



Software Testing Types

Purpose of this Document

The main purpose of this document is to perform different types of Testing on Code Informatics website along with screenshots.

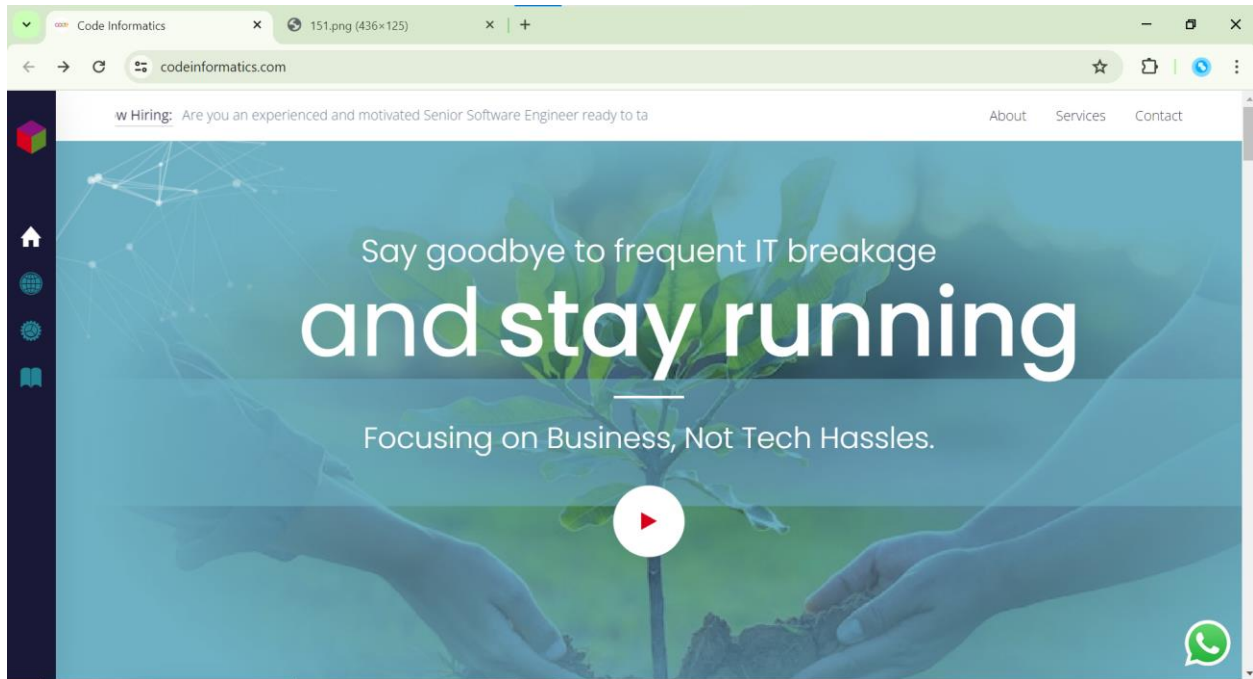
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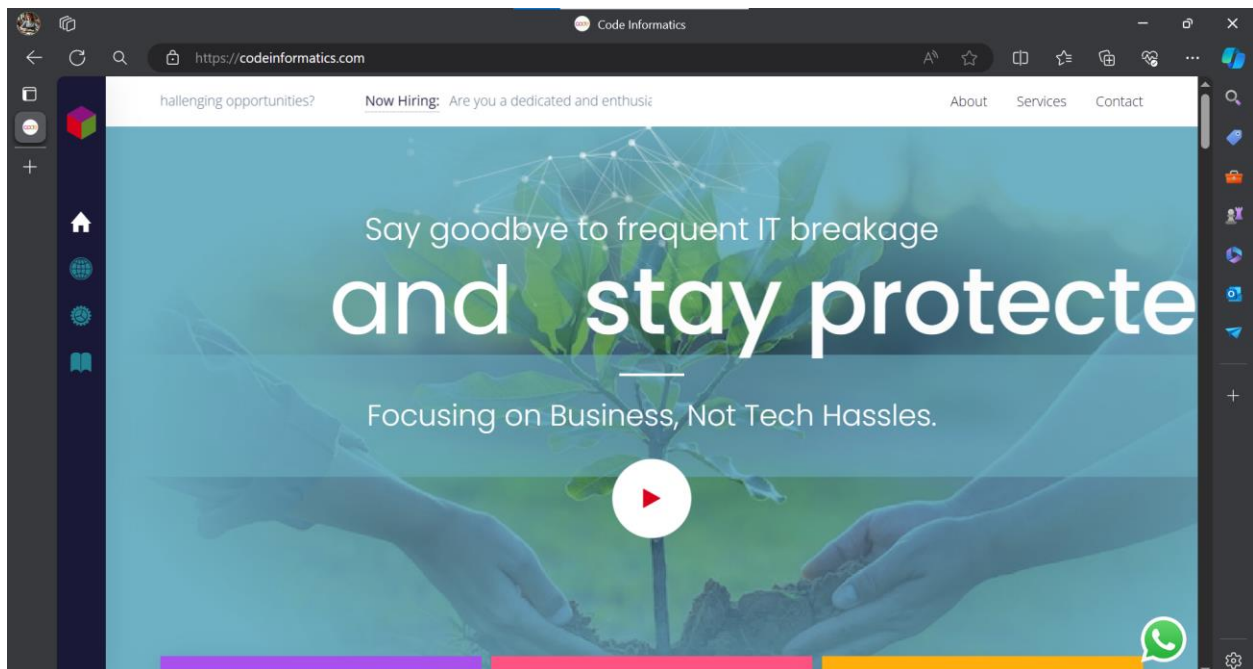
Cross Browser Testing:

For seeing, how our website shows on different browsers. We prefer Google Chrome & Microsoft Edge.

Google Chrome:

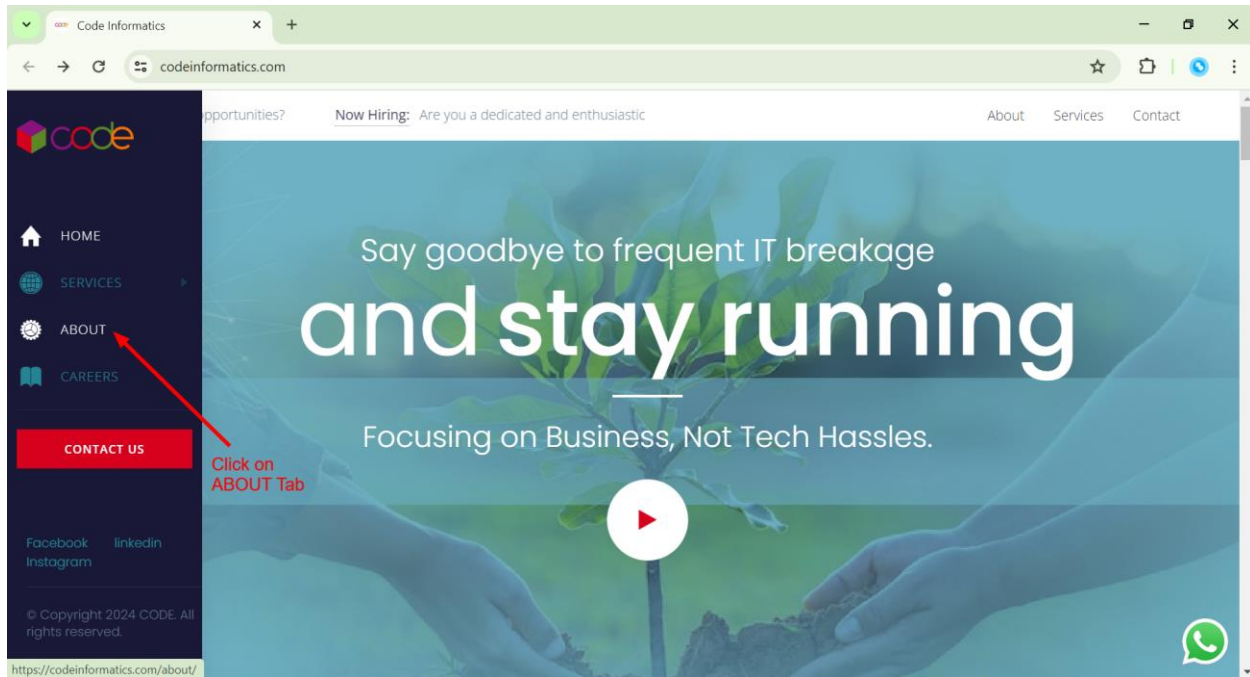


Microsoft Edge:

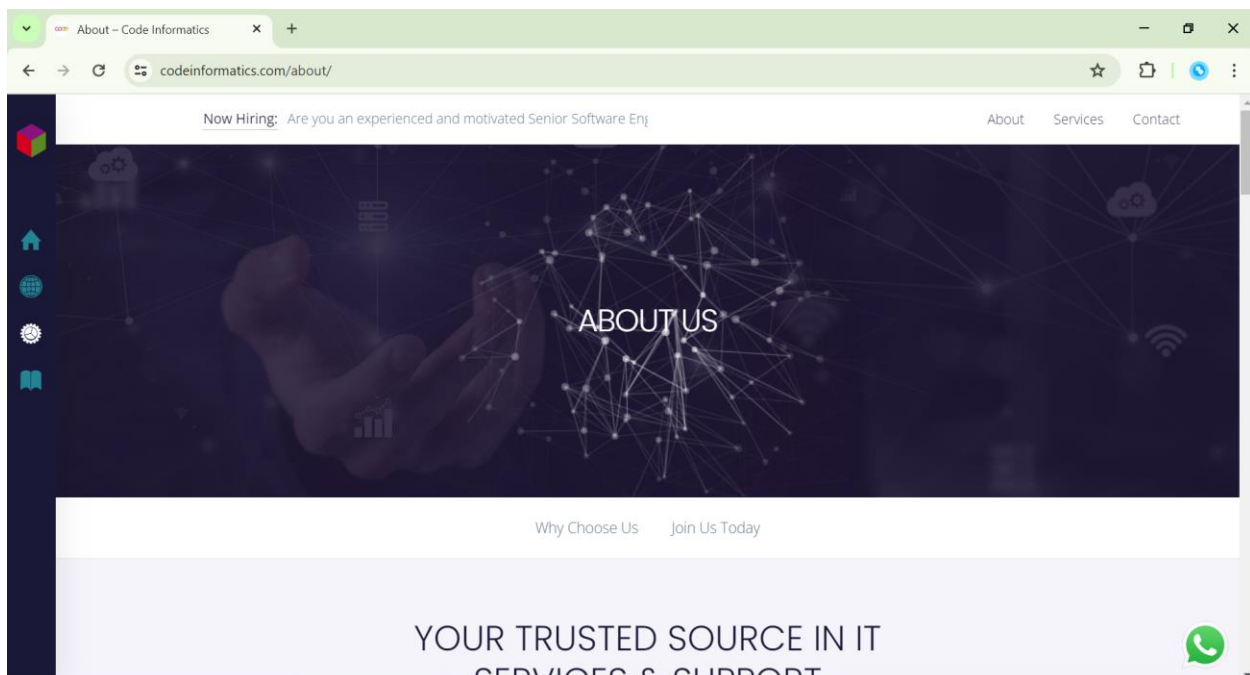


Black Box Testing:

In Black Box Testing, we will test our website without going to en-detail that we got from SRS (Software Requirement Specification) document. We just check functionality of modulus without knowing logic behind the feature.

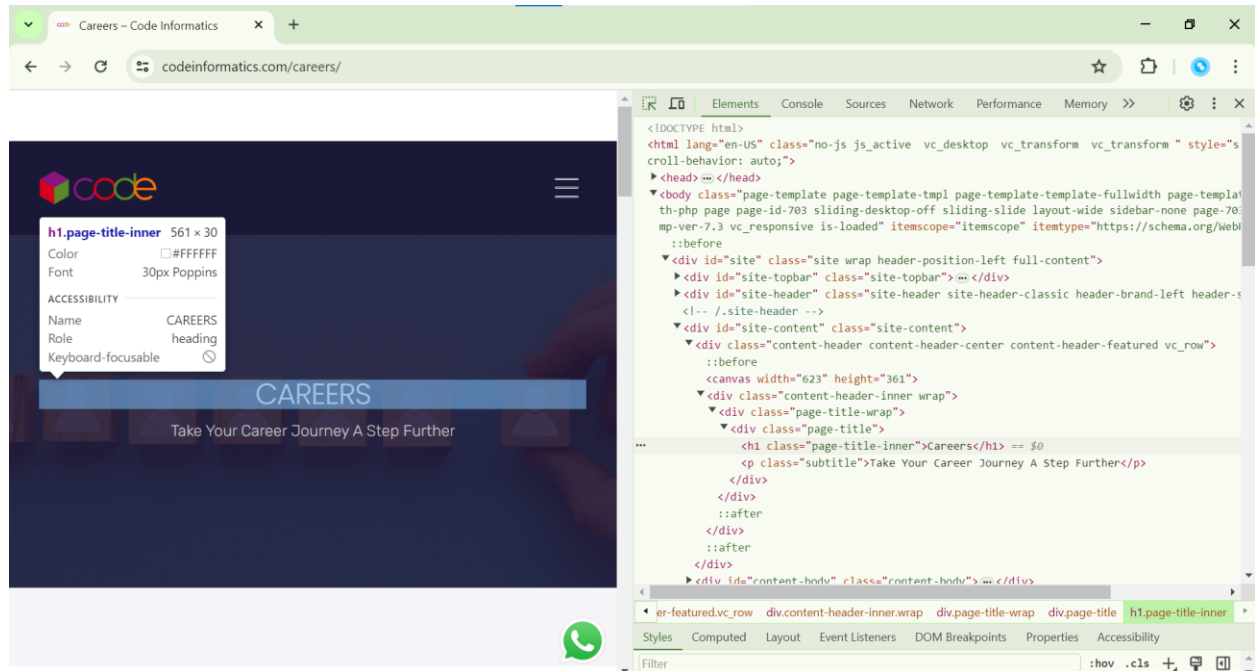


After Clicking on the ABOUT Tab, we are directed to the ABOUT Page. It means Functionality is working according to our requirements.



White Box Testing:

In White Box Testing, we must have knowledge of code that will help us for understanding logic of code. Because in this type of testing, we go through from internal logic of code of our website.



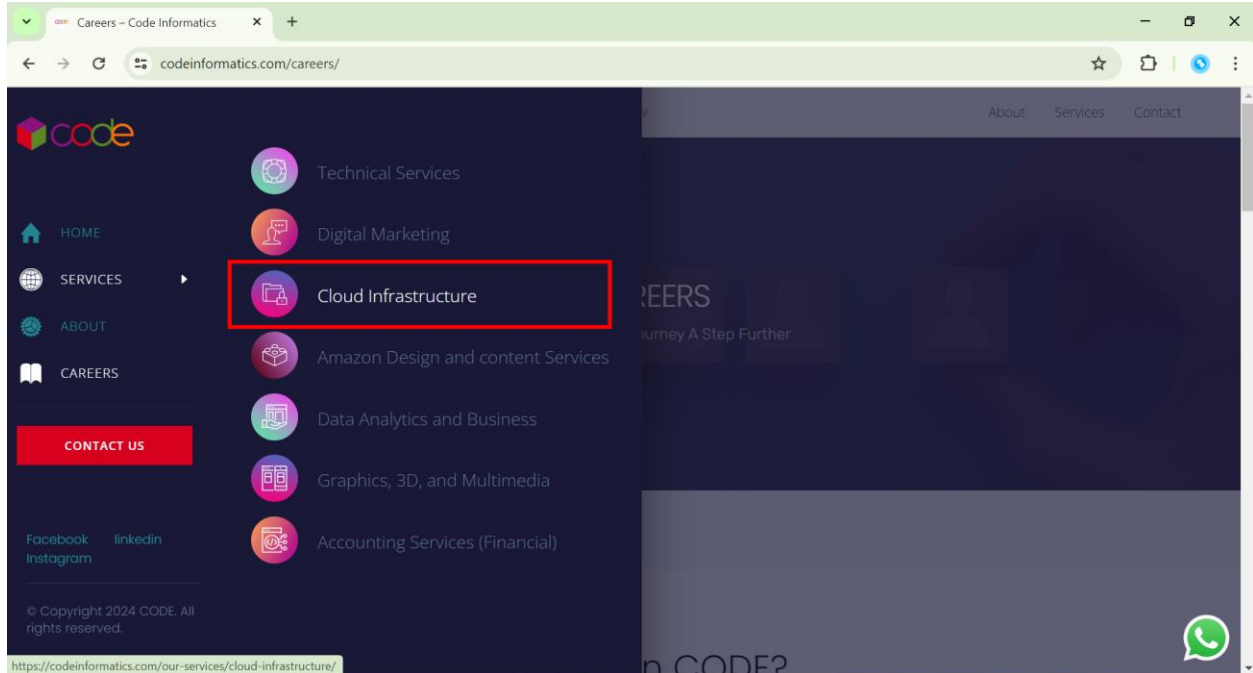
Here we are checking the code behind the Careers page (First Container) of the Code Informatics Website.

Integration Testing:

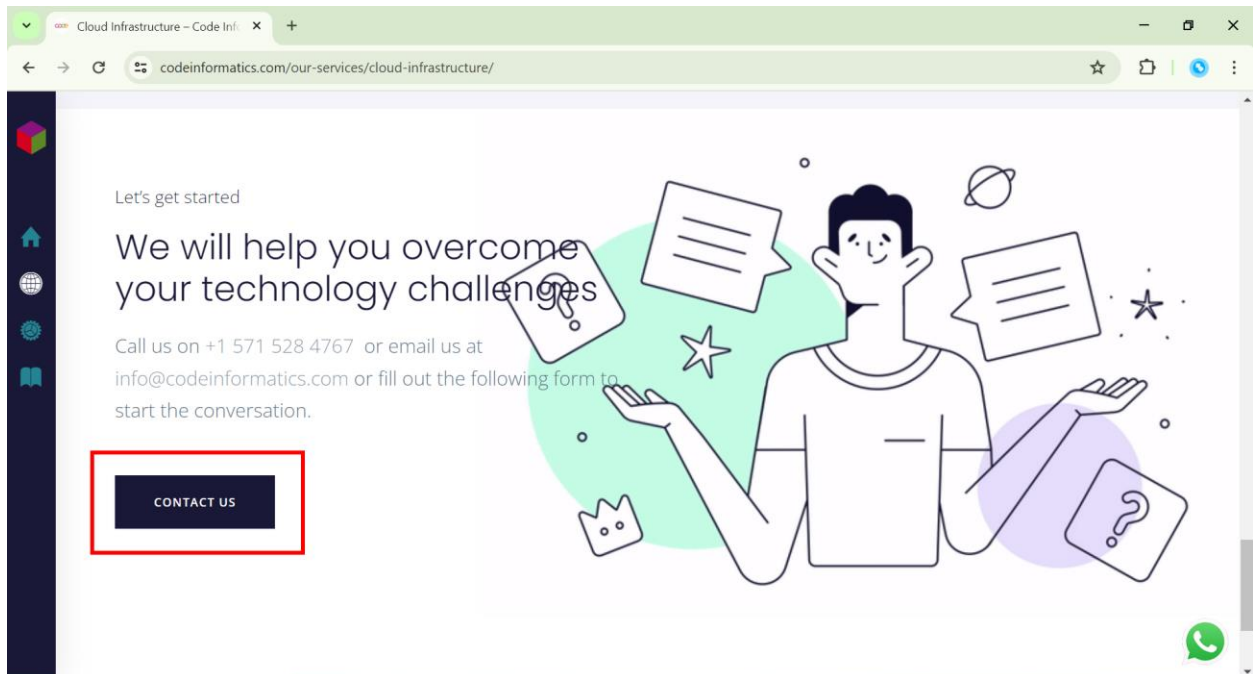
In Integration Testing, we test the combined functionality of the newly integrated module with the previous modules.

As we first have a module of Services, that featuring all the services we are providing. One of the services is Cloud Infrastructure which we want to check.

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Then, there is button that have another module/functionality is added on Cloud Infrastructure page that is Contact Us. Now we will test whether this feature is performing accordingly SRS (Software Requirement Specification) or not.



When we click on the Contact Us Button we directed to the Contact Us page, which means the combined functionality of both modules are working fine.

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periened and motivated Senior Software Engineer ready to take on challenging oppor

About Services Contact

CONTACT US

We'd love to discuss how we can help you streamline your business with the Code Informatics Managed Service Suite. Contact us for a no-obligation conversation. A member of our team will get in touch with you within a few business hours.

Full name *

e.g., John Doe

Organization *

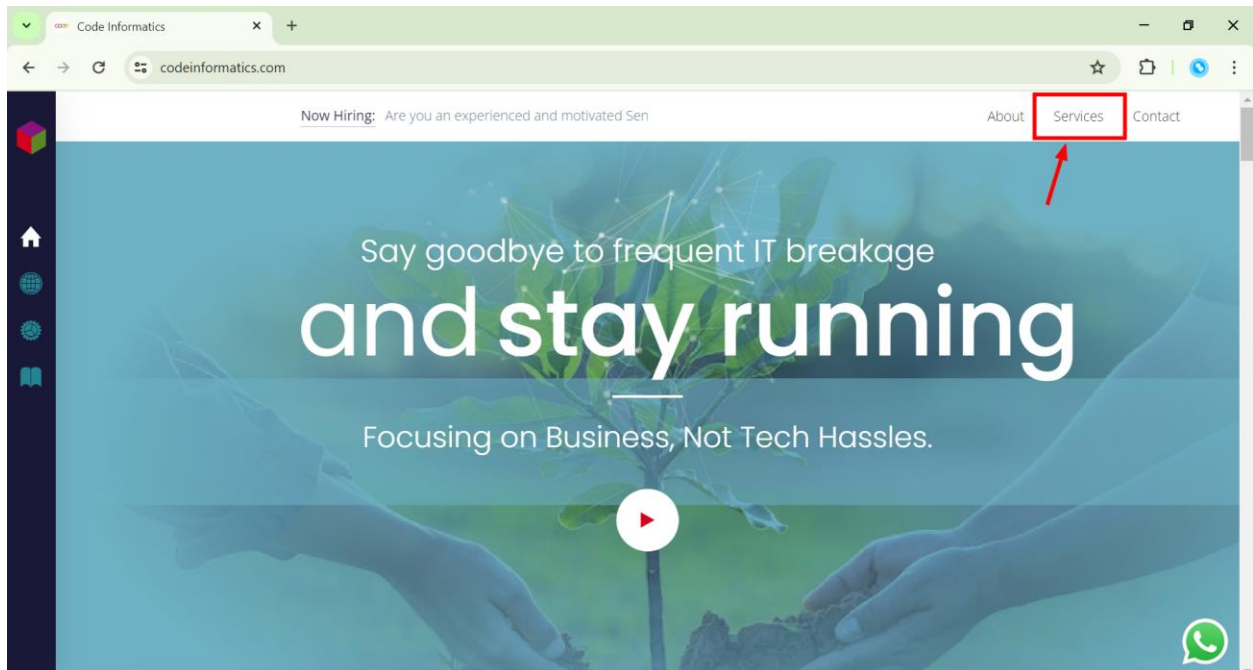
Company Name

Work email address *

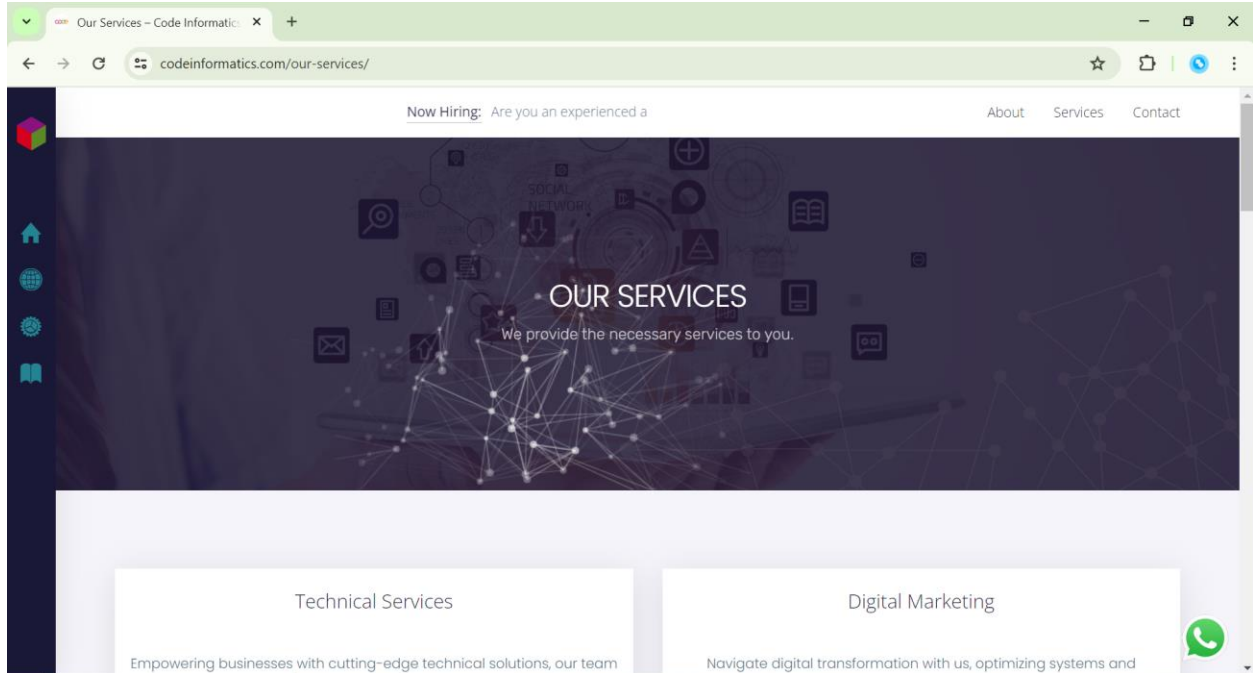
Phone number

Functional Testing:

In Functional Testing, we will simply verify/check all the functionalities/features of our website against SRS.



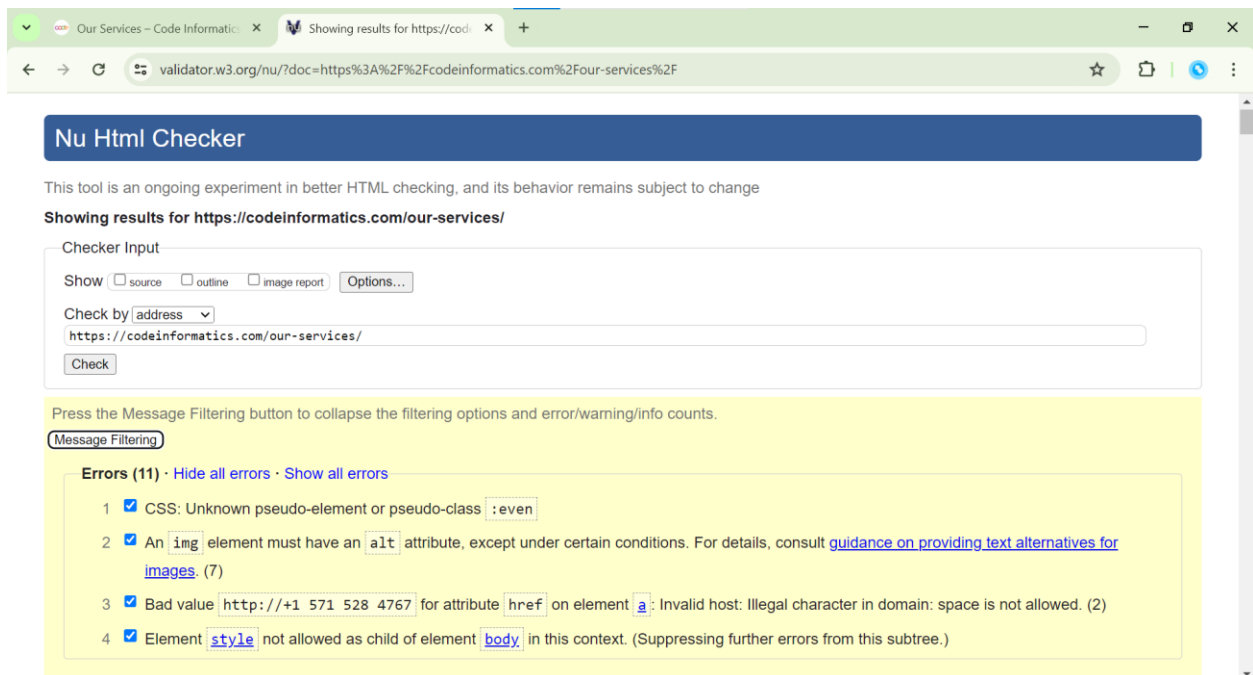
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W3C Validation:

During W3C Validation, the website URL is entered into the W3C website, which serves as a semi-automated testing tool for identifying bugs in the Code Informatics website.

We found 11 errors from W3C Validation of Services page of Code Informatics.

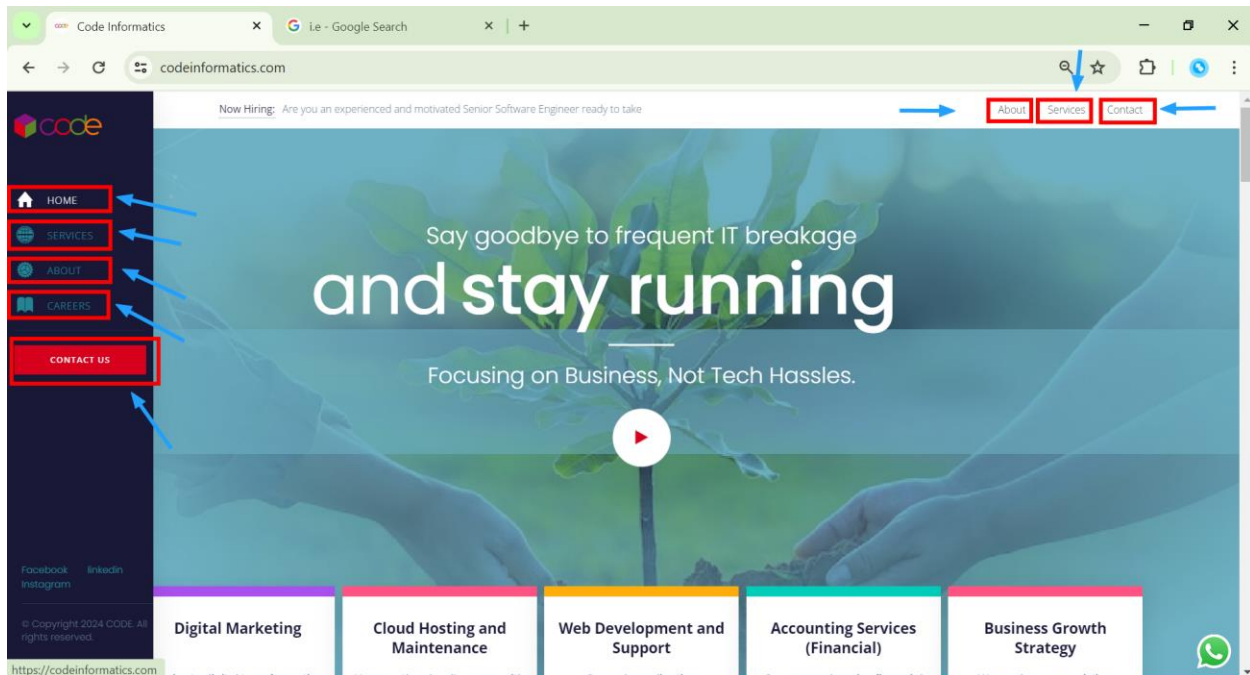


System Testing:

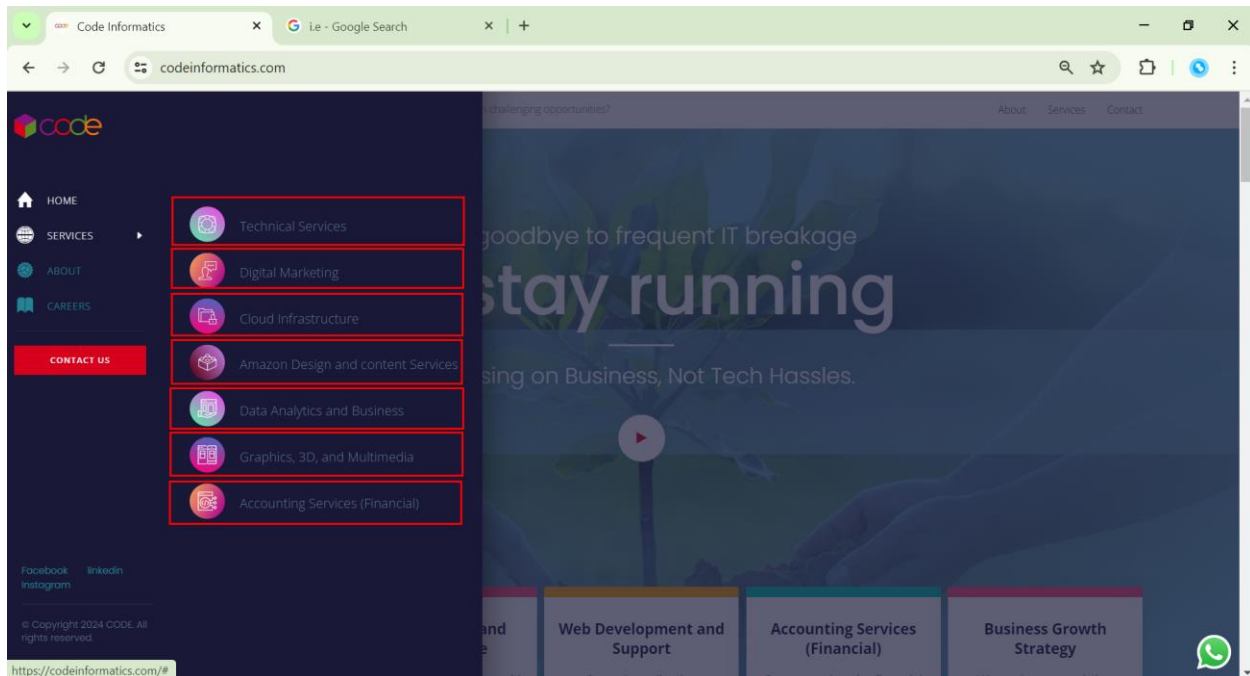
All the system's functionality has been thoroughly tested according to the specified requirements. However, it's essential to narrow the focus to a single domain—whether it's your any product (i.e. website, mobile app, or hardware).

The entire modules of Code Informatics will be tested.

1. Home
2. Services
 - a. Technical Services
 - b. Digital Marketing
 - c. Cloud Infrastructure
 - d. Amazon design & Content services
 - e. Data Analytics & Business
 - f. Graphics, 3D and Multimedia
 - g. Accounting Services (Financials)
3. About
4. Careers
5. Contact Us



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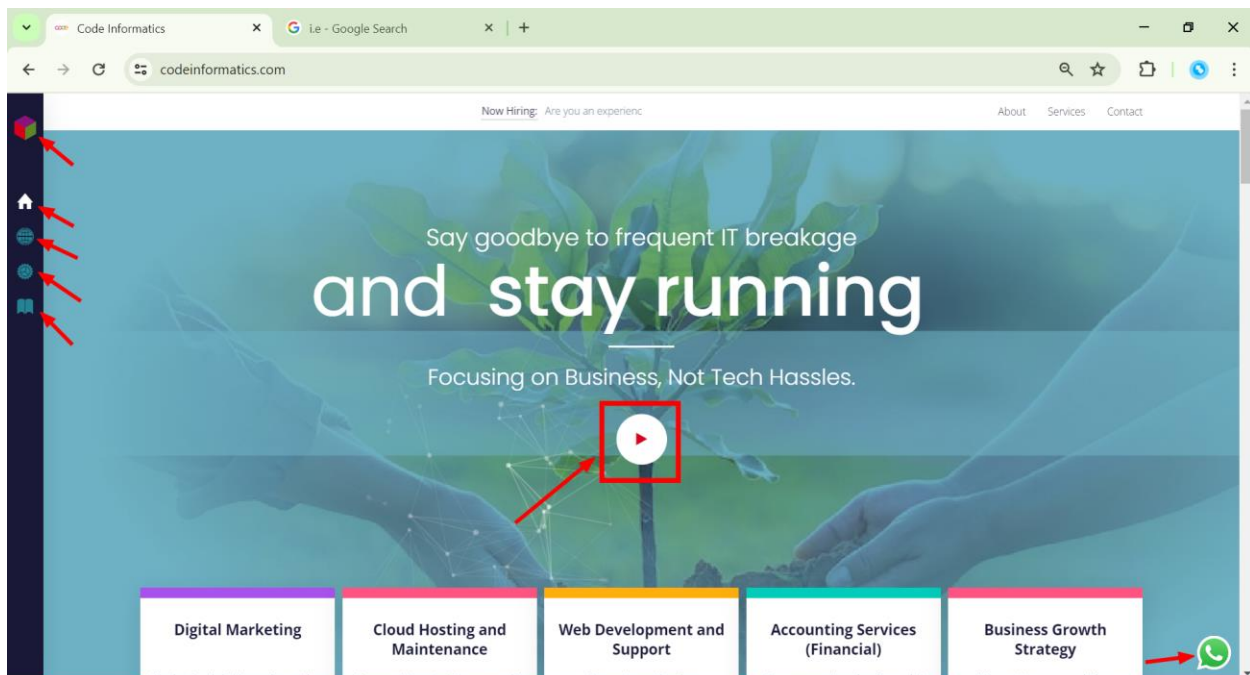


Usability Testing:

In Usability Testing, we check User Friendliness.

Mainly focus on grabbing customer/user attention. So, try to give smooth experience

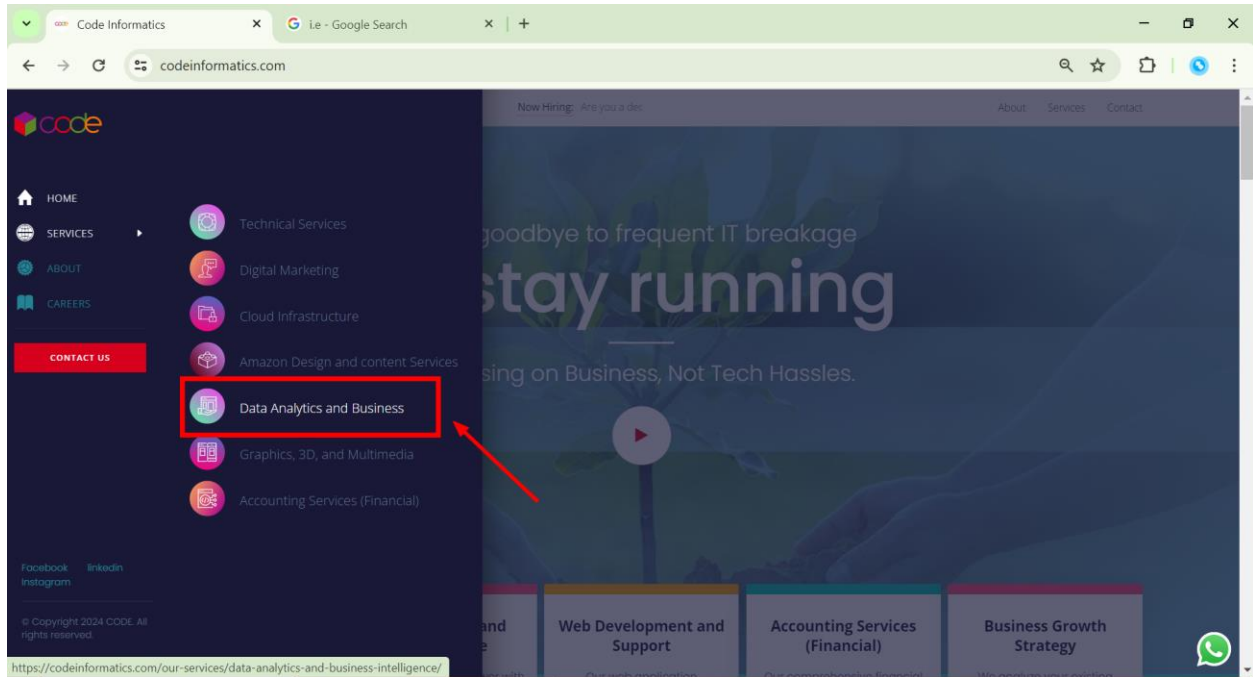
In this Website, Icons are graphical representation that help customer/user to understand things.



Regression Testing:

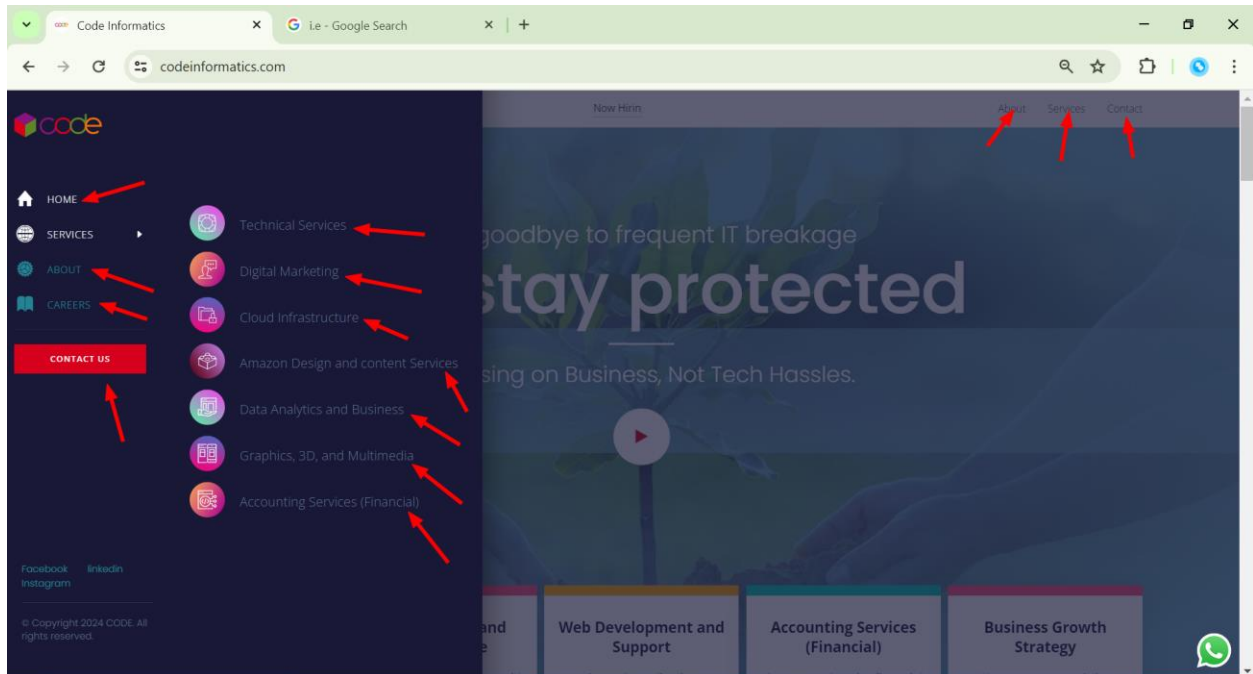
In Regression Testing, when we add a new Module/Functionality we have to test the complete modules from the start to end for checking the newly added functionality has affected the other modules or not.

Suppose, we have added a new Module in Services. Now, we have to test that either this module/feature affect other modules or not.



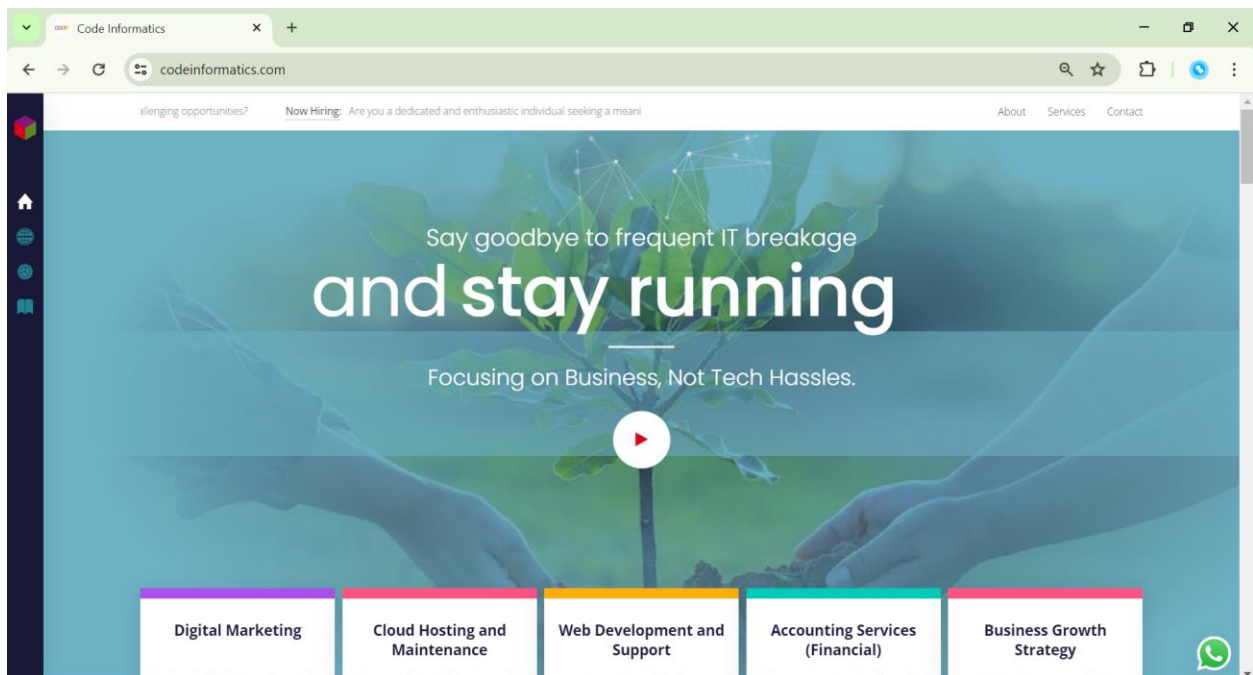
We will test all modules one by one. For verify, are they working correctly according to SRS (Software Requirement Specification) document?

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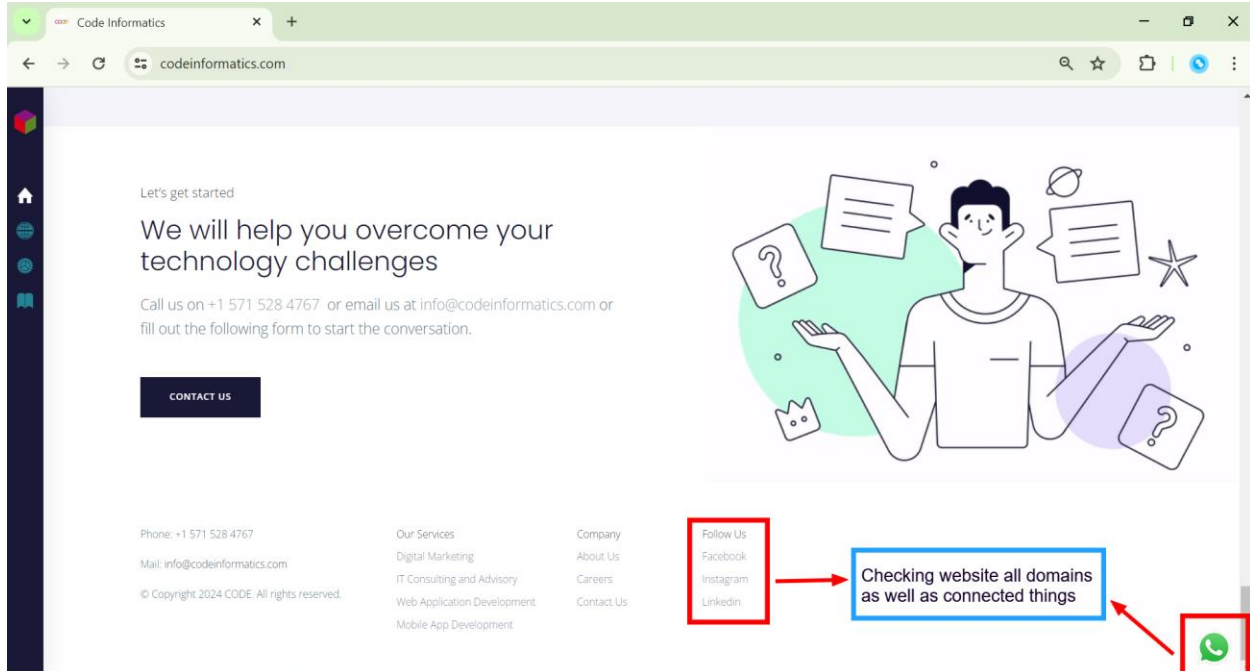


End-to-End Testing:

End-to-end testing is a software testing technique that evaluates the entire application workflow from start to finish. It simulates real-world user scenarios, ensuring that all components work together seamlessly and deliver the expected output as a unified entity.



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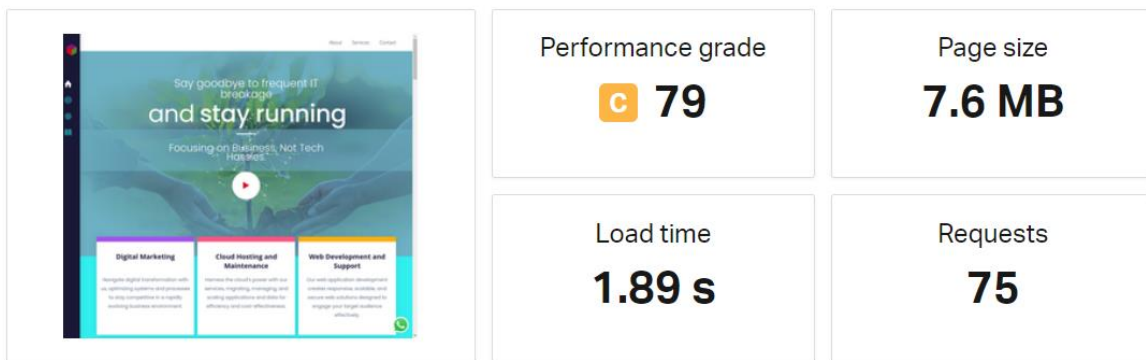


Performance Testing:

Performance testing evaluates how well a system performs under specific conditions. It checks things like loading speed, efficiency, and response time. We use a free tool for knowing loading time of Code Informatics Website.

<https://tools.pingdom.com/>

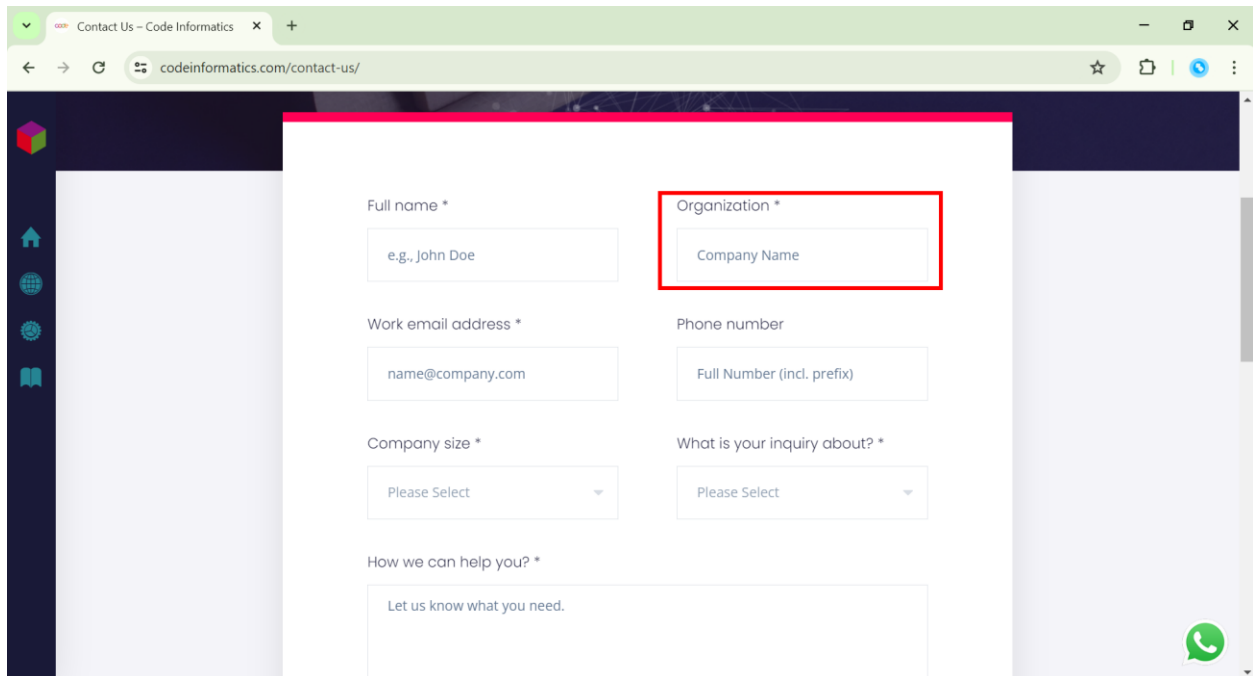
Here is the result screenshot.



Stress Testing:

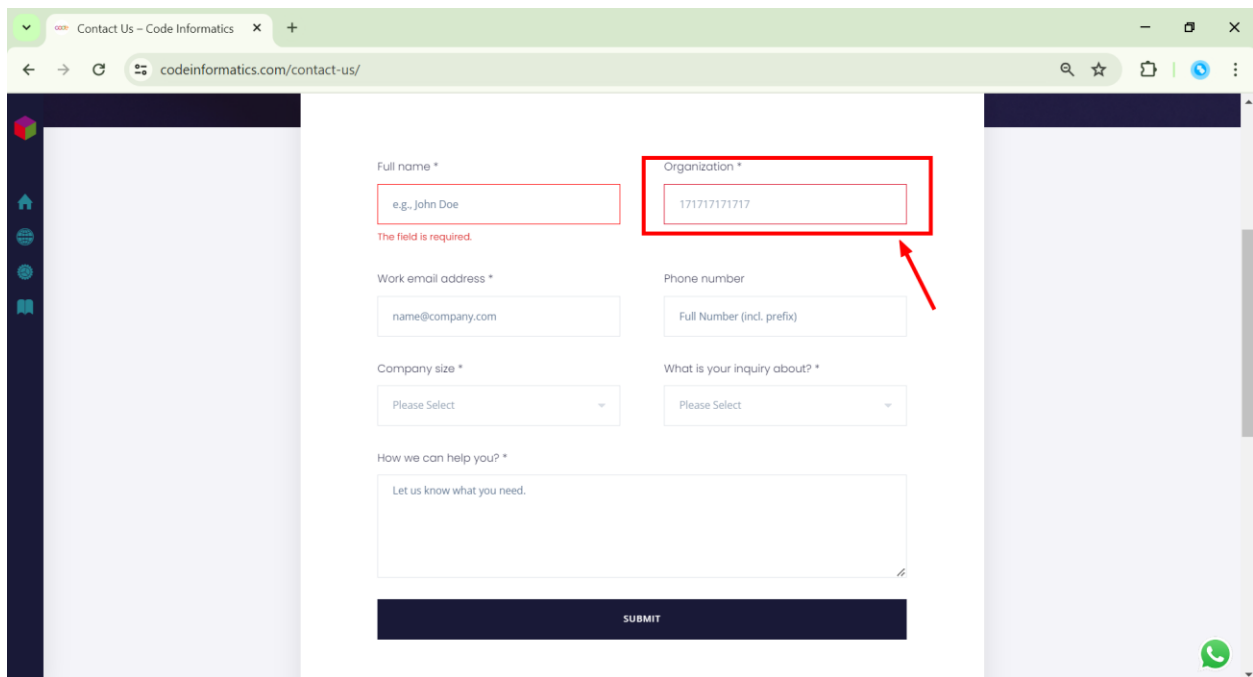
In stress testing, the system is intentionally pushed beyond its specified limits to determine when and how it fails. Essentially, negative testing is performed to assess how the system handles unfavorable conditions. For our website, we will specifically test the 'Contact Us' page by providing inputs that are considered unfavorable.

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A screenshot of a web browser showing the 'Contact Us' page of Code Informatics. The browser's address bar displays 'codeinformatics.com/contact-us/'. The page features a dark blue sidebar with navigation icons. The main content area contains a contact form with the following fields: 'Full name *' (with placeholder 'e.g., John Doe'), 'Organization *' (with placeholder 'Company Name'), 'Work email address *' (with placeholder 'name@company.com'), 'Phone number' (with placeholder 'Full Number (incl. prefix)'), 'Company size *' (a dropdown menu with 'Please Select'), 'What is your inquiry about? *' (a dropdown menu with 'Please Select'), and 'How we can help you? *' (a text area with placeholder 'Let us know what you need.'). The 'Organization *' field is highlighted with a red rectangular border. A green WhatsApp icon is visible in the bottom right corner of the page.

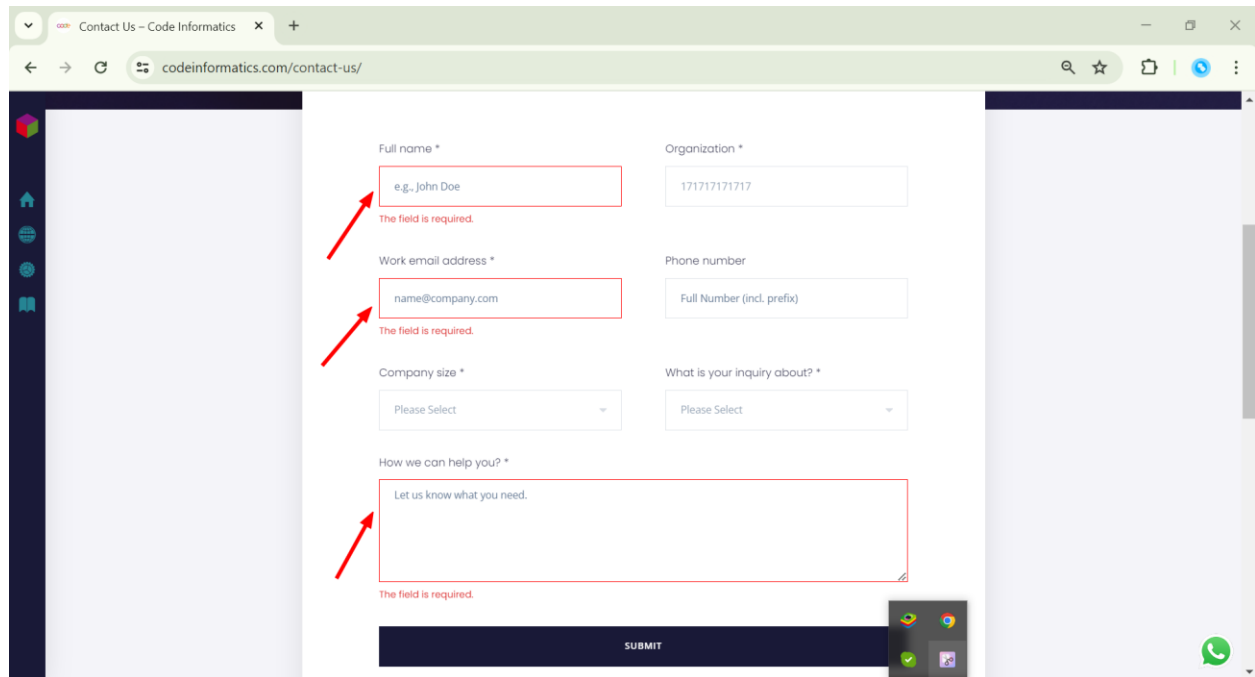
Here, we put number's instead of Organization name & leave all other fields blank.



A screenshot of the same 'Contact Us' page, but now the 'Organization *' field contains the number '17171717171717'. A red rectangular border highlights this field, and a red arrow points to it from the right. The 'Full name *' field now contains 'e.g., John Doe' and has a red border with the error message 'The field is required.' below it. The 'Work email address *' field contains 'name@company.com'. The 'Phone number' field contains 'Full Number (incl. prefix)'. The 'Company size *' and 'What is your inquiry about? *' dropdown menus are still set to 'Please Select'. The 'How we can help you? *' text area is empty. A dark blue 'SUBMIT' button is at the bottom of the form. The green WhatsApp icon remains in the bottom right corner.

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After click on Submit button.



The screenshot shows a web browser window with the URL 'codeinformatix.com/contact-us/'. The page displays a contact form with several fields, each marked with a red border and the message 'The field is required.' below it. Red arrows point to the 'Full name *', 'Work email address *', and 'How we can help you? *' fields. The 'Full name *' field contains 'e.g., John Doe'. The 'Work email address *' field contains 'name@company.com'. The 'Organization *' field contains '1717171717'. The 'Phone number' field is empty. The 'Company size *' and 'What is your inquiry about? *' fields are dropdown menus with 'Please Select' as the current selection. The 'How we can help you? *' field is a large text area with the placeholder text 'Let us know what you need.' A 'SUBMIT' button is visible at the bottom of the form. The browser's address bar shows 'codeinformatix.com/contact-us/' and the page title is 'Contact Us - Code Informatix'.

Load Testing:

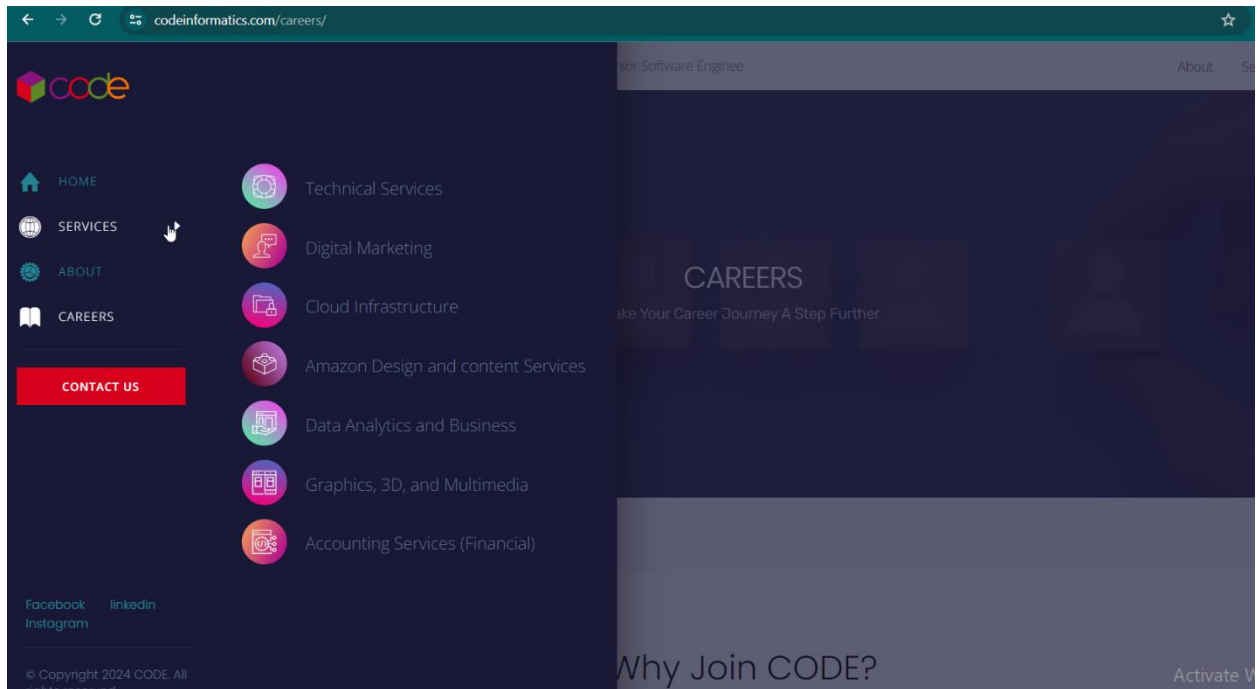
In simple terms, **load testing** checks how well a software system or application handles different levels of user activity. It helps ensure that the system can handle both normal usage and peak loads without crashing or slowing down.

Sanity Testing:

Sanity Testing helps us determine if a new version of the system is stable enough for further testing. It ensures that there are no critical bugs that could crash the application and prevent further testing.

For example, we add a new module in our services and now we have to test our website. After release of new build of our website. We will do testing for ensuring. Are all basic/necessary modules/functionalities working or not? If any module/function not working according to SRS document. We will not move further.

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Other Types of Software Testing:

There are some other types of Software Testing which is not done by the SQA team. Those are following blow.

- Unit Testing
- UAT (User Acceptance Testing)

Conclusion:

Here we discuss only major testing types. There are more testing types that use for different purposes. Smoke Testing, Ad-Hoc Testing, Exploratory Testing, Monkey Testing, Security Testing, and Gray Box Testing.