php foreach ($_SESSION['errors'] as $error) : ?>
<p><?php echo $error ?></p>
<?php endforeach ?>
</div>
<?php endif ?>
```

The Previous Code Produces This Page:



- Link of the project and the documentation on github

<https://github.com/BolaSamir/projectGIS.git>

Reference

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ملخص المشروع باللغة العربية

الهدف من المشروع هو انشاء موقع مبني على نظام المعلومات الجغرافية(جي اي اس) يساعد في حل العديد من المشكلات الخاصة بالتخطيط والادارة وتقديم الحلول بطريقة اكثر فاعلية وسهولة عن طريق تقديم البيانات للمنطقة المقترحة المراد تطويرها وتقديم مسح حول المساحات الخالية والمستخدمة وتمثيلها كبيانات مكانية وصفية في نظم المعلومات الجغرافية للعديد من المستفيدين والمستخدمين(حكومي-مستثمرين-افراد.....)

باستخدام العديد من الادوات مثل (ARC MAP)

بالإضافة الي تحديد متطلبات المستخدمين وذلك عن طريق تصميم ودمج الخرائط وانشاء قاعدة بيانات جغرافية لها تحتوي علي المعلومات المكانية والمساحة والمعلومات التي يحتاجها المستخدم من الموقع

وذلك سيوفر المزيد من الوقت و الجهد ويساعد علي تطوير واستصلاح المزيد من الاماكن المستهدفة من قبل الحكومة والمستثمرين

الموقع يتميز بسهوله الاستخدام من قبل المستخدمين حيث انه يحتوي على امكانيات عديده منها امكانية عرض الوحدات و الاراضي بالمساحات و امكانية التصفيه و اختيار ما يناسب المستخدم او ما يبحث عنه ، حيث انه تم تقسيم الوحدات و الاراضي لتحديد ما يصلح لاستخدام قطعة الارض .

الموقع يعتمد علي نظم المعلومات الجغرافية يقوم بعرض الاراضي بعرض تسويقها لصالح هيئه المجتمعات العمرانيه في المستقبل مع اضافه خاصيه الحجز الالكتروني