

# Automate the Boring Stuff with Selenium and Node.js: A Comprehensive Guide

In today's fast-paced digital world, repetitive tasks can bog down our productivity. But what if there was a way to automate these tasks, freeing up our time for more valuable pursuits?



## Automatic Operation of Browser using Selenium and Node.js

★★★★★ 5 out of 5

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Screen Reader : Supported  
Enhanced typesetting: Enabled  
Print length : 388 pages  
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Enter Selenium and Node.js, a powerful combination that enables you to automate web browsing operations with ease. This comprehensive guide will provide you with everything you need to know to harness their potential for seamless web automation.

## Chapter 1: Getting Started

### Installing Selenium and Node.js



# Selenium with JavaScript : Getting Started with Automation Testing

 BrowserStack

Follow step-by-step instructions to install Selenium WebDriver and Node.js.

## **Configuring Your Development Environment**



Learn how to set up your development environment to work effectively with Selenium and Node.js.

## **Chapter 2: Interacting with Web Elements**

### **Locating Elements on a Web Page**



Discover the various techniques for finding specific elements on a web page, such as by ID, class name, or XPath.

## Interacting with Elements

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```
var driver = new webdriver.Builder().forBrowser("firefox").build();
```

```
① driver.get("http://localhost/wordpress/wp-login.php");
```

```
② driver.findElement(By.id("user_login")).sendKeys("admin");
```

```
③ driver.findElement(By.id("user_pass")).sendKeys("admin123");
```



① Open page

② Enter user name

③ Enter password

kenapa

Automatic operation is performed on the following sites using Selenium WebDriver

1. Demo site (Button, Link, Text box etc)
2. EC site (WordPress + WooCommerce)

These sites are built on virtual machine on PC so we can practice Selenium as much as we want

Finally we execute automated testing with test framework

Explore methods for interacting with elements, including clicking buttons, entering text into fields, and selecting options from drop-down lists.

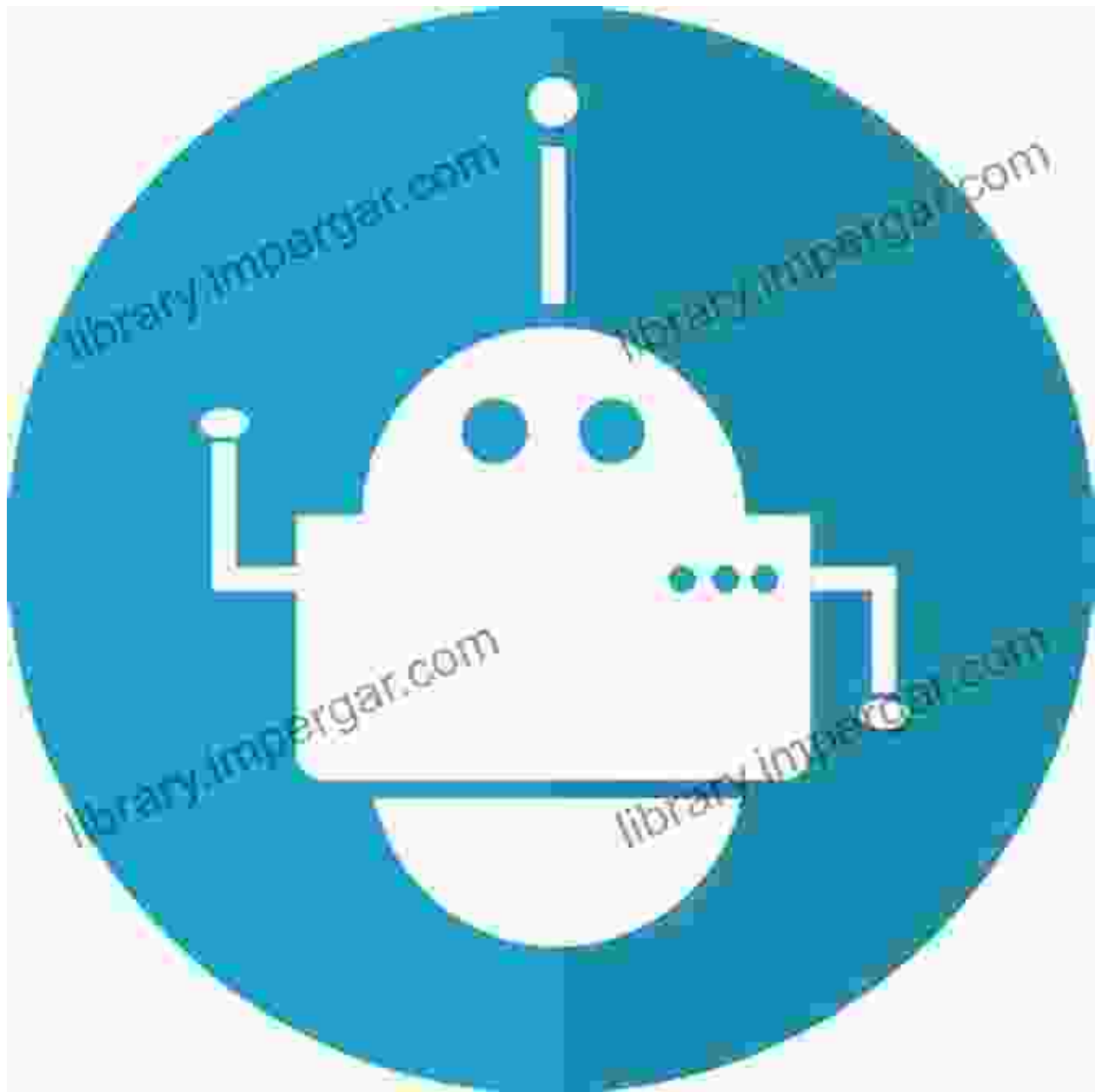
## Chapter 3: Headless Browsing and Automation

### Understanding Headless Browsing



Learn about headless browsing, a powerful technique for automating browser operations without the need for a visible graphical interface.

## **Automating with Headless Browsers**



Discover how to use headless browsers for tasks such as web scraping, testing, and simulating user behavior.

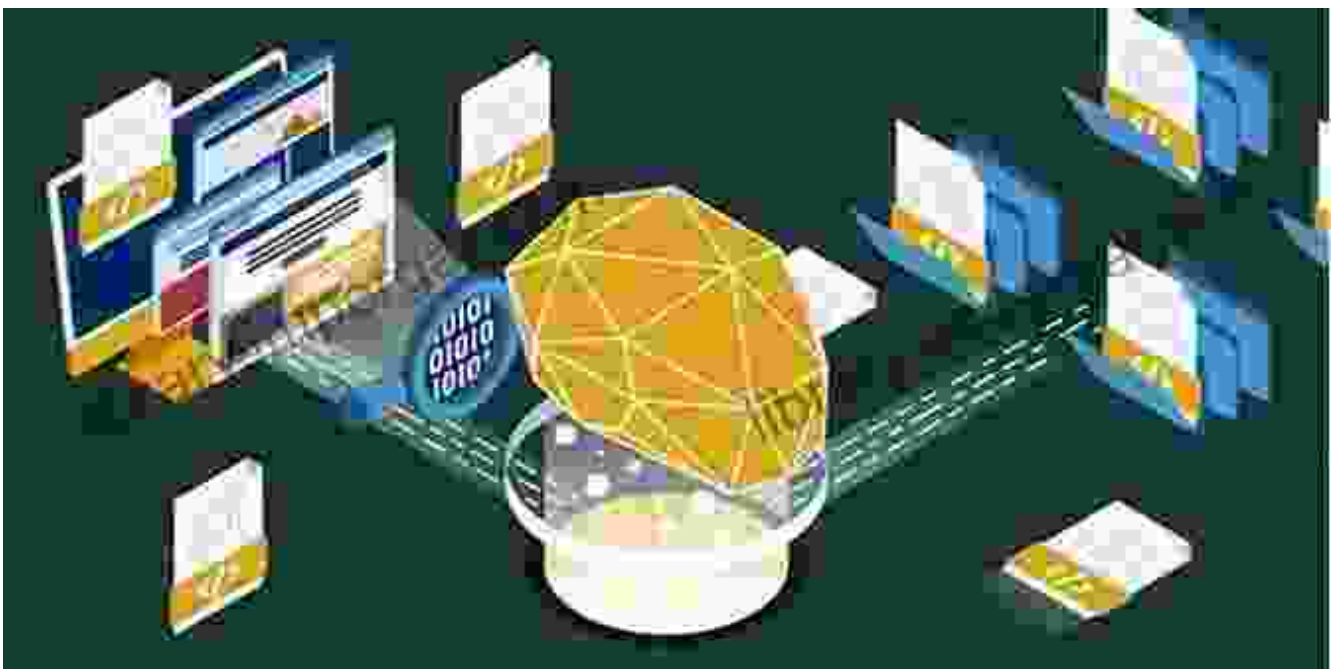
## **Chapter 4: Web Scraping and Data Extraction**

### **Scraping Web Pages**



Harness the power of Selenium and Node.js to extract data from web pages, including text, images, and URLs.

## Parsing and Analyzing Data





Learn how to parse and analyze scraped data to gain valuable insights and perform further processing.

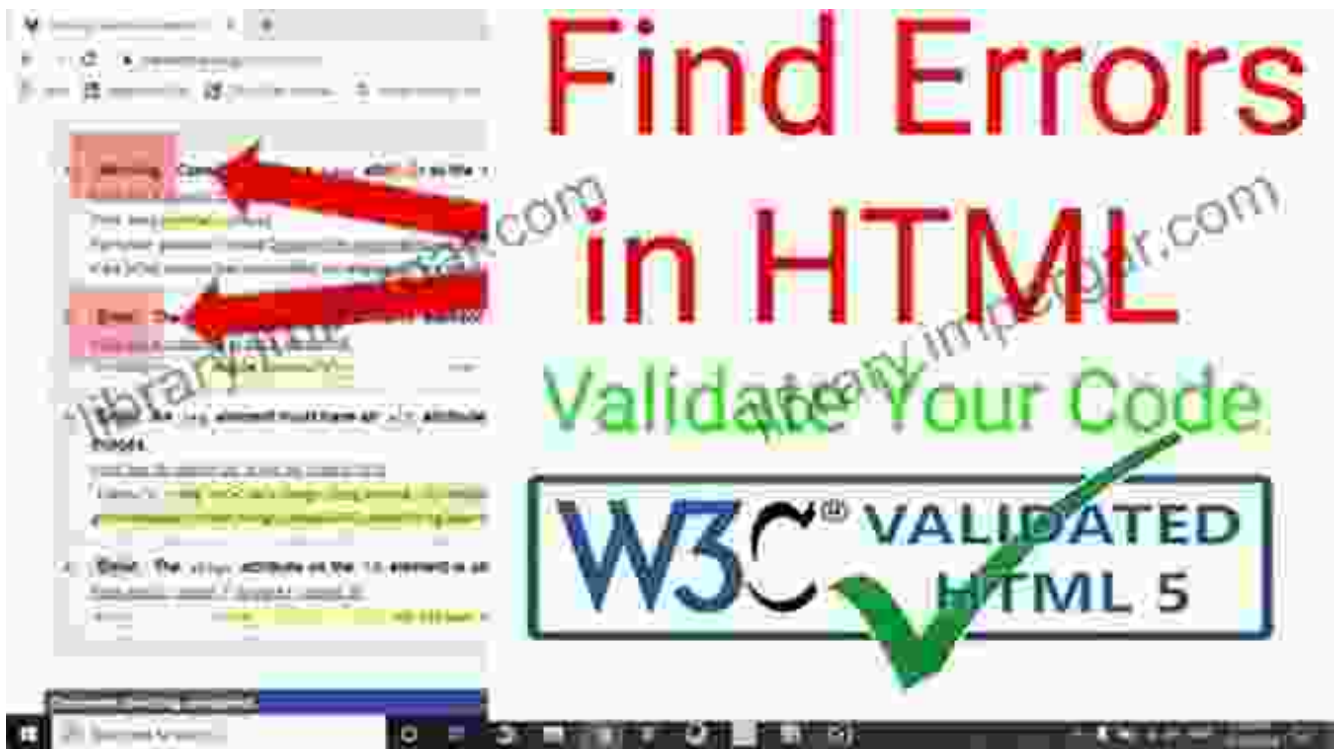
## Chapter 5: Testing and Validation

### Web Application Testing with Selenium



Explore how to use Selenium for automated web application testing, including functional testing, regression testing, and cross-browser testing.

### Validating Web Element Properties



Learn how to validate web element properties, such as text, visibility, and enabled status, for effective testing.

This comprehensive guide has equipped you with the knowledge and skills to automate web browsing operations seamlessly using Selenium and Node.js. From interacting with web elements to performing headless browsing and web scraping, you now have the power to streamline tasks and unlock new possibilities.

Whether you're a web developer, tester, or simply looking to automate repetitive tasks, this guide has provided you with the essential foundation to embark on your automation journey. Embrace the power of Selenium and Node.js, and let's automate the boring stuff together!



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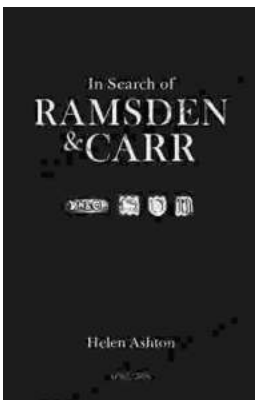
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