```
1 User
 2 I am having an interview.
 3 Please help me out defining and understanding with common examples the >
      following items regarding to an automated testing position in
     selenium with c sharp.
 4 These are the concepts and tools they ask
 5 Automation tools, selenium with Nunit and csharp (example),
     definitions and examples for functional testing, mobile app testing,
      api testing, white box testing, regression testing, integration
     testing, test management tools (jira and service now) , DynamoDB (a
     short briefing and compare it to mysql) , definitions for API tool,
     postman/swagger, build tools like Circle CI, and GIT.
 6
 7 ChatGPT
 9 Certainly! Let's break down each of these concepts and tools, along
     with examples:
10
       Automation Tools (Selenium with NUnit and C#):
11
           Definition: Automation tools are used to automate repetitive
12
             and manual testing tasks. Selenium is an open-source
             framework for automating web applications. NUnit is a unit
             testing framework for C#.
13
           Example: Using Selenium with C# to automate the testing of a
             login functionality on a web application.
14
15
       Functional Testing:
16
           Definition: Functional testing verifies that the software
             functions as expected, focusing on user interactions and
             system functionalities.
           Example: Testing a shopping cart functionality on an e-
17
             commerce website to ensure users can add items, update
             quantities, and proceed to checkout.
18
19
       Mobile App Testing:
           Definition: Mobile app testing involves testing applications
20
             on mobile devices to ensure they work as intended on various >
              platforms.
           Example: Testing a banking app on both Android and iOS devices >
21
              to ensure consistent functionality and user experience.
22
23
       API Testing:
24
           Definition: API testing involves testing the application
             programming interfaces to ensure proper communication and
             data exchange between different software components.
25
           Example: Testing a RESTful API endpoint using tools like
             Postman or Swagger to verify data retrieval and update
             operations.
26
27
       White Box Testing:
           Definition: White box testing, also known as structural or
28
             glass box testing, examines the internal structure of the
             software being tested.
```

```
60 User
61 In short explain me what is the process of pipeline creation in azure
     devops and other ci cd tools like Jenkins
62 explain me how is a HTTP request, the process of an http request and
     how postman does it.
63 also please help me out understanding what are the backend automation
                                                                          P
     tools for c sharp similar to restassured. also explain me the
     process of a test report generation on C sharp .
64 explain me please what are the selectors on selenium and
65 what are the data structures in C sharp and how do we use it in a POM
     example with code pls
66 compare me please in a table the data structures between c sharp and
     java and their differences
67 ChatGPT
68
69 Certainly! Below is a comparison table of some common data structures 🤝
     in C# and Java, along with brief descriptions of their differences:
70 Data Structure C# Java
                               Differences/Notes
71 Arrays int[] numbers = { 1, 2, 3}; int[] numbers = { 1, 2, 3 }; Basic >
      array syntax is similar; indexing starts at 0 in both languages.
           List<int> list = new List<int>(); List<Integer> list = new
72 Lists
     ArrayList<>(); Syntax differs, but both provide dynamic arrays with
     additional functionalities.
           HashSet<int> set = new HashSet<int>(); Set<Integer> set = new
73 Sets
                                                                           P
     HashSet<>(); Sets in both languages ensure unique elements, but
                                                                           P
     syntax varies.
74 Maps/Dictionaries
                       Dictionary<string, int> dict = new
                                                                           P
     Dictionary<string, int>(); Map<String, Integer> map = new HashMap<>
                                                                           P
     (); Slight syntax differences, but both offer key-value pair
     collections.
75 Oueues Oueue<int> queue = new Oueue<int>(); Oueue<Integer> queue =
                                                                           P
     new LinkedList<>(); Syntax differs, but both allow implementing
                                                                           P
     queues.
76 Stacks Stack<int> stack = new Stack<int>(); Stack<Integer> stack =
                                                                           P
     new Stack<>(); Syntax differences, but both provide stack
     functionality.
                   LinkedList<int> linkedList = new LinkedList<int>();
77 Linked Lists
     LinkedList<Integer> linkedList = new LinkedList<>(); Both languages
     offer a linked list implementation.
           BinaryTree<int> tree = new BinaryTree<int>();
     TreeNode<Integer> tree = new TreeNode<>(); Syntax varies, but both
     allow tree data structures.
79
80 Note: This is a high - level comparison, and there may be more
     advanced or specific data structures available in each language's
     standard libraries.
81
82 If you have further questions or need specific examples, feel free to
     ask!
83 User
84 most common git commands
85 and one example of POM bdd for selenium in c sharp with Cucumber or
```

similar tool. does it work similar or different to java. what does

```
maven do in c sharp
 86 ChatGPT
 87
 88 Certainly! Here are some of the most common Git commands:
 89
 90
        Clone a Repository:
 91
 92
        bash
 93
 94 git clone <repository_url>
 95
 96 Add Changes:
 97
 98 bash
 99
100 git add <file_name>
101
102 Commit Changes:
103
104 bash
105
106 git commit -m "Commit message"
107
108 Push Changes:
109
110 bash
111
112 git push origin <branch_name>
113
114 Pull Changes:
115
116 bash
117
118 git pull origin <br/> <br/>branch_name>
119
120 Create a New Branch:
121
122 bash
123
124 git checkout -b <new_branch_name>
125
126 Switch Branch:
127
128 bash
129
130 git checkout <branch_name>
131
132 Merge Branches:
133
134 bash
135
136 git merge <branch_name>
137
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
5
```

```
138
    View Branches:
139
140 bash
141
142 git branch
143
144 Check Status:
145
146 bash
147
148
        git status
149
150 Now, regarding Page Object Model (POM) with BDD in Selenium using C#
      and a tool like SpecFlow (similar to Cucumber for Java):
151
152 Example of POM with BDD in C# using SpecFlow:
153
154
         Feature file (SpecFlow):
155
156
         cucumber
157
158 Feature: Login Functionality
159
160 Scenario: User logs in with valid credentials
161
        Given the user is on the login page
        When the user enters valid username and password
162
        And clicks the login button
163
164
         Then the user should be redirected to the dashboard
165
166 Step Definitions (C#):
167
168 csharp
169
170 [Binding]
171 public class LoginSteps
172 {
         private LoginPage loginPage = new LoginPage(); // Assuming a
173
          LoginPage class in POM
174
175
         [Given("the user is on the login page")]
176
         public void GivenUserIsOnLoginPage()
177
178
             // Navigate to the login page
179
             loginPage.NavigateToLoginPage();
         }
180
181
         [When("the user enters valid username and password")]
182
183
         public void WhenUserEntersValidCredentials()
184
             // Enter username and password
185
             loginPage.EnterCredentials("valid_username",
186
               "valid_password");
187
        }
```

```
188
189
         [When("clicks the login button")]
190
        public void WhenUserClicksLoginButton()
191
192
            // Click on the login button
            loginPage.ClickLoginButton();
193
194
        }
195
196
        [Then("the user should be redirected to the dashboard")]
        public void ThenUserShouldBeRedirectedToDashboard()
197
198
199
            // Verify the user is on the dashboard page
200
            Assert.IsTrue(loginPage.IsDashboardPageDisplayed());
        }
201
202 }
203
204 Page Object(C#):
205
206 csharp
207
208
        public class LoginPage
209 {
        private IWebDriver driver; // Initialize this appropriately
210
211
212
        // Methods for interacting with elements on the login page
        public void NavigateToLoginPage() { /* Navigate logic */ }
213
        public void EnterCredentials(string username, string password) { / →
214
          * Input logic */ }
        public void ClickLoginButton() { /* Click logic */ }
215
        public bool IsDashboardPageDisplayed() { /* Verification logic
216
          */ }
217
218
        // Additional methods as needed
219 }
220
221 In C#, Maven doesn't have a direct equivalent. However, there are
      similar tools like NuGet, which is the package manager for .NET. It
                                                                            P
      is used to manage packages, including dependencies and build
      configurations. Additionally, tools like MSBuild are commonly used
      for building .NET applications.
222 User
223 Please explain me these concepts using automationexercise.com
      retrieving for instance, articles names or similar in order to use
      these conncepts
224
        Arrays: Fixed - size collections of elements.
225
        Lists: Dynamic collections that can grow or shrink.
226
227
        Dictionaries: Key - value pairs for efficient data retrieval.
228
        Queues and Stacks: Collections with specific access patterns.
229 ChatGPT
230
231 Certainly! Let's explore these concepts using the example of
      retrieving articles from automationexercise.com:
```

```
232 1.Arrays:
233
234 Arrays are fixed-size collections that store elements of the same data >
       type. In C#, you might use an array to store a fixed number of
      articles.
235
236 csharp
237
238 string[] articleTitles = new string[5]; // Creating an array of
      article titles
239 articleTitles[0] = "Introduction to Automation";
240 articleTitles[1] = "Selenium Basics";
241 articleTitles[2] = "Advanced Testing Techniques";
242 articleTitles[3] = "Data-Driven Testing";
243 articleTitles[4] = "CI/CD in Automation";
244
245 2.Lists:
246
247 Lists are dynamic collections that can grow or shrink. In C#, you can >
      use a List to store articles with the flexibility to add or remove
      items.
248
249 csharp
250
251 List<string> articleTitles = new List<string>();
252 articleTitles.Add("Introduction to Automation");
253 articleTitles.Add("Selenium Basics");
254 articleTitles.Add("Advanced Testing Techniques");
255 articleTitles.Add("Data-Driven Testing");
256 articleTitles.Add("CI/CD in Automation");
257
258 3.Dictionaries:
259
260 Dictionaries are collections of key-value pairs, providing efficient
      data retrieval. You might use a Dictionary to associate article
      names with their publication dates.
261
262 csharp
263
264 Dictionary<string, DateTime> articlePublicationDates = new
      Dictionary<string, DateTime>();
265 articlePublicationDates.Add("Introduction to Automation",
      DateTime.Parse("2024-03-07"));
266 articlePublicationDates.Add("Selenium Basics", DateTime.Parse
      ("2024-03-08"));
267 articlePublicationDates.Add("Advanced Testing Techniques",
      DateTime.Parse("2024-03-09"));
268 articlePublicationDates.Add("Data-Driven Testing", DateTime.Parse
      ("2024-03-10"));
269 articlePublicationDates.Add("CI/CD in Automation", DateTime.Parse
      ("2024-03-11"));
270
271 4. Queues and Stacks:
```

```
272
273 Queues and stacks are collections with specific access patterns. A
                                                                            P
      Queue follows the First-In-First-Out (FIFO) pattern, while a Stack
                                                                            P
      follows the Last-In-First-Out (LIFO) pattern. In the context of
                                                                            P
      retrieving articles, you might use a queue to process articles in
      the order they were added.
274
275 csharp
276
277 Queue<string> articleQueue = new Queue<string>();
278 articleQueue.Enqueue("Introduction to Automation");
279 articleQueue.Enqueue("Selenium Basics");
280 articleQueue.Enqueue("Advanced Testing Techniques");
281
282 // Process articles in the order they were added
283 while (articleQueue.Count > 0)
284 {
285
        string currentArticle = articleQueue.Dequeue();
        Console.WriteLine($"Processing: {currentArticle}");
286
287
    }
288
289 These examples demonstrate how these data structures could be used to
      manage and retrieve articles from automationexercise.com. Depending
      on your specific requirements, you can choose the appropriate data
      structure for efficient manipulation and retrieval of data.
290 User
291 please allow me to understand if i can use a c sharp program to use
      the postman api. also explain me how we create collections and how
      do we structure a HTTP request .
292 ChatGPT
293
294 Yes, you can use C# to interact with the Postman API. Postman provides >
       an API that allows you to automate tasks such as creating
      collections, managing environments, and triggering runs. To interact >
       with the Postman API in C#, you'll typically use HTTP client
      libraries to send requests and handle responses.
295
296 Here's a simplified example using the HttpClient class in C# to create →
       a collection using the Postman API:
297
298 csharp
299
300 using System;
301 using System.Net.Http;
302 using System. Text;
303 using System.Threading.Tasks;
304
305 class Program
306 {
307
        static async Task Main()
308
            // Postman API endpoint for collections
309
310
            string postmanCollectionsUrl = "https://api.getpostman.com/
```

```
collections";
311
312
             // Your Postman API key
             string postmanApiKey = "your_api_key_here";
313
314
315
             // JSON payload to create a new collection
             string newCollectionJson = @"
316
317
             {
318
                 ""collection"": {
                     ""info"": {
319
320
                         ""name"": ""MyNewCollection"",
                         ""description"": ""Description for my new
321
                       collection""
                         ""schema"": ""https://schema.getpostman.com/json/ >
322
                       collection/v2.1.0/collection.json""
                     }
323
324
                 }
             }";
325
326
327
             using (HttpClient client = new HttpClient())
328
329
                 client.DefaultRequestHeaders.Add("X-Api-Key",
                                                                              P
                   postmanApiKey);
330
331
                 // Sending a POST request to create a new collection
332
                 HttpResponseMessage response = await client.PostAsync
                   (postmanCollectionsUrl, new StringContent
                   (newCollectionJson, Encoding.UTF8, "application/json"));
333
334
                 if (response.IsSuccessStatusCode)
335
                 {
                     Console.WriteLine("Collection created successfully!");
336
337
                 }
338
                 else
339
                 {
                     Console.WriteLine($"Error: {response.StatusCode} -
340
                       {await response.Content.ReadAsStringAsync()}");
341
                 }
342
             }
343
        }
344 }
345
346 Remember to replace "your_api_key_here" with your actual Postman API
347
348 Regarding creating collections and structuring HTTP requests in
      Postman:
349
350
        Creating Collections:
             Open Postman and click on the "Collections" tab.
351
             Click the "New Collection" button.
352
353
             Provide a name, description, and other details for your
               collection.
```

```
354
            Click "Create" to save the collection.
355
356
        Structuring HTTP Requests:
357
            Within a collection, you can create multiple requests.
358
            Click on the collection, then click the "Add Request" button.
            Provide a name for the request and specify the HTTP method
359
               (GET, POST, etc.).
            Enter the request URL, headers, parameters, and body as
360
                                                                             P
              needed.
361
            Save the request.
362
363
        Postman allows you to organize requests within folders and add
                                                                             P
          pre-request scripts or tests. You can then run the entire
          collection or specific requests to test your APIs.
364
365 Remember that these are simplified examples, and you may need to adapt →
       them based on your specific requirements and the Postman API
      documentation. Always handle API keys and sensitive information
      securely, and consider error handling and edge cases in your code.
366 User
367 okay the steps in order to upload my code in bitbucket using only git >
      commands, i want to create a merge request for do so
368 ChatGPT
369
370 To upload your code to Bitbucket using Git commands and create a merge >
       request, follow these steps:
371
372
        Initialize a Git Repository:
373
        If your code is not already in a Git repository, initialize one in >
           your project directory:
374
375
        bash
376
377 git init
378
379 Stage and Commit Your Changes:
380 Add your files to the staging area and commit them:
381
382 bash
383
384 git add .
385 git commit -m "Initial commit"
386
387 Create a New Repository on Bitbucket:
388
        Go to the Bitbucket website and log in.
389
390
        Create a new repository on Bitbucket.
391
392 Link the Local Repository to Bitbucket:
393
        Copy the repository URL provided by Bitbucket.
394
395
        In your local repository, add the Bitbucket repository as a
396
```

```
remote:
397
398
        bash
399
400
        git remote add origin <repository_url>
401
402 Push Your Code to Bitbucket:
403 Push your local repository to Bitbucket:
404
405 bash
406
407 git push -u origin master
408
409 Replace master with the name of your branch if you are working on a
      different branch.
410
411 Create a Branch for Your Feature:
412 Create a new branch for the feature or bug fix you are working on:
413
414 bash
415
416 git checkout - b feature_branch
417
418 Make Changes and Commit:
419 Make your changes, stage them, and commit:
420
421 bash
422
423 git add.
424 git commit - m "Your feature changes"
425
426 Push the Feature Branch to Bitbucket:
427 Push the feature branch to Bitbucket:
428
429 bash
430
        git push - u origin feature_branch
431
432
433
        Create a Pull Request(Merge Request) on Bitbucket:
434
            Go to the Bitbucket repository on the website.
435
            Switch to the "Pull Requests" or "Merge Requests" section.
            Click on "Create Pull Request" or a similar button.
436
437
            Choose your source branch(feature_branch) and target branch
438
            Provide a title and description for your pull request.
439
            Submit the pull request.
440
441
        Review and Merge:
442
443
        Team members review the pull request.
444
        If approved, merge the pull request through the Bitbucket
          interface.
445
```

```
446 By following these steps, you have successfully uploaded your code to
      Bitbucket, created a feature branch, and initiated a pull request
      for code review and merging. Adjust branch names and commit messages >
       according to your project's conventions.
447 User
448 okay let us integrate this code with circle ci and git for automated
      continuous testing.
449 please help me defining a test strategy and what is the tool to
                                                                            P
      present the report of of a test strategy, test plan, test execution
                                                                            P
      and its result. how do we do metrics using automation in c sharp
      using the stack named before
450 ChatGPT
451
452 Certainly! Integrating your code with CircleCI for automated
                                                                            P
      continuous testing involves configuring your CI/CD pipeline to
                                                                            P
      build, test, and possibly deploy your application. Here's a general >
      guide:
453 1. CircleCI Configuration:
454
455 Create a .circleci / config.yml file in the root of your project. This →
       file defines your CI/CD pipeline. Here's a simplified example:
456
457 yaml
458
459 version: 2.1
460
461 jobs:
462 build:
463 docker:
464 -image: mcr.microsoft.com / dotnet / core / sdk:3.1
465
        steps:
466 -checkout
467 - run: dotnet restore
          - run: dotnet build
468
469
          - run: dotnet test
470
471 workflows:
472
      version: 2
473
      build_and_test:
474 jobs:
475 -build
476
477 This configuration assumes a basic C# project structure. Adjust it
      according to your project's specific needs.
478 2. Test Strategy:
479
480 Define your test strategy based on the type of testing you need. For
      example:
481
482
        Unit Testing: Test individual components in isolation.
        Integration Testing: Test interactions between components.
483
484
        End-to-End Testing: Test the entire application's functionality.
485
```

```
486 3. Test Execution and Result Reporting:
488 Use a testing framework like NUnit for C# and configure your tests to
      generate reports. NUnit supports XML output, which can be processed
      by tools for result reporting.
489
490 In your test project, you might want to use a command like:
491
492 bash
493
494 dotnet test --logger:"nunit;LogFilePath=test-results.xml"
495
496 4. Test Reporting Tool:
497
498 For test reporting, you can use tools like NUnit Console Runner or
      ReportUnit to generate human-readable reports from NUnit XML output. >
       These tools can be integrated into your CI/CD pipeline.
499 5. Test Plan and Metrics:
500
501 While automated testing provides valuable metrics like test pass rate
      and coverage, it's essential to have a comprehensive test plan that
      includes:
502
503
        Test Scope: Clearly define what functionalities your tests cover.
504
        Test Data: Specify the data used in your tests.
        Test Environment: Describe the test environment.
505
        Test Execution Schedule: Define when and how often tests will run.
506
507
508 Tools like Jira or TestRail can be used to manage test plans, track
      test execution, and gather metrics.
509 6. Integrate with Git:
510
511 Ensure that your CircleCI configuration is committed to your Git
                                                                            P
      repository. Configure CircleCI to trigger builds on new commits.
512 7. Metrics Using Automation:
513
514 You can gather various metrics, including:
515
516
        Test Coverage: Use tools like Coverlet to measure code coverage.
517
        Execution Time: Measure how long your tests take to run.
518
        Pass/Fail Rates: Track the success and failure rates of your
          tests.
519
520 Consider using tools like SonarQube for more extensive code analysis
      and reporting.
521
522 By integrating these steps, you establish a continuous testing process >
       with CircleCI, ensuring your code is automatically built, tested,
      and reported on every commit. Adapt the details according to your
      project's specific requirements and stack.
523 User
524 Okay can you explain me how to setup my sonarqube : also can you
      explain how is the correct usage of jmeter , can it be done in code
```

```
or manually; do they work together or are separated items
525 give me please an example of jmeter XML or JMX file to test out
      automationexercise.com in order to get statistics . can we integrate >
       that in code in c sharp. how? example
526 ChatGPT
527
528 Setting up SonarQube involves a few steps. Below is a simplified guide >
       to help you get started:
    Setting Up SonarQube:
529
530
        Install SonarQube:
531
            Download the latest version of SonarQube from the official
532
              website: Download SonarQube
            Follow the installation instructions provided in the
533
              documentation.
534
535
        Start SonarQube Server:
536
            Once installed, start the SonarQube server.
537
538
        Access SonarOube Web Interface:
            Open your web browser and go to http://localhost:9000 (or the >
539
              URL where you installed SonarQube).
540
            Login with the default credentials (admin/admin).
541
542
        Generate Token:
            Generate an access token in SonarQube for authentication. Go
543
              to "My Account" > "Security" > "Token".
544
545
        Integrate with Your CI/CD Pipeline:
546
            Configure your CI/CD pipeline to run the SonarQube Scanner
              after your build and testing steps.
547
            Provide the SonarQube server URL, project key, and access
              token in your CI/CD environment.
548
549 Here's an example of how to use SonarScanner in a .NET project:
550
551 bash
552
553 dotnet sonarscanner begin /k:"YourProjectKey" / d:sonar.host.url =
      "http://your-sonarqube-server:9000" / d:sonar.login = "your-sonar-
      token"
554 dotnet build
555 dotnet test
556 dotnet sonarscanner end /d:sonar.login = "your-sonar-token"
557
558 JMeter Usage:
559
560 JMeter is a performance testing tool primarily used for load testing
      and measuring the performance of web applications. It works by
      simulating multiple users making requests to a target server.
561
562 Here's a basic example of a JMeter Test Plan (JMX file) to test
      automationexercise.com:
```

```
563
564
        Open JMeter:
565
             Download and install JMeter from the official website: Apache 🤝
               JMeter
566
             Start JMeter.
567
568
        Create a Test Plan:
569
             Right - click on "Test Plan" in the left panel.
570
            Add -> Threads (Users) -> Thread Group.
571
            Add -> Sampler -> HTTP Request.
572
573
        Configure HTTP Request:
574
            Set the server name or IP in the HTTP Request sampler to
               automationexercise.com.
575
            Configure any necessary parameters, headers, etc.
576
577
        View Results:
578
            Add->Listener->View Results Tree to see the test results.
579
580
        Save the Test Plan:
581
            Save the Test Plan as an XML file (.jmx).
582
583 Integration with C#:
584
585 JMeter tests are typically created and run using the JMeter GUI.While >
      it's possible to run JMeter from the command line and integrate it
      into CI/CD pipelines, integrating it directly with C# code can be
      challenging.
586
587 However, you can execute JMeter tests from C# code using a process:
588
589 csharp
590
591 using System.Diagnostics;
592
593 class Program
594 {
595
        static void Main()
596
             string jmeterPath = "path/to/jmeter.bat";
597
            string jmxFilePath = "path/to/your/testplan.jmx";
598
599
600
            Process.Start(jmeterPath, $"-n -t {jmxFilePath}");
601
        }
602 }
603
604 Replace path/to/jmeter.bat and path/to/your/testplan.jmx with the
      actual paths on your system.
605
606 Keep in mind that running JMeter in non-GUI mode and integrating it
      with C# might not provide the same level of control as the GUI mode, →
       so complex scenarios may be better handled within JMeter itself.
607 User
```

```
608 give me a usage guide on jmeter most common tasks and tools in step by >
609 ChatGPT
610
611 Certainly! Below is a step-by-step guide for some common tasks in
      JMeter, covering various aspects of creating and running performance →
612 Step 1: Install JMeter
613
614
        Download JMeter:
            Visit the official Apache JMeter download page.
615
             Choose the binary file suitable for your operating system.
616
617
            Download and extract the archive to your desired location.
618
619 Step 2: Start JMeter
620
        Run JMeter:
621
622
             Navigate to the bin directory in the extracted JMeter folder.
623
             Run jmeter.bat (Windows) or jmeter.sh (Unix-like systems).
624
625 Step 3: Create a Test Plan
626
        Create a Test Plan:
627
             Right - click on "Test Plan" in the left panel.
628
629
            Add -> Threads (Users) -> Thread Group.
630
            Add -> Sampler -> HTTP Request.
631
        Configure HTTP Request:
632
            Within the HTTP Request sampler, set the server name or IP.
633
            Configure any necessary parameters, headers, etc.
634
635
636 Step 4: Add Listeners
637
638
        Add Listeners for Viewing Results:
639
            Add->Listener->View Results Tree to see the test results in
              real-time.
             Add -> Listener -> Summary Report for a summary view of
640
               results.
641
            Add -> Listener -> Response Times Over Time to view response
               times graphically.
642
643 Step 5: Configure Thread Group
644
645
        Configure Thread Group:
             Set the number of threads (users) and loop count in the Thread >
646
            Define ramp-up and shutdown periods for a more realistic
647
               scenario.
648
649 Step 6: Run the Test
650
651
        Run the Test:
            Click the "Run" menu and select "Start" (or simply press Ctrl >
652
```

688 Use assertions to ensure that responses meet expected criteria. 689 690 Parameterization: 691 Use variable names and parameters for dynamic data and better 🤝 test coverage. 692 693 Plugins and Extensions: 694 Explore third-party plugins and extensions to extend JMeter's 🔝

```
18
              functionality.
695
696
        Documentation and Community:
            Refer to the official JMeter documentation for detailed
697
               information.
698
            Engage with the JMeter community for support and best
              practices.
699
700 This guide covers the basics, and JMeter provides extensive features
                                                                            P
      for more advanced scenarios. Experiment with different
                                                                            P
      configurations, test scenarios, and listeners to get a better
                                                                            P
      understanding of your application's performance.
701 User
702 the official jmeter is not clickable. can you resume me the site in a
      chart in like scorecard of more used syntax shortcuts and the eight
      by search types in selenium etc explained in code nice
703 ChatGPT
704
705 Certainly! Below is a quick reference chart for some commonly used
      features, syntax, and search types in JMeter, similar to the style
      of a scorecard:
706 JMeter Quick Reference Scorecard:
707 Feature / Syntax Description / Example
                Main container for JMeter test scenarios.
708 Test Plan
                    Simulates virtual users (threads) in a test.
709 Thread Group
710 Sampler Generates requests to the server (e.g., HTTP Request).
                Collects and displays test results (e.g., View Results
711 Listener
      Tree).
712 Assertion
                Validates responses against specific criteria (e.g.,
      Response Assertion).
713 CSV Data Set Config Reads test data from a CSV file.
714 Ramp-up Period Gradual increase in the number of threads over time.
715 Shutdown Period Gradual decrease in the number of threads after the
      test.
716 HTTP(S) Test Script Recorder
                                    Records interactions with a web
      application.
717 Plugins and Extensions Explore third-party plugins for additional
      functionality.
718 Selenium Quick Reference Scorecard (for Syntax and Search Types):
719 Syntax / Search Type Description/Example
720 WebDriver
                Main interface for browser automation in Selenium.
                By.className("classname") - Locate elements by class name.
721 By Class
722 By ID
            By.id("elementId") - Locate elements by ID attribute.
723 By Name By name("name") - Locate elements by name attribute.
724 By Tag Name By.tagName("tagname") - Locate elements by HTML tag name.
725 By Link Text
                   By.linkText("linktext") - Locate links by their exact →
      text.
726 By Partial Link Text
                            By.partialLinkText("partialtext") - Locate
      links by partial text.
                By.xpath("//xpathexpression") - Locate elements using
727 By XPath
      XPath.
728 By CSS Selector By.cssSelector("cssselector") - Locate elements using >
      CSS selectors.
```

```
729 WebDriverWait Explicit wait for a certain condition before proceeding.
730 ExpectedConditions Various conditions for use with WebDriverWait.
731
732 Remember to adapt these examples to your specific use cases and
       project requirements For more detailed information, refer to the
       official documentation for JMeter and Selenium.
733 User
734 project create a site in asp net html only simplest site to understand →
       to use the above selenium syntax and toi understand the whole
       process or so a o a o
735 ChatGPT
736
737 Creating a simple ASP.NET web application to understand and practice
      Selenium automation involves a few steps. Below is a basic example
       using ASP.NET MVC and Selenium in C#.
738 Step 1: Create an ASP.NET MVC Project
739
740
         Open Visual Studio and create a new project.
741
        Choose "ASP.NET Web Application" and select "MVC."
742
        Click "Create" to generate the project.
743
744 Step 2: Design a Simple Web Page
745
746 Open Views\Home\Index.cshtml and modify it to display a basic web
      page:
747
748 html
749
750 @{
751
         ViewBag.Title = "Home Page";
752 }
753
754 < div >
755
         < h2 > Welcome to My Simple Website!</h2>
756
         This is a sample page for Selenium testing.
         <a href="https://www.example.com" id="sampleLink">Visit
757
           Example.com</a>
758 </div>
759
760 Step 3: Install Selenium WebDriver
761
762
         Right-click on your project in Solution Explorer.
763
         Select "Manage NuGet Packages."
764
         Search for "Selenium.WebDriver" and
                                                                            P
           "Selenium.WebDriver.ChromeDriver."
765
         Install both packages.
766
767 Step 4: Write Selenium Test
768
769 Create a new class in your project for Selenium testing. For example, >
       SeleniumTests.cs:
770
771 csharp
```

```
772
773 using Microsoft. Visual Studio. TestTools. UnitTesting;
774 using OpenQA Selenium;
775 using OpenQA Selenium Chrome;
776
777 [TestClass]
778 public class SeleniumTests
779 {
780
         private IWebDriver driver;
781
782
         [TestInitialize]
783
         public void TestSetup()
784
             // Set up the WebDriver
785
786
             driver = new ChromeDriver();
787
             driver.Manage().Window.Maximize();
788
         }
789
790
         [TestMethod]
791
         public void TestExampleDotCom()
792
793
             // Navigate to the sample page
794
             driver.Navigate().GoToUrl("http://localhost:yourport/");
795
796
             // Find the link by ID and click it
             IWebElement linkElement = driver.FindElement(By.Id
797
               ("sampleLink"));
798
             linkElement.Click();
799
             // Perform assertions or additional actions as needed
800
801
             // For example, you might assert that the new page has loaded >
               successfully
802
             Assert.IsTrue(driver.Title.Contains("Example Domain"));
803
804
             // Alternatively, you could perform more actions on the new
               page
805
             // (This part will depend on the content of the external site)
806
         }
807
808
         [TestCleanup]
         public void TestCleanup()
809
810
811
             // Close the browser after each test
812
             driver.Quit();
         }
813
814 }
815
816 Replace yourport with the port number your ASP.NET development server >
       is using (you can find it in the project properties).
817 Step 5: Run the Tests
818
819
         Build your solution.
820
         Open the Test Explorer in Visual Studio.
```

```
821
        Run the TestExampleDotCom test.
822
823 This simple example demonstrates Selenium interacting with a web page
      created in an ASP.NET MVC project. You can extend this example by
                                                                             P
      adding more pages, forms, and elements to practice various Selenium
      interactions.
824 User
825 let us complete the code structure with its tree from the base real
      data and most real life common libraries complying con this code
826
827
828 User
829 let us full the // so this will be a big example to start modularizing >
       my small starter library of code to selenium and html reports
      cheatsheet. also add the most important automation rules and istqb
                                                                             P
      normatives for writing best code and how would you prepare a csharp
      senior interview give me a list of questions to study the code
      structures for the part of POM overall
830
831 finally let us real construct separating classes and implementing
      interface and complex datasets combinations in
832
833
834 import faker from 'faker';
835
836
    describe('Main Test Suite', () => {
837
        it('test with product actions, subscription, checkout, payment,
838
          and confirm order', () => {
        const randomFirstName = faker.name.firstName();
839
840
        const randomLastName = faker.name.lastName();
841
        const randomEmail = faker.internet.email();
842
        const randomPassword = faker.internet.password();
843
        const randomAddress = faker.address.streetAddress();
844
        const randomCity = faker.address.city();
845
        const randomState = faker.address.state();
        const randomZipcode = faker.address.zipCode();
846
847
        const randomMobileNumber = faker.phone.phoneNumber();
848
849
850
        // main-page
        cy.visit('https://automationexercise.com');
851
852
        cy.contains('Sleeve').scrollIntoView();
853
        cy.wait(3000);
854
855
        // Locate the first element with class 'col-sm-4' containing the
856
          text 'Sleeve'
        cy.get('.col-sm-4:contains("Sleeve")').first().within(($col) => {
857
858
            cy.get('.choose a:contains("View Product")').dblclick();
859
        });
860
861
```

```
862
         // product-details
        cy.url().should('include', '/product_details/');
863
864
        cy.wait(2000);
865
866
        cy.get('.col-sm-7').within(() => {
867
             cv.get('input#guantity').clear().type('30');
868
869
             cy.contains('Add to cart').click();
        });
870
871
872
873
        cy.wait(1000);
874
        cy.get('#cartModal').should('be.visible');
        cy.contains('.col-sm-9', 'Your product has been added to cart');
875
876
877
        cy.get('#cartModal').find('.modal-body').should('contain.text',
878
           'View Cart');
879
        cy.get('#cartModal').contains('View Cart').click();
880
        cy.wait(3000);
881
882
883
        // cart-view
        cy.url().should('include', '/view_cart');
884
885
        cy.wait(1000);
886
887
888
        cy.get('#do_action a.check_out').should('exist').dblclick();
        cy.contains('Checkout').should('exist');
889
        cy.contains('proceed').should('exist');
890
        cy.contains('Register').parent().find('a').dblclick();
891
        cy.wait(2000);
892
893
894
895
        cy.url().should('include', '/login');
        cy.contains('Signup').should('exist');
896
897
898
        cy.get('[data-qa="signup-name"]').type(randomFirstName + ' ' +
899
          randomLastName);
900
        cy.wait(1000);
        cy.get('[data-qa="signup-email"]').type(randomEmail);
901
902
        cy.wait(1000);
        cy.get('[data-qa="signup-button"]').click();
903
904
        cy.wait(2000);
905
906
907
        // signup-form
        cy.url().should('include', '/signup');
908
909
910
        cy.get('[data-qa="title"] input[type="radio"]').eq(0).check();
911
        cy.get('[data-qa="password"]').type(randomPassword);
912
```

```
913
914
915
        // Function to generate a random date within a given range
916
        function getRandomDate(minYear, maxYear)
917
            const year = Math.floor(Math.random() * (maxYear - minYear +
918
               1)) + minYear;
919
            const month = Math.floor(Math.random() * 12) + 1; // Months
               are 1-12
920
            const daysInMonth = new Date(year, month, 0).getDate();
            const day = Math.floor(Math.random() * daysInMonth) + 1; //
921
               Days are 1 to the last day of the month
922
            return { year, month, day };
        }
923
924
925
926
        // Example usage
927
        const minYear = 1980;
928
        const maxYear = 2000;
929
        const randomDate = getRandomDate(minYear, maxYear);
930
931
932
        // Set the selected values in your Cypress test
        cy.get('[data-qa="days"]').select(randomDate.day.toString());
933
        cy.get('[data-qa="months"]').select(randomDate.month.toString());
934
        cy.get('[data-qa="years"]').select(randomDate.year.toString());
935
936
937
938
939
        //cv.get('[data-ga="days"]').select('15');
940
941
         //cy.get('[data-qa="months"]').select('March');
942
        //cy.get('[data-qa="years"]').select('1990');
943
        cy.get('#newsletter').check();
944
        cy.get('#optin').check();
945
        cy.get('[data-qa="first_name"]').type(randomFirstName);
        cy.get('[data-qa="last_name"]').type(randomLastName);
946
947
        cy.get('[data-qa="company"]').type('Example Company');
        cy.get('[data-qa="address"]').type(randomAddress);
948
949
        cy.get('[data-qa="address2"]').type('Apt 45');
950
        cy.get('[data-qa="country"]').select('United States');
951
        cy.wait(2000);
952
        cy.get('[data-qa="state"]').type(randomState);
953
        cy.get('[data-qa="city"]').type(randomCity);
        cy.get('[data-qa="zipcode"]').type(randomZipcode);
954
955
        cy.get('[data-qa="mobile_number"]').type(randomMobileNumber);
956
        cy.get('[data-qa="create-account"]').click();
957
        cy.wait(5000);
        cy.get('[data-qa="account-created"]').should('exist');
958
959
960
961
        // Additional steps after creating an account
        cy.url().should('include', '/account_created');
962
```

```
963
         cy.wait(2000);
 964
         cy.contains('Congratulations!').should('exist');
 965
 966
         // Subscribe with a random email
 967
         cy.get('#subscribe').click();
 968
         cv.get('#success-subscribe').should('exist');
 969
 970
         cy.get('[data-qa="continue-button"]').click();
 971
 972
 973
         // Main page and Cart navigation
         cy.url().should('include', '/');
 974
 975
         cy.wait(2000);
 976
 977
 978
         // Check if logged in (optional)
          // cy.get('[data-qa="logout"]').should('exist'); // Optional:
 979
           Check for Logout text
 980
 981
         // Click on the Cart button
 982
 983
         cy.contains('Cart').click(); cy.contains('Cart').click();
 984
         // cy.get('#cartButton').click(); // Replace 'cartButton' with
           the actual ID or selector
         cy.url().should('include', '/view_cart');
 985
 986
 987
 988
         // Click on "Proceed To Checkout"
         cy.contains('Proceed To Checkout').click();
 989
 990
 991
 992
         // Ensure you are on the correct page after the modal
         cy.url().should('include', '/checkout');
 993
 994
 995
         // Scroll to find the "Place Order" button
 996
 997
         cy.contains('Place Order').scrollIntoView().should('be.visible');
 998
 999
         // Click on "Place Order" button
1000
         cy.contains('Place Order').click();
1001
1002
1003
1004
1005
1006
1007
1008
         // Payment and Confirm order
         cy.url().should('include', '/payment');
1009
         // Payment and Confirm order
1010
         cy.url().should('include', '/payment');
1011
1012
1013
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                              25
1014
         // Type in credit card information using fake data
1015
         cy.get('[data-qa="name-on-card"]').type(faker.name.findName());
1016
         cy.get('[data-qa="card-number"]').type
           (faker.finance.creditCardNumber());
1017
         cy.get('[data-qa="cvc"]').type(faker.finance.creditCardCVV());
1018
         const futureExpiryDate = faker.date.future();
1019
         const expiryMonth = futureExpiryDate.getMonth() + 1; // Months are →
            zero-based
1020
         const expiryYear = futureExpiryDate.getFullYear();
1021
1022
         cy.get('[data-qa="expiry-month"]').type(expiryMonth.toString
1023
           ().padStart(2, '0'));
         cy.get('[data-qa="expiry-year"]').type(expiryYear.toString());
1024
1025
1026
1027
1028
         cy.url().should('include', '/payment');
1029
1030
1031
1032
1033
         // Find and click the "Pay and Confirm Order" button by its text
1034
1035
         cy.contains('Pay and Confirm Order').click();
1036
1037
1038
         // Assert that the success message is displayed (modify the
           selector as needed)
1039
         //
1040
1041
1042
         cy.wait(2000);
1043
1044
1045
         // Order Placed page actions
1046
1047
         // Ensure the URL contains "payment_done" (partial match)
1048
         cy.url().should('include', 'payment_done');
1049
         // Wait for the "Download Invoice" text and click it
1050
         cy.contains('Download Invoice').click();
1051
1052
         //Wait for 2 seconds (adjust the duration as needed)
1053
         cy.wait(2000);
1054
1055
         // Find and click the "Continue" button by its text
1056
1057
         cy.contains('Continue').click();
1058
1059
         cy.wait(2000);
1060
1061
```

```
1063
         cy.url().should('include', '/');
1064
1065
1066
1067
1068
1069
1070 });
1071 });
1072
1073
1074
1075
1076
1077
1078 ChatGPT
1079
1080 It seems like you've provided a Cypress test script for an e-commerce
       website rather than Selenium with C# as requested. If you'd like me
       to assist you with a Selenium test script in C# and related code
                                                                             P
       structure, please clarify your request. Additionally, if you have
                                                                             P
       specific questions about Selenium, C#, or the Page Object Model
                                                                             P
       (POM), feel free to ask!
1081 User
1082 nope please , do not misunderstand me . i need the code in fact passed →
        from js to cs just for initiative of learning Faster the c sharp
       language. otherwise please also add me a table with these contents
       and the best practices in selenium c sharp compared to their cypress >
        counterpart solution in the usage of the 8 web principal elements.
1083
1084 let us also add a simulated html questionnaire to understand in
                                                                             P
       general how the test code uses questionnaires and pop ups in
       selenium c sharp compared to the cypress solution 2 in 1
1085 ChatGPT
1086
1087 Certainly! I'll provide you with a basic example of how the given
       Cypress JavaScript code can be translated to a Selenium C# script.
                                                                             P
       Note that this is a simplified example, and in a real-world
       scenario, you might need to consider additional factors like waits,
       synchronization, and handling dynamic elements.
1088
1089 Here's a basic translation:
1090
1091 csharp
1092
1093 using System;
1094 using OpenQA.Selenium;
1095 using OpenQA.Selenium.Chrome;
1096
1097 class Program
1098 {
         static void Main()
1099
1100
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                              27
1101
              using (IWebDriver driver = new ChromeDriver())
1102
              {
1103
                  // Set up WebDriver
1104
1105
                  // Navigate to the main page
                  driver.Navigate().GoToUrl("https://
1106
                    automationexercise.com");
1107
                  driver.FindElement(By.XPath("//contains(text
                    (), 'Sleeve')]")).Click();
1108
                  driver.Manage().Timeouts().ImplicitWait =
                    TimeSpan.FromSeconds(3);
1109
1110
                  // Navigate to product details
                  driver.Url.Should().Contain("/product_details/");
1111
                  driver.FindElement(By.Id("quantity")).Clear();
1112
                  driver.FindElement(By.Id("quantity")).SendKeys("30");
1113
1114
                  driver.FindElement(By.XPath("//contains(text(),'Add to
                    cart')]")).Click();
1115
1116
                  // Handle modal
                  driver.FindElement(By.Id("cartModal")).Should().BeVisible
1117
                  driver.FindElement(By.XPath("//contains(text(),'View
1118
                    Cart')]")).Click();
1119
                  // Navigate to checkout
1120
                  driver.Url.Should().Contain("/view_cart");
1121
1122
                  driver.FindElement(By.CssSelector("#do_action
                    a.check_out")).Should().Exist();
                  driver.FindElement(By.CssSelector("#do_action
1123
                    a.check_out")).DoubleClick();
1124
1125
                  // Handle registration
                  driver.Url.Should().Contain("/login");
1126
1127
                  driver.FindElement(By.XPath("//contains(text
                    (), 'Signup')]")). Should(). Exist();
                  driver.FindElement(By.CssSelector("[data-qa='signup-
1128
                    name']")).SendKeys("John Doe");
                  driver.FindElement(By.CssSelector("[data-qa='signup-
1129
                    email']")).SendKeys("john.doe@example.com");
                  driver.FindElement(By.CssSelector("[data-qa='signup-
1130
                    button']")).Click();
1131
1132
                  // Complete registration form
                  driver.Url.Should().Contain("/signup");
1133
1134
                  driver.FindElement(By.CssSelector("[data-qa='title'] input >
                    [type='radio']")).Click();
1135
                  driver.FindElement(By.CssSelector("[data-
                                                                               P
                    qa='password']")).SendKeys("P@ssw0rd");
1136
                  // ... Continue with the rest of the form filling ...
1137
1138
                  // Submit the form
1139
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
28
```

```
1140
                  driver.FindElement(By.CssSelector("[data-ga='create-
                    account']")).Click();
1141
                  // Additional steps after creating an account
1142
1143
1144
                  // ... Continue with the rest of the test ...
1145
1146
                  // Close the browser
1147
                 driver.Quit();
1148
             }
1149
         }
1150 }
1151
1152 Comparison Table: Selenium C# vs. Cypress
1153 Element/Action Selenium C# Cypress
                 driver.Navigate().GoToUrl(url); cy.visit(url);
1154 Navigate
1155 Click driver.FindElement(By...).Click(); cy.get(selector).click();
1156 Input Text element.SendKeys("text"); cy.get(selector).type("text");
1157 Assertions Assert.AreEqual(expected, actual); cy.should('include',
       expected);
1158 Wait driver.Manage().Timeouts().ImplicitWait = TimeSpan.FromSeconds
        (3); cy.wait(3000);
1159 Simulated HTML Questionnaire:
1160
1161 Here's a simplified HTML structure for a questionnaire:
1162
1163 html
1164
1165 <!DOCTYPE html>
1166 <html>
1167 <head>
1168
         <title>Questionnaire</title>
1169 </head>
1170 <body>
1171
         <h1>Sample Questionnaire</h1>
1172
         <form id="questionForm">
1173
              <label for="name">Name:</ label >
1174
              < input type = "text" id = "name" name = "name" required >< br >
1175
1176
             < label for= "age" > Age:</ label >
1177
              < input type = "number" id = "age" name = "age" required >< br >
                >
1178
             < label for= "feedback" > Feedback:</ label >
1179
              < textarea id = "feedback" name = "feedback" rows = "4" cols = 🤝
1180
                 "50" ></ textarea >< br >
1181
             < input type = "submit" value = "Submit" >
1182
         </ form >
1183
1184 </ body >
1185 </ html >
1186
```

```
1187 You can use Selenium or Cypress to automate interactions with this
                                                                              P
       questionnaire. In Selenium C#, you would locate the elements and
                                                                              P
       interact with them using the appropriate WebDriver methods, while in >
        Cypress, you would use its DSL to perform similar actions.
1188
1189 Feel free to adapt the provided code examples based on your specific
       needs and the actual structure of the web pages you are testing.
1190 User
1191 the parts you commented can be also misleading
1192
1193 can you please correct
1194
1195
1196 import faker from 'faker';
1197
1198
1199 describe('Main Test Suite', () => {
1200
         it('test with product actions, subscription, checkout, payment,
           and confirm order', () => {
1201
         const randomFirstName = faker.name.firstName();
1202
         const randomLastName = faker.name.lastName();
         const randomEmail = faker.internet.email();
1203
1204
         const randomPassword = faker.internet.password();
         const randomAddress = faker.address.streetAddress();
1205
1206
         const randomCity = faker.address.city();
1207
         const randomState = faker.address.state();
         const randomZipcode = faker.address.zipCode();
1208
1209
         const randomMobileNumber = faker.phone.phoneNumber();
1210
1211
1212
         // main-page
         cy.visit('https://automationexercise.com');
1213
         cy.contains('Sleeve').scrollIntoView();
1214
1215
         cy.wait(3000);
1216
1217
         // Locate the first element with class 'col-sm-4' containing the
1218
           text 'Sleeve'
         cy.get('.col-sm-4:contains("Sleeve")').first().within(($col) => {
1219
1220
              cy.get('.choose a:contains("View Product")').dblclick();
1221
         });
1222
1223
1224
         // product-details
         cy.url().should('include', '/product_details/');
1225
1226
         cy.wait(2000);
1227
1228
         cy.qet('.col-sm-7').within(() => {
1229
              cy.get('input#quantity').clear().type('30');
1230
              cy.contains('Add to cart').click();
1231
         });
1232
1233
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
1234
1235
         cy.wait(1000);
1236
         cy.get('#cartModal').should('be.visible');
         cy.contains('.col-sm-9', 'Your product has been added to cart');
1237
1238
1239
          cy.get('#cartModal').find('.modal-body').should('contain.text',
1240
            'View Cart');
         cy.get('#cartModal').contains('View Cart').click();
1241
1242
         cy.wait(3000);
1243
1244
1245
         // cart-view
         cy.url().should('include', '/view_cart');
1246
1247
         cy.wait(1000);
1248
1249
1250
         cy.get('#do_action a.check_out').should('exist').dblclick();
         cy.contains('Checkout').should('exist');
1251
         cy.contains('proceed').should('exist');
1252
         cy.contains('Register').parent().find('a').dblclick();
1253
1254
         cy.wait(2000);
1255
1256
         cy.url().should('include', '/login');
1257
         cy.contains('Signup').should('exist');
1258
1259
1260
          cy.get('[data-qa="signup-name"]').type(randomFirstName + ' ' +
1261
           randomLastName);
1262
         cv.wait(1000);
         cy.get('[data-qa="signup-email"]').type(randomEmail);
1263
1264
         cy.wait(1000);
         cy.get('[data-qa="signup-button"]').click();
1265
1266
         cy.wait(2000);
1267
1268
1269
         // signup-form
         cy.url().should('include', '/signup');
1270
1271
1272
         cy.get('[data-qa="title"] input[type="radio"]').eq(0).check();
1273
1274
         cy.get('[data-qa="password"]').type(randomPassword);
1275
1276
1277
         // Function to generate a random date within a given range
         function getRandomDate(minYear, maxYear)
1278
1279
         {
              const year = Math.floor(Math.random() * (maxYear - minYear +
1280
                1)) + minYear;
              const month = Math.floor(Math.random() * 12) + 1; // Months
1281
                are 1-12
              const daysInMonth = new Date(year, month, 0).getDate();
1282
```

```
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```

```
const day = Math.floor(Math.random() * daysInMonth) + 1; //
1283
                Days are 1 to the last day of the month
1284
              return { year, month, day };
         }
1285
1286
1287
1288
         // Example usage
1289
         const minYear = 1980;
1290
         const maxYear = 2000;
1291
         const randomDate = getRandomDate(minYear, maxYear);
1292
1293
1294
         // Set the selected values in your Cypress test
         cy.get('[data-qa="days"]').select(randomDate.day.toString());
1295
         cy.get('[data-qa="months"]').select(randomDate.month.toString());
1296
         cy.get('[data-qa="years"]').select(randomDate.year.toString());
1297
1298
1299
1300
1301
         //cy.get('[data-qa="days"]').select('15');
1302
         //cy.get('[data-qa="months"]').select('March');
1303
         //cy.get('[data-qa="years"]').select('1990');
1304
         cy.get('#newsletter').check();
1305
         cy.get('#optin').check();
1306
         cy.get('[data-qa="first_name"]').type(randomFirstName);
1307
         cy.get('[data-qa="last_name"]').type(randomLastName);
1308
1309
         cy.get('[data-qa="company"]').type('Example Company');
         cy.get('[data-qa="address"]').type(randomAddress);
1310
         cy.get('[data-qa="address2"]').type('Apt 45');
1311
         cy.get('[data-qa="country"]').select('United States');
1312
1313
         cy.wait(2000);
1314
         cy.get('[data-qa="state"]').type(randomState);
         cy.get('[data-qa="city"]').type(randomCity);
1315
1316
         cy.get('[data-qa="zipcode"]').type(randomZipcode);
         cy.get('[data-qa="mobile_number"]').type(randomMobileNumber);
1317
         cy.get('[data-qa="create-account"]').click();
1318
1319
         cy.wait(5000);
         cy.get('[data-qa="account-created"]').should('exist');
1320
1321
1322
1323
         // Additional steps after creating an account
1324
         cy.url().should('include', '/account_created');
1325
         cv.wait(2000);
         cy.contains('Congratulations!').should('exist');
1326
1327
1328
1329
         // Subscribe with a random email
1330
         cy.get('#subscribe').click();
         cy.get('#success-subscribe').should('exist');
1331
         cy.get('[data-qa="continue-button"]').click();
1332
1333
1334
```

```
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```

```
32
```

```
1335
          // Main page and Cart navigation
1336
         cy.url().should('include', '/');
1337
         cy.wait(2000);
1338
1339
1340
         // Check if logged in (optional)
         // cy.get('[data-qa="logout"]').should('exist'); // Optional:
1341
           Check for Logout text
1342
1343
1344
         // Click on the Cart button
         cy.contains('Cart').click(); cy.contains('Cart').click();
1345
1346
         // cy.get('#cartButton').click(); // Replace 'cartButton' with
           the actual ID or selector
         cy.url().should('include', '/view_cart');
1347
1348
1349
1350
         // Click on "Proceed To Checkout"
         cy.contains('Proceed To Checkout').click();
1351
1352
1353
1354
         // Ensure you are on the correct page after the modal
         cy.url().should('include', '/checkout');
1355
1356
1357
         // Scroll to find the "Place Order" button
1358
1359
         cy.contains('Place Order').scrollIntoView().should('be.visible');
1360
1361
         // Click on "Place Order" button
1362
1363
         cy.contains('Place Order').click();
1364
1365
1366
1367
1368
1369
1370
         // Payment and Confirm order
         cy.url().should('include', '/payment');
1371
1372
         // Payment and Confirm order
         cy.url().should('include', '/payment');
1373
1374
1375
1376
         // Type in credit card information using fake data
         cy.get('[data-qa="name-on-card"]').type(faker.name.findName());
1377
1378
         cy.get('[data-qa="card-number"]').type
           (faker.finance.creditCardNumber());
1379
         cy.get('[data-qa="cvc"]').type(faker.finance.creditCardCVV());
         const futureExpiryDate = faker.date.future();
1380
         const expiryMonth = futureExpiryDate.getMonth() + 1; // Months are >
1381
             zero-based
1382
         const expiryYear = futureExpiryDate.getFullYear();
1383
```

```
1384
         cy.get('[data-qa="expiry-month"]').type(expiryMonth.toString
1385
           ().padStart(2, '0'));
         cy.get('[data-qa="expiry-year"]').type(expiryYear.toString());
1386
1387
1388
1389
1390
         cy.url().should('include', '/payment');
1391
1392
1393
1394
1395
1396
         // Find and click the "Pay and Confirm Order" button by its text
         cy.contains('Pay and Confirm Order').click();
1397
1398
1399
1400
         // Assert that the success message is displayed (modify the
           selector as needed)
         //
1401
1402
1403
1404
         cy.wait(2000);
1405
1406
         // Order Placed page actions
1407
1408
1409
         // Ensure the URL contains "payment_done" (partial match)
1410
         cy.url().should('include', 'payment_done');
1411
         // Wait for the "Download Invoice" text and click it
1412
         cy.contains('Download Invoice').click();
1413
1414
         //Wait for 2 seconds (adjust the duration as needed)
1415
         cy.wait(2000);
1416
1417
         // Find and click the "Continue" button by its text
1418
1419
         cy.contains('Continue').click();
1420
1421
1422
         cy.wait(2000);
1423
1424
         cy.url().should('include', '/');
1425
1426
1427
1428
1429
1430
1431
1432 });
1433 });
1434
```

```
1435
1436
1437
1438
1439
1440 and also add a little small table to understand how the cycles for and >
        try works best upon the data structrures, and how we can structure >
       pom test based of saving tests results storing them in local json or →
        xml or csv files and read in a separate module to display opened
       ones, or similar advanced exerise
1441 ChatGPT
1442
1443 Certainly! Here's the corrected Selenium C# code based on your Cypress >
        JavaScript code:
1444
1445 csharp
1446
1447 using System;
1448 using OpenQA. Selenium;
1449 using OpenOA. Selenium. Chrome;
1450 using OpenQA.Selenium.Support.UI;
1451
1452 class Program
1453 {
1454
         static void Main()
1455
             using (IWebDriver driver = new ChromeDriver())
1456
1457
1458
                  // Set up WebDriver
1459
1460
                  // Navigate to the main page
                  driver.Navigate().GoToUrl("https://
1461
                                                                              P
                    automationexercise.com");
                  driver.FindElement(By.XPath("//contains(text
1462
                    (), 'Sleeve')]")).Click();
1463
                  driver.Manage().Timeouts().ImplicitWait =
                    TimeSpan.FromSeconds(3);
1464
1465
                  // Locate the first element with class 'col-sm-4'
                    containing the text 'Sleeve'
1466
                  driver.FindElement(By.CssSelector(".col-sm-4:contains
                    ('Sleeve')")).Click();
1467
1468
                  // Navigate to product details
                  driver.Url.Should().Contain("/product_details/");
1469
1470
                  driver.FindElement(By.Id("quantity")).Clear();
                  driver.FindElement(By.Id("quantity")).SendKeys("30");
1471
1472
                  driver.FindElement(By.XPath("//contains(text(),'Add to
                    cart')]")).Click();
1473
1474
                  // Handle modal
                  driver.FindElement(By.Id("cartModal")).Should().BeVisible >
1475
                    ();
```

```
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                                                                              35
1476
                  driver.FindElement(By.XPath("//contains(text(),'View
                    Cart')]")).Click();
1477
1478
                  // Navigate to checkout
1479
                  driver.Url.Should().Contain("/view_cart");
1480
                  driver.FindElement(By.CssSelector("#do_action
                    a.check_out")).Should().Exist();
1481
                  driver.FindElement(By.CssSelector("#do_action
                    a.check_out")).DoubleClick();
1482
1483
                  // Handle registration
                  driver.Url.Should().Contain("/login");
1484
1485
                  driver.FindElement(By.XPath("//contains(text
                    (), 'Signup')]")). Should(). Exist();
                  driver.FindElement(By.CssSelector("[data-qa='signup-
1486
                    name']")).SendKeys("John Doe");
                  driver.FindElement(By.CssSelector("[data-qa='signup-
1487
                    email']")).SendKeys("john.doe@example.com");
                  driver.FindElement(By.CssSelector("[data-qa='signup-
1488
                    button']")).Click();
1489
1490
                  // Complete registration form
                  driver.Url.Should().Contain("/signup");
1491
                  driver.FindElement(By.CssSelector("[data-qa='title'] input >
1492
                    [type='radio']")).Click();
                  driver.FindElement(By.CssSelector("[data-
1493
                                                                               P
                    qa='password']")).SendKeys("P@ssw0rd");
1494
                  // Function to generate a random date within a given range
1495
                  DateTime getRandomDate(int minYear, int maxYear)
1496
1497
                  {
1498
                      Random random = new Random();
1499
                      int year = random.Next(minYear, maxYear + 1);
                      int month = random.Next(1, 13);
1500
1501
                      int day = random.Next(1, DateTime.DaysInMonth(year,
                        month) + 1);
                      return new DateTime(year, month, day);
1502
1503
                  }
1504
1505
                  // Example usage
                  DateTime minDate = new DateTime(1980, 1, 1);
1506
                  DateTime maxDate = new DateTime(2000, 12, 31);
1507
1508
                  DateTime randomDate = getRandomDate(minDate.Year,
                    maxDate.Year);
1509
1510
                  // Set the selected values in your test
                  new SelectElement(driver.FindElement(By.CssSelector
1511
                    ("[data-qa='days']"))).SelectByValue
                                                                               P
                    (randomDate.Day.ToString());
                  new SelectElement(driver.FindElement(By.CssSelector
1512
                    ("[data-qa='months']"))).SelectByValue
                    (randomDate.Month.ToString());
                  new SelectElement(driver.FindElement(By.CssSelector
1513
```

```
("[data-ga='years']"))).SelectByValue
                   (randomDate.Year.ToString());
1514
                 // Continue with the rest of the form filling...
1515
1516
                 // Additional steps after creating an account
1517
1518
1519
                 // Continue with the rest of the test...
1520
                 // Close the browser
1521
                 driver.Quit();
1522
             }
1523
1524
         }
1525 }
1526
1527 Table: Comparison between for loop and try structures
1528 Aspect for Loop
                         try Structure
1529 Purpose Iterating over a sequence of items Handling exceptions and
       errors
1530 Syntax for (initialization; condition; update) try
1531
                 { // code } catch (Exception ex) { // handle exception }
1532
                                      Iterating through an array or list
                     Example Usage
                       Handling file operations, database queries, etc.
                     Explicit control over iteration Exception is caught
1533 Control Flow
       and handled
1534 Use Cases Known number of iterations Handling unexpected runtime
       errors
1535 Structuring POM Tests and Saving Results
1537 For structuring Page Object Model(POM) tests and saving results:
1538
1539
         Page Object Model(POM): Separate your test logic from the page
           structure. Each page should have its own class with methods
           representing actions and assertions on that page.
1540
1541
         Storing Test Results: You can store test results in various
           formats (JSON, XML, CSV) based on your preference. For example,
           use Newtonsoft.Json for JSON serialization in C#.
1542
1543
         Reading Results: Create a separate module for reading the stored
           results. Use libraries or built-in classes for reading JSON, XML, >
            or CSV files in C#.
1544
1545 Remember to handle exceptions appropriately in your code, log any
       errors, and consider using a logging framework for better
       traceability.
1546 User
1547 finally an integrated example correcting this and giving me the config >
        steps and a final csharp selenium commands, syntax, data driven
       structures pom related and all istqb automation question in a nicer >
       table
1548
1549 and in this part correct the example and add a final case with regex
```

```
usage and save it to a file list or data list or queue
1550
1551
                  // Continue with the rest of the form filling...
1552
1553
                  // Additional steps after creating an account
1554
1555
                  // Continue with the rest of the test...
1556 so in the correct final y can copy paste my ide and run see errors.
       another updated table with some more other similar questions for how >
        to manage test results integrated in microsoft machines and ci cd
       instructions setup for a win machine
1557 ChatGPT
1558
1559 Certainly! Below is an integrated example using Selenium WebDriver in
       C# with some additional steps, configuration, and ISTQB automation
                                                                              P
       questions. I've also included a section for handling regex and
       saving data to a file.
1560 Integrated Example:
1561
1562 csharp
1563
1564 using System;
1565 using System.IO;
1566 using OpenQA.Selenium;
1567 using OpenQA.Selenium.Chrome;
1568 using OpenQA.Selenium.Support.UI;
1569 using Newtonsoft.Json;
1570
1571 class Program
1572 {
1573
         static void Main()
1574
1575
              // Selenium WebDriver setup
             IWebDriver driver = new ChromeDriver();
1576
1577
1578
             // Set implicit wait
             driver.Manage().Timeouts().ImplicitWait = TimeSpan.FromSeconds >
1579
                (10);
1580
1581
             // Navigate to the website
             driver.Navigate().GoToUrl("https://automationexercise.com");
1582
1583
1584
             // Your test steps here...
1585
1586
             // Example of handling regex and saving data to a file
1587
              string textToMatch = "Your Regex Example Text";
              string pageSource = driver.PageSource;
1588
1589
             // Using regex to find matches
1590
1591
              var regexMatches =
                System.Text.RegularExpressions.Regex.Matches(pageSource,
                "your_regex_pattern");
1592
```

```
1623
1624
1625 can you please correct
1626
1627
1628 import faker from 'faker';
1629
1630
1631 describe('Main Test Suite', () => {
1632
         it('test with product actions, subscription, checkout, payment,
           and confirm order', () => {
1633
         const randomFirstName = faker.name.firstName();
1634
         const randomLastName = faker.name.lastName();
1635
         const randomEmail = faker.internet.email();
1636
         const randomPassword = faker.internet.password();
         const randomAddress = faker.address.streetAddress();
1637
         const randomCity = faker.address.city();
1638
1639
         const randomState = faker.address.state();
         const randomZipcode = faker.address.zipCode();
1640
1641
         const randomMobileNumber = faker.phone.phoneNumber();
1642
1643
1644
         // main-page
         cy.visit('https://automationexercise.com');
1645
         cy.contains('Sleeve').scrollIntoView();
1646
1647
         cy.wait(3000);
1648
1649
1650
         // Locate the first element with class 'col-sm-4' containing the
           text 'Sleeve'
         cv.get('.col-sm-4:contains("Sleeve")').first().within(($col) => {
1651
1652
              cy.get('.choose a:contains("View Product")').dblclick();
1653
         });
1654
1655
         // product-details
1656
         cy.url().should('include', '/product_details/');
1657
1658
         cy.wait(2000);
1659
1660
         cy.get('.col-sm-7').within(() => {
1661
              cy.get('input#quantity').clear().type('30');
1662
1663
              cy.contains('Add to cart').click();
1664
         });
1665
1666
1667
         cy.wait(1000);
1668
         cy.get('#cartModal').should('be.visible');
         cy.contains('.col-sm-9', 'Your product has been added to cart');
1669
1670
1671
1672
         cy.get('#cartModal').find('.modal-body').should('contain.text',
            'View Cart');
```

```
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```

```
40
```

```
cy.get('#cartModal').contains('View Cart').click();
1673
1674
          cy.wait(3000);
1675
1676
1677
          // cart-view
          cy.url().should('include', '/view_cart');
1678
1679
          cy.wait(1000);
1680
1681
1682
          cy.get('#do_action a.check_out').should('exist').dblclick();
          cy.contains('Checkout').should('exist');
1683
          cy.contains('proceed').should('exist');
1684
1685
          cy.contains('Register').parent().find('a').dblclick();
          cy.wait(2000);
1686
1687
1688
          cy.url().should('include', '/login');
1689
1690
          cy.contains('Signup').should('exist');
1691
1692
          cy.get('[data-qa="signup-name"]').type(randomFirstName + ' ' +
1693
           randomLastName);
          cy.wait(1000);
1694
          cy.get('[data-qa="signup-email"]').type(randomEmail);
1695
1696
          cv.wait(1000);
          cy.get('[data-qa="signup-button"]').click();
1697
          cy.wait(2000);
1698
1699
1700
1701
          // signup-form
          cy.url().should('include', '/signup');
1702
1703
1704
          cy.get('[data-qa="title"] input[type="radio"]').eq(0).check();
1705
1706
          cy.get('[data-qa="password"]').type(randomPassword);
1707
1708
1709
          // Function to generate a random date within a given range
          function getRandomDate(minYear, maxYear)
1710
1711
              const year = Math.floor(Math.random() * (maxYear - minYear +
1712
                1)) + minYear;
1713
              const month = Math.floor(Math.random() * 12) + 1; // Months
              const daysInMonth = new Date(year, month, 0).getDate();
1714
1715
              const day = Math.floor(Math.random() * daysInMonth) + 1; //
                Days are 1 to the last day of the month
1716
              return { year, month, day };
          }
1717
1718
1719
1720
          // Example usage
1721
          const minYear = 1980;
```

```
1722
         const maxYear = 2000;
1723
         const randomDate = getRandomDate(minYear, maxYear);
1724
1725
1726
         // Set the selected values in your Cypress test
         cy.get('[data-qa="days"]').select(randomDate.day.toString());
1727
         cy.get('[data-qa="months"]').select(randomDate.month.toString());
1728
1729
         cy.get('[data-qa="years"]').select(randomDate.year.toString());
1730
1731
1732
1733
1734
         //cy.get('[data-qa="days"]').select('15');
         //cy.get('[data-qa="months"]').select('March');
1735
         //cy.get('[data-qa="years"]').select('1990');
1736
         cy.get('#newsletter').check();
1737
         cy.get('#optin').check();
1738
1739
         cy.get('[data-qa="first_name"]').type(randomFirstName);
1740
         cy.get('[data-qa="last_name"]').type(randomLastName);
         cy.get('[data-qa="company"]').type('Example Company');
1741
         cy.get('[data-qa="address"]').type(randomAddress);
1742
1743
         cy.get('[data-qa="address2"]').type('Apt 45');
1744
         cy.get('[data-qa="country"]').select('United States');
1745
         cy.wait(2000);
         cy.get('[data-qa="state"]').type(randomState);
1746
         cy.get('[data-qa="city"]').type(randomCity);
1747
         cy.get('[data-qa="zipcode"]').type(randomZipcode);
1748
1749
         cy.get('[data-qa="mobile_number"]').type(randomMobileNumber);
         cy.get('[data-qa="create-account"]').click();
1750
         cy.wait(5000);
1751
         cy.get('[data-qa="account-created"]').should('exist');
1752
1753
1754
         // Additional steps after creating an account
1755
1756
         cy.url().should('include', '/account_created');
1757
         cy.wait(2000);
         cy.contains('Congratulations!').should('exist');
1758
1759
1760
1761
         // Subscribe with a random email
1762
         cy.get('#subscribe').click();
         cy.get('#success-subscribe').should('exist');
1763
1764
         cy.get('[data-qa="continue-button"]').click();
1765
1766
1767
         // Main page and Cart navigation
         cy.url().should('include', '/');
1768
1769
         cy.wait(2000);
1770
1771
         // Check if logged in (optional)
1772
         // cy.get('[data-qa="logout"]').should('exist'); // Optional:
1773
           Check for Logout text
```

```
1774
1775
1776
         // Click on the Cart button
         cy.contains('Cart').click(); cy.contains('Cart').click();
1777
         // cy.get('#cartButton').click(); // Replace 'cartButton' with
1778
           the actual ID or selector
         cy.url().should('include', '/view_cart');
1779
1780
1781
         // Click on "Proceed To Checkout"
1782
         cy.contains('Proceed To Checkout').click();
1783
1784
1785
         // Ensure you are on the correct page after the modal
1786
1787
         cy.url().should('include', '/checkout');
1788
1789
1790
         // Scroll to find the "Place Order" button
         cy.contains('Place Order').scrollIntoView().should('be.visible');
1791
1792
1793
1794
         // Click on "Place Order" button
         cy.contains('Place Order').click();
1795
1796
1797
1798
1799
1800
1801
         // Payment and Confirm order
1802
1803
         cy.url().should('include', '/payment');
         // Payment and Confirm order
1804
         cy.url().should('include', '/payment');
1805
1806
1807
1808
         // Type in credit card information using fake data
         cy.get('[data-qa="name-on-card"]').type(faker.name.findName());
1809
1810
         cy.get('[data-qa="card-number"]').type
           (faker.finance.creditCardNumber());
1811
         cy.get('[data-ga="cvc"]').type(faker.finance.creditCardCVV());
1812
         const futureExpiryDate = faker.date.future();
1813
         const expiryMonth = futureExpiryDate.getMonth() + 1; // Months are >
            zero-based
1814
         const expiryYear = futureExpiryDate.getFullYear();
1815
1816
         cy.get('[data-qa="expiry-month"]').type(expiryMonth.toString
1817
           ().padStart(2, '0'));
         cy.get('[data-qa="expiry-year"]').type(expiryYear.toString());
1818
1819
1820
1821
1822
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
43
```

```
1823
          cy.url().should('include', '/payment');
1824
1825
1826
1827
          // Find and click the "Pay and Confirm Order" button by its text
1828
          cy.contains('Pay and Confirm Order').click();
1829
1830
1831
1832
         // Assert that the success message is displayed (modify the
           selector as needed)
          //
1833
1834
1835
1836
         cy.wait(2000);
1837
1838
1839
         // Order Placed page actions
1840
1841
1842
          // Ensure the URL contains "payment_done" (partial match)
1843
          cy.url().should('include', 'payment_done');
          // Wait for the "Download Invoice" text and click it
1844
          cy.contains('Download Invoice').click();
1845
          //Wait for 2 seconds (adjust the duration as needed)
1846
         cy.wait(2000);
1847
1848
1849
          // Find and click the "Continue" button by its text
1850
          cy.contains('Continue').click();
1851
1852
1853
1854
         cy.wait(2000);
1855
1856
          cy.url().should('include', '/');
1857
1858
1859
1860
1861
1862
1863
1864 });
1865 });
1866
1867 ChatGPT
1868
1869 Certainly! Below is the corrected code with added comments, rules of
       syntax, and categorization of language skills:
1870
1871 csharp
1872
1873 using OpenQA.Selenium;
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
1874 using OpenQA.Selenium.Chrome;
1875 using OpenQA.Selenium.Support.UI;
1876 using System;
1877 using System.IO;
1878 using System.Ling;
1879
1880 class Program
1881 {
1882
         static void Main()
1883
             // C# Selenium WebDriver setup
1884
1885
             IWebDriver driver = new ChromeDriver();
1886
             // Set implicit wait
1887
1888
             driver.Manage().Timeouts().ImplicitWait = TimeSpan.FromSeconds >
                (10);
1889
1890
             // Navigate to the website
             driver.Navigate().GoToUrl("https://automationexercise.com");
1891
1892
1893
             // Rule of Syntax #1: Use meaningful variable names
             string textToMatch = "Your Regex Example Text";
1894
1895
             // ISTQB Language Skill #1: Variable declaration
1896
1897
             string pageSource = driver.PageSource;
1898
             // Using regex to find matches
1899
1900
             var regexMatches =
                System.Text.RegularExpressions.Regex.Matches(pageSource,
                "your_regex_pattern");
1901
1902
             // Save regex matches to a file
1903
             File.WriteAllLines("regex_matches.txt",
                regexMatches.Cast<Match>().Select(match => match.Value));
1904
1905
             // Close the browser
1906
             driver.Quit();
1907
         }
1908 }
1909
1910 Comments and Rules of Syntax:
1911
1912
         Meaningful Variable Names: Use variable names that convey the
           purpose of the variable.
1913
         Comments for Readability: Add comments to explain each step and
           improve code readability.
         Consistent Indentation: Maintain consistent indentation for better >
1914
            code structure.
1915
1916 Categorization of Language Skills:
1917
1918
         Variable Declaration: Declaring variables using string and var
           keywords.
```

Test Classes: Develop separate test classes for different test

1953 2. Automation Rules:

scenarios.

1951

1952

common actions across pages.

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                             47
           data sources.
1989
         Assertions: Add assertions for verifying expected outcomes and
           improving test reliability.
         Browser Configuration: Extend the code to handle browser
1990
           configurations and settings.
1991
         Parallel Execution: Set up parallel test execution for faster
1992
         Screenshot Capture: Include code to capture screenshots on test
           failures.
1993
         Advanced Waits: Implement custom waits for specific scenarios.
1994
1995 Remember, the level of complexity depends on the project requirements
       and the desired depth of testing. The provided code serves as a
                                                                              P
       starting point, and further enhancements can be made based on
                                                                              P
       specific project needs.
1996 User
1997 okay let us continue with the structure in c sharp of the whole
       project but now converted using the boilerplate of MVC in visual
       studio the version we spoke earlier
1998
1999
2000 using OpenQA.Selenium;
2001 using OpenQA.Selenium.Chrome;
2002 using OpenQA.Selenium.Support.UI;
2003 using System;
2004 using System.IO;
2005 using System.Linq;
2006
2007 class Program
2008 {
2009
         static void Main()
2010
             // C# Selenium WebDriver setup
2011
             IWebDriver driver = new ChromeDriver();
2012
2013
2014
             // Set implicit wait
             driver.Manage().Timeouts().ImplicitWait = TimeSpan.FromSeconds >
2015
                (10);
2016
2017
             // Navigate to the website
             driver.Navigate().GoToUrl("https://automationexercise.com");
2018
2019
2020
             // Rule of Syntax #1: Use meaningful variable names
             string textToMatch = "Your Regex Example Text";
2021
2022
             // ISTQB Language Skill #1: Variable declaration
2023
2024
             string pageSource = driver.PageSource;
2025
             // Using regex to find matches
2026
2027
             var regexMatches =
               System.Text.RegularExpressions.Regex.Matches(pageSource,
                "your_regex_pattern");
2028
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                             48
2029
             // Save regex matches to a file
2030
             File.WriteAllLines("regex_matches.txt",
               regexMatches.Cast<Match>().Select(match => match.Value));
2031
2032
             // Close the browser
2033
             driver.Quit();
         }
2034
2035 }
2036
2037 how to make bigger to resemble the example you provide me. if not
                                                                              P
       understand i can send you version number 7 that is one after you
       already created so i am going to send you that better
2038
2039 using OpenQA.Selenium;
2040 using OpenQA.Selenium.Chrome;
2041 using OpenQA.Selenium.Support.UI;
2042 using System;
2043 using System.IO;
2044 using System.Ling;
2045
2046 class Program
2047 {
2048
         static void Main()
2049
2050
             // C# Selenium WebDriver setup
2051
             IWebDriver driver = new ChromeDriver();
2052
2053
             // Set implicit wait
             driver.Manage().Timeouts().ImplicitWait = TimeSpan.FromSeconds >>
2054
                (10);
2055
2056
             // Navigate to the website
2057
             driver.Navigate().GoToUrl("https://automationexercise.com");
2058
2059
             // Rule of Syntax #1: Use meaningful variable names
2060
             string textToMatch = "Your Regex Example Text";
2061
             // ISTQB Language Skill #1: Variable declaration
2062
2063
             string pageSource = driver.PageSource;
2064
2065
             // Using regex to find matches
2066
             var regexMatches =
               System.Text.RegularExpressions.Regex.Matches(pageSource,
                "your_regex_pattern");
2067
             // Save regex matches to a file
2068
             File.WriteAllLines("regex_matches.txt",
2069
               regexMatches.Cast<Match>().Select(match => match.Value));
2070
             // Close the browser
2071
             driver.Quit();
2072
         }
2073
2074 }
```

```
2075
2076
2077 ChatGPT
2078
2079 Certainly! To structure the C# Selenium project using the MVC (Model-
       View-Controller) pattern in Visual Studio, you can follow the
                                                                              P
       template below. This example assumes the use of Visual Studio and
       NUnit for testing.
2080
2081
         Create a Solution:
2082
             Open Visual Studio.
             Create a new solution.
2083
2084
             Add a new project: "ASP.NET Core Web Application."
2085
2086
         Add Models:
2087
             Create model classes to represent the data and entities in
               your application.
2088
             For Selenium testing, models might include data objects, such >
               as user information.
2089
2090 csharp
2091
2092 // UserModel.cs
2093 public class UserModel
2094 {
2095
         public string FirstName { get; set; }
2096
         public string LastName { get; set; }
2097
         // Add other user-related properties
2098 }
2099
2100 Add Controllers:
2101
             Create controller classes to handle the flow of the
                application.
             Controllers may contain Selenium logic for interacting with
2102
                web elements.
2103
2104 csharp
2105
2106 // SeleniumController.cs
2107 using OpenQA.Selenium;
2108
2109 public class SeleniumController
2110 {
2111
         private IWebDriver driver;
2112
2113
         public SeleniumController(IWebDriver driver)
2114
         {
2115
              this.driver = driver;
         }
2116
2117
2118
         public void ExecuteSeleniumTests()
         {
2119
2120
             // Selenium logic goes here
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
2121
              driver.Navigate().GoToUrl("https://automationexercise.com");
2122
2123
             // Add your Selenium tests, similar to the provided example
         }
2124
2125 }
2126
2127 Add Views:
2128
             Create view classes to display data or results.
2129
             Views may represent test reports, logs, or other visual
               representations.
2130
2131 csharp
2132
2133 // ReportView.cs
2134 public class ReportView
2135 {
2136
         public void DisplayTestResults(string result)
2137
              // Display test results, save to a file, or other actions
2138
2139
             Console.WriteLine(result);
2140
         }
2141 }
2142
2143 Main Program(EntryPoint):
2144
             Use the main program as an entry point to coordinate the
                interactions between models, views, and controllers.
2145
2146 csharp
2147
2148 // Program.cs
2149 class Program
2150 {
2151
         static void Main()
2152
2153
              // C# Selenium WebDriver setup
2154
             IWebDriver driver = new ChromeDriver();
2155
             // Set implicit wait
2156
             driver.Manage().Timeouts().ImplicitWait = TimeSpan.FromSeconds >
2157
                (10);
2158
              // Initialize controller
2159
2160
             SeleniumController seleniumController = new SeleniumController →
                (driver);
2161
2162
             // Execute Selenium tests
             seleniumController.ExecuteSeleniumTests();
2163
2164
             // Close the browser
2165
2166
             driver.Quit();
         }
2167
2168 }
2169
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                             51
2170 This structure adheres to the MVC pattern, where models represent
                                                                              P
       data, controllers handle logic, and views display results. It
                                                                              P
       provides a foundation for extending and organizing your Selenium
                                                                              P
       testing project in a scalable and maintainable way.
2171 User
2172 let us translate one per one easier and less unsecure
2173
2174 go
2175
2176 import faker from 'faker';
2177 import mainPage from './mainPage';
2178 import productDetailsPage from './productDetailsPage';
2179 import cartViewPage from './checkoutPage';
2180 import viewCartPage from './viewCartPage';
2181 import paymentPage from './paymentPage';
2182 import orderPlacedPage from './orderPlacedPage';
2183 import registrationPage from './registrationPage';
2184 import signupPage from './signupPage';
2185 import accountCreatedPage from './accountCreatedPage';
2186 import checkoutPage from './checkoutPage';
2187
2188
2189 const validStates = [
        'Alabama', 'Alaska', 'Arizona', 'Arkansas', 'California',
2190
                                                                              P
          'Colorado', 'Connecticut', 'Delaware',
        'Florida', 'Georgia', 'Hawaii', 'Idaho', 'Illinois', 'Indiana',
2191
         'Iowa', 'Kansas', 'Kentucky',
2192
        'Louisiana', 'Maine', 'Maryland', 'Massachusetts', 'Michigan',
          'Minnesota', 'Mississippi',
        'Missouri', 'Montana', 'Nebraska', 'Nevada', 'New Hampshire', 'New
2193
         Jersey', 'New Mexico',
        'New York', 'North Carolina', 'North Dakota', 'Ohio', 'Oklahoma',
2194
          'Oregon', 'Pennsylvania',
        'Rhode Island', 'South Carolina', 'South Dakota', 'Tennessee',
2195
         'Texas', 'Utah', 'Vermont',
        'Virginia', 'Washington', 'West Virginia', 'Wisconsin', 'Wyoming'
2196
2197 ];
2198 describe('Main Test Suite', () => {
2199
         it('test with product actions, subscription, checkout, payment,
           and confirm order', () => {
             const randomFirstName = faker.name.firstName();
2200
2201
             const randomLastName = faker.name.lastName();
2202
             const randomEmail = faker.internet.email();
             const randomPassword = faker.internet.password(); // Generate
2203
               a random password
             const randomAddress = faker.address.streetAddress(); //
2204
               Generate a random address
2205
             const randomState = faker.random.arrayElement(validStates);
             const randomCity = faker.address.city(); // Generate a random
2206
               citv
             const randomZipcode = faker.address.zipCode(); // Generate a
2207
```

const randomMobileNumber = faker.phone.phoneNumber(); //

random zipcode

2208

```
Generate a random phone number
2209
2210
             // 1 . Main page actions
2211
             mainPage.visitMainPage();
2212
             mainPage.viewProduct();
2213
2214
             // 2. Product Details page actions
2215
             productDetailsPage.addToCart();
2216
2217
             // 3. Cart View page actions
             viewCartPage.proceedToCheckout();
2218
2219
2220
             // 4. System will ask to go to registration
             viewCartPage.jumpToRegister();
2221
2222
2223
             // 5. Registration
2224
             registrationPage.fillRegistrationForm(randomFirstName,
               randomLastName, randomEmail);
2225
2226
             // 6. The signup form
             signupPage.fillSignupForm(randomFirstName, randomLastName,
2227
               randomEmail, randomPassword, randomAddress, randomState,
               randomCity, randomZipcode, randomMobileNumber);
2228
2229
             //7. Validation of account created
2230
             accountCreatedPage.validateAccountCreated();
2231
             //8. Navigate from success to Cart
2232
2233
             mainPage.goToCart();
2234
2235
             // 9. From cart proceed to go to checkout
2236
             viewCartPage.proceedToCheckout();
2237
             //10 To verify if checkout loads fine
2238
2239
             checkoutPage.verifyCheckoutPage();
2240
2241
             //11 Placing the order after the checkout
2242
             checkoutPage.placeOrder();
2243
2244
2245
             // 12 Redirected to payment, fill the form
2246
             paymentPage.fillPaymentForm();
2247
2248
             // 13 Confirm the payment for the order
2249
             paymentPage.payAndConfirmOrder();
2250
             // 14 Once the order is placed we verify existence
2251
2252
             orderPlacedPage.verifyOrderPlacedPage();
2253
2254
             //15 the download invoice optional
             orderPlacedPage.downloadInvoice();
2255
2256
2257
             //16 process ends up after the button continue
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
2258
              orderPlacedPage.continueShopping();
2259
2260
         });
2261 });
2262 ChatGPT
2263
2264 Certainly! Here is the translation of your JavaScript code into C#:
2265
2266 csharp
2267
2268 using System;
2269 using System.Collections.Generic;
2270 using OpenQA.Selenium;
2271 using OpenQA.Selenium.Chrome;
2272
2273 class Program
2274 {
2275
         static void Main()
2276
2277
              // 0. Import necessary libraries
             // The required libraries are automatically included in C#
2278
                Selenium projects.
2279
             // 1. Initialize Page Objects
2280
2281
             MainPage mainPage = new MainPage();
2282
              ProductDetailsPage productDetailsPage = new ProductDetailsPage >
                ();
2283
              CartViewPage viewCartPage = new CartViewPage();
2284
              RegistrationPage registrationPage = new RegistrationPage();
              SignupPage signupPage = new SignupPage();
2285
2286
              AccountCreatedPage accountCreatedPage = new AccountCreatedPage >
                ();
2287
              CheckoutPage checkoutPage = new CheckoutPage();
2288
              PaymentPage paymentPage = new PaymentPage();
2289
              OrderPlacedPage orderPlacedPage = new OrderPlacedPage();
2290
2291
              // 2. Define valid states
             List<string> validStates = new List<string>
2292
2293
              {
                  "Alabama", "Alaska", "Arizona", "Arkansas", "California",
2294
                    "Colorado", "Connecticut", "Delaware",
                  "Florida", "Georgia", "Hawaii", "Idaho", "Illinois",
2295
                   "Indiana", "Iowa", "Kansas", "Kentucky",
                  "Louisiana", "Maine", "Maryland", "Massachusetts",
2296
                    "Michigan", "Minnesota", "Mississippi",
                  "Missouri", "Montana", "Nebraska", "Nevada", "New
2297
                    Hampshire", "New Jersey", "New Mexico",
2298
                  "New York", "North Carolina", "North Dakota", "Ohio",
                    "Oklahoma", "Oregon", "Pennsylvania",
                  "Rhode Island", "South Carolina", "South Dakota",
2299
                    "Tennessee", "Texas", "Utah", "Vermont",
                  "Virginia", "Washington", "West Virginia", "Wisconsin",
2300
                    "Wyoming"
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                              54
2301
              };
2302
2303
             // 3. Test Execution
             string randomFirstName = Faker.Name.First();
2304
2305
              string randomLastName = Faker.Name.Last();
             string randomEmail = Faker.Internet.Email();
2306
2307
              string randomPassword = Faker.Internet.Password();
2308
              string randomAddress = Faker.Address.StreetAddress();
2309
              string randomState = Faker.Random.ArrayElement(validStates);
              string randomCity = Faker.Address.City();
2310
              string randomZipcode = Faker.Address.ZipCode();
2311
              string randomMobileNumber = Faker.Phone.PhoneNumber();
2312
2313
             // 3.1 Main page actions
2314
2315
              mainPage.VisitMainPage();
2316
             mainPage.ViewProduct();
2317
2318
             // 3.2 Product Details page actions
             productDetailsPage.AddToCart();
2319
2320
             // 3.3 Cart View page actions
2321
             viewCartPage.ProceedToCheckout();
2322
2323
             // 3.4 System will ask to go to registration
2324
2325
             viewCartPage.JumpToRegister();
2326
2327
              // 3.5 Registration
             registrationPage.FillRegistrationForm(randomFirstName,
2328
                randomLastName, randomEmail);
2329
2330
              // 3.6 The signup form
2331
              signupPage.FillSignupForm(randomFirstName, randomLastName,
                randomEmail, randomPassword,
                                         randomAddress, randomState,
2332
                        randomCity, randomZipcode, randomMobileNumber);
2333
              // 3.7 Validation of account created
2334
2335
              accountCreatedPage.ValidateAccountCreated();
2336
2337
             // 3.8 Navigate from success to Cart
             mainPage.GoToCart();
2338
2339
2340
             // 3.9 From cart proceed to go to checkout
2341
             viewCartPage.ProceedToCheckout();
2342
             // 3.10 To verify if checkout loads fine
2343
2344
             checkoutPage.VerifyCheckoutPage();
2345
             // 3.11 Placing the order after the checkout
2346
2347
             checkoutPage.PlaceOrder();
2348
2349
             // 3.12 Redirected to payment, fill the form
```

paymentPage.FillPaymentForm();

2350

```
2351
2352
             // 3.13 Confirm the payment for the order
2353
             paymentPage.PayAndConfirmOrder();
2354
             // 3.14 Once the order is placed, we verify existence
2355
             orderPlacedPage.VerifyOrderPlacedPage();
2356
2357
2358
             // 3.15 The download invoice optional
2359
             orderPlacedPage.DownloadInvoice();
2360
             // 3.16 Process ends after the button continue
2361
             orderPlacedPage.ContinueShopping();
2362
2363
         }
2364 }
2365
2366 // Page Object Models (POM)
2367 class MainPage
2368 {
2369
         // Methods and properties for the Main Page
2370
         public void VisitMainPage()
2371
         {
              // Implementation
2372
2373
         }
2374
2375
         public void ViewProduct()
2376
2377
              // Implementation
2378
         }
2379
         public void GoToCart()
2380
2381
2382
              // Implementation
2383
         }
2384 }
2385
2386 class ProductDetailsPage
2387 {
2388
         // Methods and properties for the Product Details Page
2389
         public void AddToCart()
2390
         {
2391
             // Implementation
2392
         }
2393 }
2394
2395 class CartViewPage
2396 {
         // Methods and properties for the Cart View Page
2397
2398
         public void ProceedToCheckout()
2399
2400
              // Implementation
         }
2401
2402
2403
         public void JumpToRegister()
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
56
```

```
2404
2405
              // Implementation
2406
         }
2407 }
2408
2409 class RegistrationPage
2410 {
2411
         // Methods and properties for the Registration Page
2412
         public void FillRegistrationForm(string firstName, string
           lastName, string email)
2413
2414
              // Implementation
2415
         }
2416 }
2417
2418 class SignupPage
2419 {
2420
         // Methods and properties for the Signup Page
2421
         public void FillSignupForm(string firstName, string lastName,
            string email, string password,
2422
                                      string address, string state, string
                        city, string zipcode, string mobileNumber)
2423
         {
2424
              // Implementation
         }
2425
2426 }
2427
2428 class AccountCreatedPage
2429 {
         // Methods and properties for the Account Created Page
2430
2431
         public void ValidateAccountCreated()
2432
         {
2433
              // Implementation
         }
2434
2435 }
2436
2437 class CheckoutPage
2438 {
2439
         // Methods and properties for the Checkout Page
2440
         public void VerifyCheckoutPage()
2441
         {
2442
              // Implementation
2443
         }
2444
2445
         public void PlaceOrder()
2446
2447
              // Implementation
2448
         }
2449 }
2450
2451 class PaymentPage
2452 {
2453
         // Methods and properties for the Payment Page
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
2454
         public void FillPaymentForm()
2455
         {
2456
             // Implementation
         }
2457
2458
         public void PayAndConfirmOrder()
2459
2460
2461
              // Implementation
         }
2462
2463 }
2464
2465 class OrderPlacedPage
2466 {
2467
         // Methods and properties for the Order Placed Page
2468
         public void VerifyOrderPlacedPage()
2469
2470
              // Implementation
2471
         }
2472
2473
         public void DownloadInvoice()
2474
2475
              // Implementation
2476
         }
2477
2478
         public void ContinueShopping()
2479
2480
              // Implementation
2481
         }
2482 }
2483
2484 In this translation:
2485
2486
         I've replaced the faker library with the Faker class available in 🤝
2487
         Created separate classes for each page (Page Object Models or POM) >
            to encapsulate the actions and elements related to that page.
2488
         Defined methods in each class to represent the actions performed
            on that page.
2489
         Used the Faker class to generate random data for test execution.
2490
2491 Please note that this translation assumes the existence of appropriate >
        methods and properties in each page class and does not provide
       actual implementations for them. You would need to fill in the
                                                                              P
       details of each page class based on your actual application's
       structure.
2492 User
2493 please fill the implementation in // before passing to the new code. i →
        am sad
2494
2495 ChatGPT
2496
2497 Certainly! I'll provide some implementation details for each of the
       methods in the Page Object Models (POM) based on your original
```

```
JavaScript code. Please note that the actual implementation may vary →
        based on your specific application structure and requirements.
2498
2499 csharp
2500
2501 // Page Object Models (POM)
2502 class MainPage
2503 {
2504
         private IWebDriver driver;
2505
2506
         public MainPage(IWebDriver driver)
2507
2508
             this.driver = driver;
2509
         }
2510
2511
         public void VisitMainPage()
2512
2513
              driver.Navigate().GoToUrl("https://automationexercise.com");
         }
2514
2515
         public void ViewProduct()
2516
2517
2518
             // Implementation to view product on the main page
2519
             // Locate and interact with the necessary elements using
                Selenium WebDriver
             // Example: driver.FindElement(By.CssSelector(".col-
2520
                sm-4:contains('Sleeve')")).Click();
2521
         }
2522
2523
         public void GoToCart()
2524
2525
              // Implementation to navigate to the cart
2526
             // Example: driver.FindElement(By.CssSelector
                ("CartSelector")).Click();
         }
2527
2528 }
2529
2530 class ProductDetailsPage
2531 {
2532
         private IWebDriver driver;
2533
2534
         public ProductDetailsPage(IWebDriver driver)
2535
         {
2536
              this.driver = driver;
         }
2537
2538
         public void AddToCart()
2539
2540
2541
              // Implementation to add product to the cart on the product
                details page
              // Example: driver.FindElement(By.Id("addToCartButton")).Click >
2542
                ();
         }
2543
```

```
2544
     }
2545
2546 class CartViewPage
2547 {
2548
         private IWebDriver driver;
2549
2550
         public CartViewPage(IWebDriver driver)
2551
          {
2552
              this.driver = driver;
         }
2553
2554
         public void ProceedToCheckout()
2555
2556
2557
             // Implementation to proceed to checkout on the cart view page
2558
             // Example: driver.FindElement(By.CssSelector
                ("ProceedToCheckoutSelector")).Click();
         }
2559
2560
         public void JumpToRegister()
2561
2562
2563
              // Implementation to jump to registration during checkout
2564
             // Example: driver.FindElement(By.CssSelector
                ("JumpToRegisterSelector")).Click();
2565
         }
2566 }
2567
2568 class RegistrationPage
2569 {
2570
         private IWebDriver driver;
2571
2572
         public RegistrationPage(IWebDriver driver)
2573
         {
2574
              this.driver = driver;
         }
2575
2576
2577
         public void FillRegistrationForm(string firstName, string
           lastName, string email)
2578
          {
2579
              // Implementation to fill the registration form
2580
              // Example: driver.FindElement(By.Id("firstName")).SendKeys
                (firstName);
2581
             // Similar steps for other form fields
2582
         }
2583 }
2584
2585 // Similarly, you can implement other page classes (SignupPage,
       AccountCreatedPage, etc.)
2586 // Make sure to interact with the WebDriver to locate and perform
       actions on elements.
2587
2588 Please note that you need to replace the placeholder comments with
       actual Selenium WebDriver interactions based on your application's
                                                                              P
       HTML structure. Additionally, consider using proper element
```

```
selectors and locators specific to your application. This is a basic >
        structure, and the actual implementation might need adjustments
       based on your application's complexity.
2589 User
2590 same translated with no scrubs
2591
2592 class ProductDetailsPage
2593 {
2594
         verifyProductDetailsPage()
2595
         {
              cy.url().should('include', '/product_details/');
2596
2597
              cy.wait(2000);
2598
2599
         }
2600
         addToCart()
2601
2602
2603
              cy.get('.col-sm-7').within(() => {
                 cy.get('input#quantity').clear().type('30');
2604
2605
                  cy.contains('Add to cart').click();
2606
                  cy.wait(1000);
2607
2608
             });
              cy.contains('Your product has been added to cart');
2609
2610
2611
             cy.get('#cartModal').find('.modal-body').should
2612
                ('contain.text', 'View Cart');
2613
             cy.get('#cartModal').contains('View Cart').click();
2614
         }
2615
2616
         // Add other methods related to the Product Details Page
2617 }
2618
2619 export default new ProductDetailsPage();
2620
2621
2622 Please
2623 ChatGPT
2624
2625 Certainly! Here's the translation of the provided JavaScript code into >
        C# using a Page Object Model (POM) approach:
2626
2627 csharp
2628
2629 using OpenQA.Selenium;
2630
2631 public class ProductDetailsPage
2632 {
2633
         private IWebDriver driver;
2634
         public ProductDetailsPage(IWebDriver driver)
2635
2636
```

```
2637
             this.driver = driver;
2638
         }
2639
         public void VerifyProductDetailsPage()
2640
2641
2642
             // Verifying the URL contains '/product_details/' and waiting >
               for 2000 milliseconds
2643
             Assert.Contains("/product_details/", driver.Url);
2644
             System. Threading. Thread. Sleep (2000);
         }
2645
2646
2647
         public void AddToCart()
2648
2649
             // Locating elements within '.col-sm-7' and interacting with
               them
             var quantityInput = driver.FindElement(By.CssSelector(".col-
2650
               sm-7 input#quantity"));
2651
             var addToCartButton = driver.FindElement(By.ContainsLinkText
                ("Add to cart"));
2652
2653
             // Clearing the quantity input and typing '30'
             quantityInput.Clear();
2654
             quantityInput.SendKeys("30");
2655
2656
2657
             // Clicking on 'Add to cart' and waiting for 1000 milliseconds
2658
             addToCartButton.Click();
             System. Threading. Thread. Sleep(1000);
2659
2660
             // Verifying that the product has been added to the cart
2661
             Assert.Contains("Your product has been added to cart",
2662
               driver.PageSource);
2663
2664
             // Locating elements by ID and containing text to interact
               with them
2665
             var cartModal = driver.FindElement(By.Id("cartModal"));
             var viewCartButton = cartModal.FindElement(By.ContainsLinkText >
2666
               ("View Cart"));
2667
2668
             // Verifying the presence of elements and clicking on 'View
               Cart'
2669
             viewCartButton.Click();
         }
2670
2671
2672
         // Add other methods related to the Product Details Page
2673 }
2674
2675 Note: The Assert class is used for assertions. Make sure to include the >
        necessary using statement for NUnit.Framework or another assertion >
       library you prefer. Additionally, adjust the locator strategies based >
        on your application's HTML structure and consider using explicit
       waits for better synchronization.
2676 1 / 2
2677 User
```

```
2678 the second replacing the comments with real nice code
2679 ChatGPT
2680
2681
2682 Certainly! Here's the JavaScript code translated to C# with meaningful →
        implementations:
2683
2684
2685 csharp
2686
2687 using OpenQA.Selenium;
2688
2689 public class ProductDetailsPage
2690 {
2691
         private IWebDriver driver;
2692
         public ProductDetailsPage(IWebDriver driver)
2693
2694
2695
             this.driver = driver;
2696
         }
2697
         public void VerifyProductDetailsPage()
2698
2699
              // Verifying the URL contains '/product_details/' and waiting >
2700
                for 2000 milliseconds
             Assert.Contains("/product_details/", driver.Url);
2701
2702
              System. Threading. Thread. Sleep (2000);
2703
         }
2704
         public void AddToCart()
2705
2706
              // Locating elements within '.col-sm-7' and interacting with
2707
              var quantityInput = driver.FindElement(By.CssSelector(".col-
2708
                sm-7 input#quantity"));
             var addToCartButton = driver.FindElement(By.CssSelector('.col- >
2709
                sm-7 button:contains("Add to cart")'));
2710
2711
              // Clearing the quantity input and typing '30'
2712
              quantityInput.Clear();
2713
              quantityInput.SendKeys("30");
2714
2715
              // Clicking on 'Add to cart' and waiting for 1000 milliseconds
2716
              addToCartButton.Click();
2717
              System. Threading. Thread. Sleep (1000);
2718
             // Verifying that the product has been added to the cart
2719
2720
             Assert.Contains("Your product has been added to cart",
                driver.PageSource);
2721
              // Locating elements by ID and containing text to interact
2722
                with them
             var cartModal = driver.FindElement(By.Id("cartModal"));
2723
```

```
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```

```
63
```

```
2724
             var viewCartButton = cartModal.FindElement(By.CssSelector
               ('#cartModal [data-target="#viewCart"]'));
2725
             // Verifying the presence of elements and clicking on 'View
2726
               Cart'
2727
             viewCartButton.Click();
         }
2728
2729
2730
         // Add other methods related to the Product Details Page
2731 }
2732
2733 Note: Ensure to update the locator strategies based on your
                                                                              P
       application's HTML structure. This example uses a
                                                                              P
       hypothetical :contains CSS selector; you may need to adjust this
                                                                              P
       depending on the actual structure of your web page. Additionally,
                                                                              P
       explicit waits or other synchronization methods should be considered >
        for a more robust test.
2734 User
2735 excellent
2736
2737 this now i can be sure it will work similarily nice
2738
2739 Çclass RegistrationPage {
2740
         seeTheUrl(){
             cy.url().should('include', '/login');
2741
2742
         fillRegistrationForm(firstName, lastName, email) {
2743
2744
         // Assuming it's not in an iframe, you can try waiting for the
           element to exist
2745
         cy.get('[data-qa="signup-name"]', { timeout: 10000 }).should
           ('exist').type(firstName + ' ' + lastName);
2746
         cy.wait(1000);
2747
         cy.get('[data-qa="signup-email"]').type(email);
2748
         cy.wait(1000);
2749
         cy.contains('button', 'Signup').click();
2750 }
2751
       }
2752
2753
       export default new RegistrationPage();
2754
2755
2756 ChatGPT
2757
2758 Here's the equivalent C# code for the RegistrationPage class:
2759
2760 csharp
2761
2762 using OpenQA.Selenium;
2763
2764 public class RegistrationPage
2765 {
         private IWebDriver driver;
2766
2767
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
64
```

```
2768
         public RegistrationPage(IWebDriver driver)
2769
         {
2770
             this.driver = driver;
         }
2771
2772
         public void SeeTheUrl()
2773
2774
2775
             // Verifying the URL contains '/login'
2776
             Assert.Contains("/login", driver.Url);
         }
2777
2778
2779
         public void FillRegistrationForm(string firstName, string
           lastName, string email)
         {
2780
2781
             // Assuming it's not in an iframe, you can try waiting for the >
                element to exist
2782
             var signupNameInput = driver.FindElement(By.CssSelector
                ('[data-qa="signup-name"]'));
             var signupEmailInput = driver.FindElement(By.CssSelector
2783
                ('[data-qa="signup-email"]'));
2784
             var signupButton = driver.FindElement(By.XPath('//button
                [contains(text(), "Signup")]'));
2785
             // Waiting for the element to exist and typing the first name
2786
               and last name
2787
             var wait = new WebDriverWait(driver, TimeSpan.FromSeconds
                (10));
2788
             wait.Until(ExpectedConditions.ElementExists(signupNameInput));
2789
             signupNameInput.SendKeys(firstName + ' ' + lastName);
2790
2791
             // Typing the email and waiting for 1 second
2792
             signupEmailInput.SendKeys(email);
2793
             System. Threading. Thread. Sleep(1000);
2794
2795
             // Clicking on the 'Signup' button
2796
             signupButton.Click();
         }
2797
2798 }
2799
2800 This C# implementation utilizes the Selenium WebDriver for interacting >
        with the browser. Ensure to adjust the locator strategies based on 🤝
       your application's HTML structure, and consider using explicit waits >
        or other synchronization methods for a more reliable test.
2802 now i am learning. if we keep like this i can go bed and rest. i am
                                                                              P
       nine minutes to midnight. let us do the four final codes and go to
       shut down the dream machine
2803
2804 import faker from 'faker';
2805
2806 class SignupPage
2807 {
         fillSignupForm(firstName, lastName, address, state, city, zipcode, >
2808
```

```
mobileNumber)
         {
2809
2810
             // Function to generate a random date within a given range
             function getRandomDate(minYear, maxYear)
2811
2812
                  const year = Math.floor(Math.random() * (maxYear - minYear >
2813
                     + 1)) + minYear;
2814
                  const month = Math.floor(Math.random() * 12) + 1; //
                    Months are 1-12
2815
                  const daysInMonth = new Date(year, month, 0).getDate();
                  const day = Math.floor(Math.random() * daysInMonth) +
2816
                    1; // Days are 1 to the last day of the month
2817
                  return { year, month, day };
             }
2818
2819
             // Example usage
2820
             const minYear = 1980;
2821
2822
             const maxYear = 2000;
             const randomDate = getRandomDate(minYear, maxYear);
2823
2824
2825
             const randomPassword = faker.internet.password(); // Generate >>
               a random password
2826
2827
             cy.get('[data-qa="days"]').select(randomDate.day.toString());
2828
             cy.get('[data-qa="months"]').select(randomDate.month.toString
2829
                ());
2830
             cy.get('[data-qa="years"]').select(randomDate.year.toString
               ());
2831
2832
             cy.get('#newsletter').check();
             cy.get('#optin').check();
2833
             cy.get('[data-qa="first_name"]').type(firstName);
2834
             cy.get('[data-qa="last_name"]').type(lastName);
2835
2836
             cy.get('[data-qa="company"]').type('Example Company');
             cy.get('[data-qa="address"]').type(address);
2837
             cy.get('[data-qa="address2"]').type('Apt 45');
2838
              cy.get('[data-qa="country"]').select('United States');
2839
2840
             cy.wait(2000);
2841
             cy.get('[data-qa="state"]').type(state);
             cy.get('[data-qa="city"]').type(city);
2842
2843
             cy.get('[data-qa="zipcode"]').type(zipcode);
2844
             cy.get('[data-qa="mobile_number"]').type(mobileNumber);
2845
             cy.get('[data-qa="password"]').type(randomPassword); // Type
               the generated password
2846
             cy.get('[data-qa="create-account"]').click();
2847
             cy.wait(5000);
2848
             cy.get('[data-qa="account-created"]').should('exist');
         }
2849
2850 }
2851
2852 export default new SignupPage();
2853 ChatGPT
```

```
2854
2855 Here's the equivalent C# code for the SignupPage class:
2856
2857 csharp
2858
2859 using OpenQA.Selenium;
2860 using OpenQA.Selenium.Support.UI;
2861
2862 public class SignupPage
2863 {
2864
         private IWebDriver driver;
2865
2866
         public SignupPage(IWebDriver driver)
2867
             this.driver = driver;
2868
         }
2869
2870
2871
         public void FillSignupForm(string firstName, string lastName,
           string address, string state, string city, string zipcode, string>
            mobileNumber)
2872
         {
             // Function to generate a random date within a given range
2873
             DateTime randomDate = GetRandomDate(1980, 2000);
2874
2875
2876
             // Example usage
2877
             var randomPassword = Faker.Internet.Password(); // Generate a >>
               random password
2878
2879
             // Selecting values in your Selenium C# test
             SelectDropdownByValue(driver.FindElement(By.CssSelector
2880
                ('[data-qa="days"]')), randomDate.Day.ToString());
2881
             SelectDropdownByValue(driver.FindElement(By.CssSelector
                ('[data-qa="months"]')), randomDate.Month.ToString());
             SelectDropdownByValue(driver.FindElement(By.CssSelector
2882
                                                                              P
               ('[data-qa="years"]')), randomDate.Year.ToString());
2883
2884
             driver.FindElement(By.Id("newsletter")).Click();
             driver.FindElement(By.Id("optin")).Click();
2885
2886
             driver.FindElement(By.CssSelector('[data-
               qa="first_name"]')).SendKeys(firstName);
             driver.FindElement(By.CssSelector('[data-
2887
               qa="last_name"]')).SendKeys(lastName);
2888
             driver.FindElement(By.CssSelector('[data-
               qa="company"]')).SendKeys("Example Company");
2889
             driver.FindElement(By.CssSelector('[data-
               qa="address"]')).SendKeys(address);
2890
             driver.FindElement(By.CssSelector('[data-
               qa="address2"]')).SendKeys("Apt 45");
             SelectDropdownByVisibleText(driver.FindElement(By.CssSelector
2891
                ('[data-qa="country"]')), "United States");
2892
              System.Threading.Thread.Sleep(2000);
             driver.FindElement(By.CssSelector('[data-
2893
                                                                              P
               qa="state"]')).SendKeys(state);
```

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                                                                              67
2894
             driver.FindElement(By.CssSelector('[data-
                ga="city"]')).SendKeys(city);
2895
             driver.FindElement(By.CssSelector('[data-
               qa="zipcode"]')).SendKeys(zipcode);
2896
             driver.FindElement(By.CssSelector('[data-
               qa="mobile_number"]')).SendKeys(mobileNumber);
2897
             driver.FindElement(By.CssSelector('[data-
               qa="password"]')).SendKeys(randomPassword); // Type the
               generated password
2898
             driver.FindElement(By.CssSelector('[data-qa="create-
               account"]')).Click();
             System. Threading. Thread. Sleep (5000);
2899
2900
             Assert.True(driver.FindElement(By.CssSelector('[data-
               qa="account-created"]')).Displayed);
         }
2901
2902
         private DateTime GetRandomDate(int minYear, int maxYear)
2903
2904
             Random random = new Random();
2905
             int year = random.Next(minYear, maxYear + 1);
2906
2907
             int month = random.Next(1, 13);
             int day = random.Next(1, DateTime.DaysInMonth(year, month) +
2908
               1);
2909
             return new DateTime(year, month, day);
2910
         }
2911
         private void SelectDropdownByValue(IWebElement dropdown, string
2912
           value)
         {
2913
2914
             var selectElement = new SelectElement(dropdown);
2915
              selectElement.SelectByValue(value);
         }
2916
2917
2918
         private void SelectDropdownByVisibleText(IWebElement dropdown,
           string visibleText)
         {
2919
2920
             var selectElement = new SelectElement(dropdown);
2921
             selectElement.SelectByText(visibleText);
         }
2922
2923 }
2924
2925 This C# implementation uses the Selenium WebDriver for interacting
       with the browser. Note that the sleep intervals may need to be
       adjusted based on your application's behavior and responsiveness.
2926 User
2927 this is other similar i want
2928
2929 class AccountCreatedPage
2930 {
         validateAccountCreated()
2931
2932
              // Validate the URL contains '/account_created'
2933
             cy.url().should('include', '/account_created');
2934
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
2935
              cy.wait(2000);
2936
2937
             // Validate the presence of 'Congratulations!' text
             cy.contains('Congratulations!').should('exist');
2938
2939
             // Subscribe with a random email
2940
2941
             cv.get('#subscribe').click();
2942
              cy.get('#success-subscribe').should('exist');
2943
             cy.get('[data-qa="continue-button"]').click();
2944
2945
             // Main page and Cart navigation
             // cy.url().should('include', '/');
2946
2947
             cy.wait(2000);
         }
2948
2949 }
2950
2951 export default new AccountCreatedPage();
2952
2953 ChatGPT
2954
2955 Here's the equivalent C# code for the AccountCreatedPage class:
2956
2957 csharp
2958
2959 using OpenQA.Selenium;
2960
2961 public class AccountCreatedPage
2962 {
2963
         private IWebDriver driver;
2964
2965
         public AccountCreatedPage(IWebDriver driver)
2966
         {
2967
              this.driver = driver;
         }
2968
2969
2970
         public void ValidateAccountCreated()
2971
              // Validate the URL contains '/account_created'
2972
2973
             Assert.True(driver.Url.Contains("/account_created"));
2974
             // Validate the presence of 'Congratulations!' text
2975
2976
             Assert.True(driver.FindElement(By.XPath("//*[contains(text(), >
                'Congratulations!')]")).Displayed);
2977
             // Subscribe with a random email
2978
2979
             driver.FindElement(By.Id("subscribe")).Click();
             Assert.True(driver.FindElement(By.Id("success-
2980
                subscribe")).Displayed);
             driver.FindElement(By.CssSelector("[data-qa='continue-
2981
               button']")).Click();
2982
             // Main page and Cart navigation
2983
2984
             // driver.Url should be validated in the test, uncomment the
```

```
line below if needed
2985
              // Assert.True(driver.Url.Contains("/"));
2986
             System. Threading. Thread. Sleep (2000);
2987
2988
         }
2989 }
2990
2991 Please note that the exact selectors and methods used for validation
       might need to be adjusted based on your specific application's
       structure and behavior. Also, the sleep interval may need adjustment >
        based on the application's responsiveness.
2992 User
2993 this other
2994
2995 class OrderPlacedPage
2996 {
2997
         verifyOrderPlacedPage()
2998
2999
3000
             cy.url().should('include', 'payment_done');
         }
3001
3002
         downloadInvoice()
3003
3004
              cy.contains('Download Invoice').click();
3005
3006
              cy.wait(2000);
         }
3007
3008
3009
         continueShopping()
3010
              // Find and click the "Continue" button by its text
3011
             cy.contains('Continue').click();
3012
3013
              cy.wait(2000);
         }
3014
3015
3016
         // Add other methods related to the Order Placed Page
3017 }
3018
3019 export default new OrderPlacedPage();
3020
3021
3022 and
3023
3024 class AccountCreatedPage
3025 {
         validateAccountCreated()
3026
3027
3028
              // Validate the URL contains '/account_created'
              cy.url().should('include', '/account_created');
3029
3030
             cy.wait(2000);
3031
             // Validate the presence of 'Congratulations!' text
3032
              cy.contains('Congratulations!').should('exist');
3033
```

```
3034
3035
             // Subscribe with a random email
3036
             cy.get('#subscribe').click();
             cy.get('#success-subscribe').should('exist');
3037
3038
             cy.get('[data-qa="continue-button"]').click();
3039
3040
             // Main page and Cart navigation
3041
             // cy.url().should('include', '/');
3042
             cy.wait(2000);
         }
3043
3044 }
3045
3046 export default new AccountCreatedPage();
3047
3048
3049 with
3050
3051 class OrderPlacedPage
3052 {
3053
         verifyOrderPlacedPage()
3054
3055
              cy.url().should('include', 'payment_done');
3056
         }
3057
3058
         downloadInvoice()
3059
3060
3061
             cy.contains('Download Invoice').click();
3062
              cy.wait(2000);
         }
3063
3064
3065
         continueShopping()
3066
3067
             // Find and click the "Continue" button by its text
3068
              cy.contains('Continue').click();
3069
              cy.wait(2000);
         }
3070
3071
3072
         // Add other methods related to the Order Placed Page
3073 }
3074
3075 export default new OrderPlacedPage();
3076
3077
3078 PLS do
3079 tks
3080 ChatGPT
3081
3082 Sure, here is the equivalent C# code for the OrderPlacedPage and
       AccountCreatedPage classes:
3083
3084 csharp
3085
```

```
3086 using OpenQA.Selenium;
3087
3088 public class OrderPlacedPage
3089 {
3090
         private IWebDriver driver;
3091
3092
         public OrderPlacedPage(IWebDriver driver)
3093
          {
3094
              this.driver = driver;
3095
         }
3096
         public void VerifyOrderPlacedPage()
3097
3098
3099
              // Validate the URL contains 'payment_done'
3100
              Assert.True(driver.Url.Contains("payment_done"));
         }
3101
3102
3103
         public void DownloadInvoice()
3104
3105
              driver.FindElement(By.LinkText("Download Invoice")).Click();
3106
              System. Threading. Thread. Sleep (2000);
         }
3107
3108
         public void ContinueShopping()
3109
3110
              // Find and click the "Continue" button by its text
3111
              driver.FindElement(By.LinkText("Continue")).Click();
3112
3113
              System. Threading. Thread. Sleep (2000);
3114
         }
         // Add other methods related to the Order Placed Page
3115
3116 }
3117
3118 csharp
3119
3120 using OpenQA.Selenium;
3121
3122 public class AccountCreatedPage
3123 {
3124
         private IWebDriver driver;
3125
         public AccountCreatedPage(IWebDriver driver)
3126
3127
3128
              this.driver = driver;
3129
         }
3130
         public void ValidateAccountCreated()
3131
3132
3133
              // Validate the URL contains '/account_created'
              Assert.True(driver.Url.Contains("/account_created"));
3134
3135
              // Validate the presence of 'Congratulations!' text
3136
              Assert.True(driver.FindElement(By.XPath("//*[contains(text(), >
3137
                'Congratulations!')]")).Displayed);
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                                                                                        72
3138
3139
                        // Subscribe with a random email
3140
                        driver.FindElement(By.Id("subscribe")).Click();
                        Assert.True(driver.FindElement(By.Id("success-
3141
                            subscribe")).Displayed);
                        driver.FindElement(By.CssSelector("[data-qa='continue-
3142
                           button']")).Click();
3143
3144
                        // Main page and Cart navigation
3145
                        // driver.Url should be validated in the test, uncomment the
                           line below if needed
                        // Assert.True(driver.Url.Contains("/"));
3146
3147
3148
                        System. Threading. Thread. Sleep (2000);
                 }
3149
3150 }
3151
3152 Make sure to adapt the selectors and methods based on your specific
             application's structure and behavior. Additionally, adjust the sleep >
               intervals based on the application's responsiveness.
3153 User
3154 now you can create a small final table in md with formatting to remark >
               all the knowledge adquired in pom, selenium, the links and search
             by options, the most important data structures and the best
                                                                                                                                          P
             practices in look by look for and cycles so it is a final table to
                                                                                                                                         P
             memorize all concepts from this conveersaron in something i can also →
              ridiculously can i save to even CSV JSON and XML formated tittle
                                                                                                                                         P
             nested algorithmically beautiful data to move onto the new
                                                                                                                                         P
             experience: THe DAta Preparation For Tests and Test reporting tools
             in CI CD to go sleep finally
3155 ChatGPT
3156
3157 Certainly! Here's a summary table capturing key concepts discussed in →
             this conversation:
3158 Category
                               Key Concepts
3159 Page Object Model (POM) - Dividing web pages into classes
             (PageObjects)<br>− Encapsulating web page interactions<br>− Improved >>
               maintainability
3160 Selenium WebDriver - Browser automation<br/>
- Navigating to URLs<br/>
- Prowser automation<br/>
- Prowser automation
             Locating elements with CSS and XPath selectors
3161 Data-Driven Testing - Using Faker.js for generating random data<br>-
             Dynamic input generation based on test requirements
3162 C# Selenium Boilerplate - Setting up Selenium WebDriver in C#<br/>br>-
             Handling implicit waits<br>- Navigating to a website
3163 Regex Usage - Applying regular expressions in C# to extract
             information from web pages
                                                                   - Converting JavaScript code to C# for >
3164 JavaScript to C# Translation
               Selenium WebDriver automation
                                            - Using meaningful variable names<br>- Waiting for >
3165 Testing Practices
               elements to exist<br/>br>- Writing clean and modular test code
3166 Cucumber and Reporting - Integration with Cucumber and HTML reporting >
               libraries<br>- Structuring tests in a BDD format
3167 CI/CD Integration - Configuring CI/CD for test automation<br/>
dr>- Best →
```

	maintain.	
321	9 Data Structures - Arrays: Ordered collection of elements accessed by	P
	an index.	
322	Lists: Dynamic arrays that can grow or shrink in size.	
322	· ·	P
	structure.	
322	2 - Stacks: Collection of elements with a LIFO (Last-In-First-Out) structure.	P
322	J 4- 0-5 0 1 - 5 1	P
322	insertions and deletions.	
322	 Trees: Hierarchical structures with nodes and branches. 	
322	5 - Graphs: Collection of nodes connected by edges.	
322	6 Multi-Nested Structures - Nested Arrays: Arrays within arrays,	P
	providing multi-dimensional data storage.	
322		P
322	hierarchical structures.	•
322		₽
322	organization of complex data.	
วาา	· · · · · · · · · · · · · · · · · · ·	
322	 Nested Loops: Utilizing loops within loops for iterating through multi-dimensional structures. 	4
222		
323	· ·	P
	controlling browser sessions.	
323		7
	class name, XPath).	
323	· · · · · · · · · · · · · · · · · · ·	7
	<pre>met (e.g., explicit, implicit waits).</pre>	
323		7
	(e.g., text, buttons, dropdowns).	
323		7
	execution of tests (e.g., setup, teardown, before, after).	
323	5 Testing a REST Service - Scenario: Consider a Dungeons and Dragons	7
	product cart API.	
323	 Tools: Utilize C# libraries for API testing, such as RestSharp. 	
323	7 - Integration: Create an integrated project with HTML/Selenium	P
	tests for the UI and C# tests for the API.	
323	 Assertions: Verify UI actions and API responses for consistency. 	
323		P
	teardown for API endpoints.	,
324	· ·	P
32 1	testing.	
324		P
324	development tools and services for CI/CD, version control, and	P
	·	-
22/1	project management.	_
324		P
	deployment to various platforms.	
324		P
	tracking, and discussing work across teams.	
324		P
	private repositories.	
324	5	
324	6 -Azure Artifacts: Package management service for Maven, npm,	P
	Python, and NuGet packages.	
324	7 - Azure Test Plans: Test management tool for planning, tracking,	P

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
76
```

```
and testing applications.
3248
         - GitHub Actions: CI / CD and automation directly integrated into
           GitHub repositories.
         - Jenkins X: Cloud - native CI / CD automation tool built for
3249
                                                                          P
           Kubernetes environments.
3250
3251 This extended table covers a broader range of topics, including
       Selenium concepts, API testing, and how to adapt the example to a
                                                                          P
       real-life scenario involving a REST service. If you have further
       questions or need additional information, feel free to ask!
3252 User
3253 attempt to reconstruct the test for this part of a cart
3254
3255 in c sharp and then we go a cart page to checkout similar to above now →
        different code
3256
3257 <nav id="top">
3258
       <div class= "container" >< div class= "pull-left" >
3259
       < form action = "http://opencart.abstracta.us:80/index.php?</pre>
         route=common/currency/currency" method = "post" enctype =
         "multipart/form-data" id = "form-currency" >
3260
         < div class= "btn-group" >
           < button class= "btn btn-link dropdown-toggle" data - toggle =</pre>
3261
             "dropdown" >
                                                      < strong >$</ strong>
                      < span class= "hidden-xs hidden-sm hidden-md" >
             Currency </ span > &nbsp;< i class= "fa fa-caret-down" ></ i
             ></ button >
3262
           3263
                            3264
               < button class= "currency-select btn btn-link btn-block"
                 type = "button" name = "EUR" >€ Euro </ button >
             3265
3266
                                    < button class= "currency-select btn btn-link btn-block"
3267
                type = "button" name = "GBP" >£ Pound Sterling</button>
             3268
3269
                                    <
3270
               <button class= "currency-select btn btn-link btn-block" type →</pre>
                 = "button" name = "USD" >$ US Dollar</button>
3271
             3272
                          </div>
3273
3274
         <input type = "hidden" name= "code" value= "" >
3275
         < input type= "hidden" name= "redirect" value= "http://</pre>
           opencart.abstracta.us:80/index.php?route=checkout/cart" >
3276
       </ form >
3277 </ div >
3278
3279
3280
         < div id= "top-links" class= "nav pull-right" >
3281
           3282
3283
             < a href = "http://opencart.abstracta.us/index.php?
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                        77
              route=information/contact" >< i class= "fa fa-phone" ></ i
                                                                         P
              ></ a > < span class= "hidden-xs hidden-sm hidden-md" >
                                                                         P
              123456789 </ span >
             < a href = "https://
3284
              opencart.abstracta.us/index.php?route=account/account" title
               = "My Account" class= "dropdown-toggle" data - toggle =
                                                                         P
               "dropdown" >< i class= "fa fa-user" ></ i > < span class=
                                                                         P
               "hidden-xs hidden-sm hidden-md" > My Account </ span > <
                                                                         P
              span class= "caret" ></ span ></ a >
3285
              < a href = "https://
3286
                      opencart.abstracta.us/index.php?route=account/
                      register" > Register </ a >
                < a href = "https://opencart.abstracta.us/index.php? >
3287
                  route=account/login" > Login </ a >
3288
                          3289
            3290
            < a href = "https://opencart.abstracta.us/index.php?</pre>
              route=account/wishlist" id = "wishlist-total" title = "Wish
              List (0)" >< i class= "fa fa-heart" ></ i > < span class=
              "hidden-xs hidden-sm hidden-md" > Wish List(0) </ span ></ a >
               >
            < a href = "http://opencart.abstracta.us/index.php?
3291
              route=checkout/cart" title = "Shopping Cart" >< i class= "fa →
               fa-shopping-cart" ></ i > < span class= "hidden-xs hidden-</pre>
              sm hidden-md" > Shopping Cart </ span ></ a >
            < a href = "https://opencart.abstracta.us/index.php?
3292
              route=checkout/checkout" title = "Checkout" >< i class= "fa</pre>
              fa-share" ></ i > < span class= "hidden-xs hidden-sm hidden- →
              md" > Checkout </ span ></ a >
3293
           3294
         </ div >
3295
       </ div >
3296 </ nav >
3297 < header >
       < div class= "container" >
3298
3299
         < div class= "row" >
           < div class= "col-sm-4" >
3300
3301
             < div id = "logo" >
                                        < h1 >< a href = "http://
              opencart.abstracta.us/index.php?route=common/home" > Your
              Store </ a ></ h1 >
3302
              </ div >
3303
           </ div >
3304
           < div class= "col-sm-5" >< div id = "search" class= "input-</pre>
            group" >
       < input type = "text" name = "search" placeholder = "Search" class=</pre>
3305
         "form-control input-lg" >
3306
       < span class= "input-group-btn" >
         < button type = "button" class= "btn btn-default btn-lg" >< i
3307
          class= "fa fa-search" ></ i ></ button >
3308
       </ span >
3309 </ div ></ div >
3310
           < div class= "col-sm-3" >< div id = "cart" class= "btn-group</pre>
```

```
btn-block" >
3311
       < button type = "button" data - toggle = "dropdown" data - loading - →
         text = "Loading..." class= "btn btn-inverse btn-block btn-lg
        dropdown-toggle" >< i class= "fa fa-shopping-cart" ></ i > < span →
        id = "cart-total" > 0 item(s) - $0.00 </ span ></ button >
      3312
3313
3314
           Your shopping cart is empty!
3315
        3316
          3317 </div>
3318 </div>
3319
        </div>
3320
       </div>
3321 </header>
3322 <div class= "container" >
       < nav id = "menu" class= "navbar" >
3323
3324
        < div class= "navbar-header" >< span id = "category" class=</pre>
          "visible-xs" > Categories </ span >
3325
          < button type = "button" class= "btn btn-navbar navbar-toggle"</pre>
            data - toggle = "collapse" data - target = ".navbar-ex1-
            collapse" >< i class= "fa fa-bars" ></ i ></ button >
        </ div >
3326
        < div class= "collapse navbar-collapse navbar-ex1-collapse" >
3327
3328
          3329
                           < a href = "http://
                     opencart.abstracta.us/index.php?route=product/
                     category&path=20" class= "dropdown-toggle" data →
                      toggle = "dropdown" > Desktops </ a >
              < div class= "dropdown-menu" style = "" >
3330
3331
                < div class= "dropdown-inner" >
                                                          < ul class= →
                  "list-unstyled" >
3332
                                  < a href = "http://
                                                                      P
                     opencart.abstracta.us/index.php?route=product/
                     category&path=20_26" > PC(0) </ a >
                                  < a href = "http://
3333
                                                                       P
                     opencart.abstracta.us/index.php?route=product/
                                                                      P
                     category&path=20_27" > Mac(1) </ a >
3334
                                3335
                  </ div >
                < a href = "http://opencart.abstracta.us/index.php?</pre>
3336
                  route=product/category&path=20" class= "see-all" >
                  Show All Desktops</a> </div>
            3337
3338
                                  class= "dropdown" >< a href =</li>
                                                                      P
                     "http://opencart.abstracta.us/index.php?
                     route=product/category&path=18" class= "dropdown->
                     toggle" data - toggle = "dropdown" > Laptops & amp;
                     Notebooks </ a >
              < div class= "dropdown-menu" style = "" >
3339
                < div class= "dropdown-inner" >
3340
                                                          < ul class=
                  "list-unstyled" >
3341
                                  < a href = "http://
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                     79
                     opencart.abstracta.us/index.php?route=product/
                     category&path=18_46" > Macs(0) </ a >
3342
                                  < a href = "http://
                                                                      P
                     opencart.abstracta.us/index.php?route=product/
                                                                      P
                     category&path=18_45" > Windows(0) </ a >
3343
                                </ div >
3344
3345
               < a href = "http://opencart.abstracta.us/index.php?</pre>
                 route=product/category&path=18" class= "see-all" >
                 Show All Laptops & Dotebooks </ a > </ div >
3346
            < a href =
3347
                                                                      P
                     "http://opencart.abstracta.us/index.php?
                     route=product/category&path=25" class= "dropdown->
                     toggle" data - toggle = "dropdown" > Components </ a →
3348
              < div class= "dropdown-menu" style = "" >
3349
               < div class= "dropdown-inner" >
                                                          < ul class=
                 "list-unstyled" >
3350
                                  < a href = "http://
                     opencart.abstracta.us/index.php?route=product/
                                                                      P
                     category&path=25_29" > Mice and Trackballs(0)</ a>
                      >
                                  < a href = "http://
3351
                                                                      P
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_28" > Monitors(2) </ a >
                                  < a href = "http://
3352
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_30" > Printers(0) </ a >
                                  < a href = "http://
3353
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_31" > Scanners(0) </ a >
3354
                                  < a href = "http://
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_32" > Web Cameras(0) </ a >
                      >
                                3355
                 </ div >
3356
3357
               < a href = "http://opencart.abstracta.us/index.php?</pre>
                 route=product/category&path=25" class= "see-all" >
                 Show All Components</a> </div>
3358
            3359
                                  <a href = "http://</p>
                     opencart.abstracta.us/index.php?route=product/
                     category&path=57" > Tablets </ a >
3360
                                  < a href= "http://
                     opencart.abstracta.us/index.php?route=product/
                     category&path=17" > Software </ a >
3361
                                  < a href= "http://
                                                                      P
                     opencart.abstracta.us/index.php?route=product/
                                                                      P
                     category&path=24" > Phones & amp; PDAs </ a ></</pre>
                     li >
3362
                                  < a href = "http://
```

```
opencart.abstracta.us/index.php?route=product/
                                                                  P
                    category&path=33" > Cameras </ a >
3363
                                < a href =
                                                                  P
                    "http://opencart.abstracta.us/index.php?
                                                                  P
                    route=product/category&path=34" class= "dropdown->
                    toggle" data - toggle = "dropdown" > MP3 Players </ a>
3364
             < div class= "dropdown-menu" style = "margin-left: -210px;"</pre>
               < div class= "dropdown-inner" >
3365
                                                       < ul class=
                 "list-unstyled" >
                                < a href = "http://
3366
                                                                  P
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_43" > test 11(0) </ a >
3367
                                < a href = "http://
                                                                  P
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_44" > test 12(0) </ a >
3368
                                < a href = "http://
                    opencart.abstracta.us/index.php?route=product/
                                                                  P
                    category&path=34_47" > test 15(0) </ a >
3369
                                < a href = "http://
                                                                  P
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_48" > test 16(0) </ a >
3370
                                < a href = "http://
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_49" > test 17(0) </ a >
                              3371
3372
                            < a href = "http://
3373
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_50" > test 18(0) </ a >
3374
                                < a href = "http://
                                                                  P
                    opencart.abstracta.us/index.php?route=product/
                                                                  P
                    category&path=34_51" > test 19(0) </ a >
3375
                                < a href = "http://
                                                                  P
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_52" > test 20(0) </ a >
3376
                                < a href = "http://
                                                                  P
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_53" > test 21(0) </ a >
3377
                                < a href = "http://
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_54" > test 22(0) </ a >
3378
                              3379
                             3380
                                < a href = "http://
                                                                  P
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_55" > test 23(0) </ a >
                                < a href = "http://
3381
                                                                  P
                    opencart.abstracta.us/index.php?route=product/
                    category&path=34_56" > test 24(0) </ a >
3382
                                < a href = "http://
                    opencart.abstracta.us/index.php?route=product/
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                    81
                     category&path=34_38" > test 4(0) </ a >
3383
                                  < a href = "http://
                                                                     P
                     opencart.abstracta.us/index.php?route=product/
                                                                     P
                     category&path=34_37" > test 5(0) </ a >
3384
                                  < a href = "http://
                                                                     P
                     opencart.abstracta.us/index.php?route=product/
                                                                     P
                     category&path=34_39" > test 6(0) </ a >
                                3385
3386
                              3387
                                  < a href = "http://
                                                                     P
                     opencart.abstracta.us/index.php?route=product/
                                                                     P
                     category&path=34_40" > test 7(0) </ a >
3388
                                  < a href = "http://
                                                                     P
                     opencart.abstracta.us/index.php?route=product/
                     category&path=34_41" > test 8(0) </ a >
                                  < a href = "http://
3389
                     opencart.abstracta.us/index.php?route=product/
                                                                     P
                     category&path=34_42" > test 9(0) </ a >
                                3390
                 </ div >
3391
               < a href = "http://opencart.abstracta.us/index.php?</pre>
3392
                 route=product/category&path=34" class= "see-all" >
                 Show All MP3 Players</a> </div>
3393
            3394
                        </div>
3395
3396
      </nav>
3397 </div>
3398
3399
3400
3401 <div id="error-not-found" class= "container" >
      3402
            < a href = "http://opencart.abstracta.us/index.php?
3403
             route=common/home" >< i class= "fa fa-home" ></ i ></ a ></
             li >
            < a href = "http://opencart.abstracta.us/index.php?
3404
              route=checkout/cart" > Shopping Cart </ a >
          3405
3406
      < div class= "row" >
3407
                   < div id = "content" class= "col-sm-12" >
3408
          < h1 > Shopping Cart </ h1 >
3409
           Your shopping cart is empty!
3410
          <div class= "buttons clearfix" >
            < div class= "pull-right" >< a href = "http://
3411
              opencart.abstracta.us/index.php?route=common/home" class=
              "btn btn-primary" > Continue </ a ></ div >
3412
          </ div >
          </ div >
3413
3414
        </ div >
3415 </ div >
```

3416 < footer >

< div class= "container" >

3417

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
82
```

```
3418
        < div class= "row" >
3419
               < div class= "col-sm-3" >
3420
           < h5 > Information </ h5 >
3421
           3422
                     < a href = "http://opencart.abstracta.us/
                                                                  P
                    index.php?route=information/
                    information&information_id=4" > About Us </ a ></p
                     li >
3423
                      < a href = "http://opencart.abstracta.us/
                                                                  P
                    index.php?route=information/
                                                                  P
                    information&information_id=6" > Delivery
                                                                  P
                    Information </ a >
3424
                      < a href = "http://opencart.abstracta.us/
                                                                  P
                    index.php?route=information/
                                                                   P
                    information&information_id=3" > Privacy Policy </>
√>
                     a >
3425
                      < a href = "http://opencart.abstracta.us/
                                                                  P
                    index.php?route=information/
                    information&information_id=5" > Terms & amp;
                                                                  P
                    Conditions </ a >
3426
                    3427
          </ div >
3428
               < div class= "col-sm-3" >
           < h5 > Customer Service </ h5 >
3429
3430
           3431
             < a href = "http://opencart.abstracta.us/index.php?
               route=information/contact" > Contact Us </ a >
3432
             < a href = "https://opencart.abstracta.us/index.php?
               route=account/return/add" > Returns </ a >
             < a href = "http://opencart.abstracta.us/index.php?
3433
               route=information/sitemap" > Site Map </ a >
           3434
3435
          </ div >
          < div class= "col-sm-3" >
3436
3437
           < h5 > Extras </ h5 >
           3438
             < a href = "http://opencart.abstracta.us/index.php?
3439
               route=product/manufacturer" > Brands </ a >
3440
             < a href = "https://opencart.abstracta.us/index.php?
               route=account/voucher" > Gift Certificates </ a >
             < a href = "https://opencart.abstracta.us/index.php?
3441
               route=affiliate/login" > Affiliate </ a >
3442
             < a href = "http://opencart.abstracta.us/index.php?
               route=product/special" > Specials </ a >
           3443
3444
          </ div >
          < div class= "col-sm-3" >
3445
3446
           < h5 > My Account </ h5 >
           3447
3448
             < a href = "https://opencart.abstracta.us/index.php?
               route=account/account" > My Account </ a >
3449
             < a href = "https://opencart.abstracta.us/index.php?
               route=account/order" > Order History </ a >
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
83
```

```
3450
               < a href = "https://opencart.abstracta.us/index.php?
                 route=account/wishlist" > Wish List </ a >
3451
               < a href = "https://opencart.abstracta.us/index.php?
                                                                            P
                 route=account/newsletter" > Newsletter </ a >
3452
             3453
           </ div >
         </ div >
3454
3455
         < hr >
3456
          Powered By < a href = "http://www.opencart.com/" > OpenCart >
           </ a >< br > Your Store @ 2024
3457
       </div>
3458 </footer>
3459 ChatGPT
3460
3461 Certainly! Below is an example of a C# Selenium test script that
       interacts with the provided HTML for a shopping cart page. This
       script uses the Selenium WebDriver and NUnit for testing:
3462
3463 csharp
3464
3465 using NUnit.Framework;
3466 using OpenQA.Selenium;
3467 using OpenQA.Selenium.Chrome;
3468
3469 public class ShoppingCartTests
3470 {
3471
         private IWebDriver driver;
3472
3473
         [SetUp]
3474
         public void Setup()
3475
3476
             // Set up the Chrome WebDriver
3477
             driver = new ChromeDriver();
             driver.Navigate().GoToUrl("http://opencart.abstracta.us/
3478
               index.php?route=checkout/cart");
3479
             driver.Manage().Window.Maximize();
         }
3480
3481
3482
         [Test]
3483
         public void VerifyShoppingCartIsEmpty()
3484
3485
             // Locate the shopping cart total element
3486
             IWebElement cartTotalElement = driver.FindElement(By.Id("cart- >
               total"));
3487
             // Assert that the shopping cart is empty
3488
             Assert.AreEqual("0 item(s) - $0.00", cartTotalElement.Text);
3489
3490
             // Locate the "Continue" button
3491
             IWebElement continueButton = driver.FindElement(By.CssSelector >
3492
               ("#content .buttons .pull-right a"));
3493
             // Click on the "Continue" button
3494
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
3495
             continueButton.Click();
3496
3497
             // Assert that the user is redirected to the home page
             Assert.AreEqual("Your Store", driver.Title);
3498
3499
         }
3500
         [TearDown]
3501
3502
         public void Teardown()
3503
3504
             // Close the browser after each test
             driver.Quit();
3505
         }
3506
3507 }
3508
3509 In this script:
3510
3511
         The SetUp method is used to initialize the WebDriver, navigate to
           the shopping cart page, and maximize the browser window.
         The VerifyShoppingCartIsEmpty method is a test case that verifies
3512
           if the shopping cart is empty and then clicks on the "Continue"
           button.
3513
         The TearDown method is used to close the browser after each test.
3514
3515 Make sure to install the necessary NuGet packages (Selenium.WebDriver, >
        Selenium.WebDriver.ChromeDriver, NUnit) to run this
       script.Adjustments may be needed based on the actual behavior and
                                                                           P
       structure of the web page.
3516
3517 This is a basic example, and you can extend it by adding more test
       cases or using other Selenium features based on your testing
       requirements.
3518 User
3519 extend me to click more and go to final cart look
3520
3521 wn-menu" style="">
                 <div class= "dropdown-inner" >
3522
                                                             < ul class=
                   "list-unstyled" >
3523
                                     < a href = "http://
                       opencart.abstracta.us/index.php?route=product/
                       category&path=18_46" > Macs(0) </ a >
3524
                                     < a href = "http://
                       opencart.abstracta.us/index.php?route=product/
                       category&path=18_45" > Windows(0) </ a >
3525
                                   </ div >
3526
                 < a href = "http://opencart.abstracta.us/index.php?</pre>
3527
                   route=product/category&path=18" class= "see-all" >
                   Show All Laptops & amp; Notebooks </ a > </ div >
             3528
3529
                                     < a href =</pre>
                                                                           P
                       "http://opencart.abstracta.us/index.php?
                       route=product/category&path=25" class= "dropdown->
                       toggle" data - toggle = "dropdown" > Components </ a >
```

```
< div class= "dropdown-menu" style = "" >
3530
               < div class= "dropdown-inner" >
3531
                                                         "list-unstyled" >
3532
                                  < a href = "http://
                                                                     P
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_29" > Mice and Trackballs(0)</a>
                      >
3533
                                  < a href = "http://
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_28" > Monitors(2) </ a >
                                  < a href = "http://
3534
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_30" > Printers(0) </ a >
3535
                                  < a href = "http://
                                                                     P
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_31" > Scanners(0) </ a >
3536
                                  < a href = "http://
                     opencart.abstracta.us/index.php?route=product/
                     category&path=25_32" > Web Cameras(0) </ a >
3537
                                </ div >
3538
               < a href = "http://opencart.abstracta.us/index.php?</pre>
3539
                 route=product/category&path=25" class= "see-all" >
                 Show All Components</a> </div>
            3540
3541
                                  <a href = "http://</p>
                     opencart.abstracta.us/index.php?route=product/
                     category&path=57" > Tablets </ a >
3542
                                  < a href= "http://
                     opencart.abstracta.us/index.php?route=product/
                     category&path=17" > Software </ a >
                                  < a href= "http://
3543
                                                                     P
                     opencart.abstracta.us/index.php?route=product/
                                                                     P
                     category&path=24" > Phones & amp; PDAs </ a >
                     li >
3544
                                  < a href = "http://
                                                                     P
                     opencart.abstracta.us/index.php?route=product/
                                                                     P
                     category&path=33" > Cameras </ a >
3545
                                  < a href =</pre>
                                                                     P
                     "http://opencart.abstracta.us/index.php?
                     route=product/category&path=34" class= "dropdown->
                     toggle" data - toggle = "dropdown" > MP3 Players </ a>
3546
              < div class= "dropdown-menu" style = "margin-left: -210px;"</pre>
3547
               < div class= "dropdown-inner" >
                                                         < ul class=
                 "list-unstyled" >
                                  < a href = "http://
3548
                     opencart.abstracta.us/index.php?route=product/
                     category&path=34_43" > test 11(0) </ a >
                                  < a href = "http://
3549
```

```
opencart.abstracta.us/index.php?route=product/
                   category&path=34_44" > test 12(0) </ a >
3550
                               < a href = "http://
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                                                                P
                   category&path=34_47" > test 15(0) </ a >
3551
                               < a href = "http://
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_48" > test 16(0) </ a >
                               < a href = "http://
3552
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_49" > test 17(0) </ a >
                             3553
3554
                            3555
                               < a href = "http://
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                                                                P
                   category&path=34_50" > test 18(0) </ a >
3556
                               < a href = "http://
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_51" > test 19(0) </ a >
3557
                               < a href = "http://
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_52" > test 20(0) </ a >
3558
                               < a href = "http://
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                                                                P
                   category&path=34_53" > test 21(0) </ a >
3559
                               < a href = "http://
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_54" > test 22(0) </ a >
3560
                             3561
                            3562
                               < a href = "http://
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_55" > test 23(0) </ a >
                               < a href = "http://
3563
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_56" > test 24(0) </ a >
                               < a href = "http://
3564
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_38" > test 4(0) </ a >
3565
                               < a href = "http://
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                                                                P
                   category&path=34_37" > test 5(0) </ a >
3566
                               < a href = "http://
                                                                P
                   opencart.abstracta.us/index.php?route=product/
                                                                P
                   category&path=34_39" > test 6(0) </ a >
3567
                             3568
3569
                               < a href = "http://
                   opencart.abstracta.us/index.php?route=product/
                   category&path=34_40" > test 7(0) </ a >
3570
                               < a href = "http://
                   opencart.abstracta.us/index.php?route=product/
                                                                P
                   category&path=34_41" > test 8(0) </ a >
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                        87
3571
                                   < a href = "http://
                                                                         P
                      opencart.abstracta.us/index.php?route=product/
                                                                         P
                      category&path=34_42" > test 9(0) </ a >
3572
                                 3573
                  </ div >
3574
                < a href = "http://opencart.abstracta.us/index.php?</pre>
                  route=product/category&path=34" class= "see-all" >
                  Show All MP3 Players</a> </div>
3575
             3576
                          </div>
3577
       </nav>
3578
3579 </div>
3580
3581
3582
3583 <div id="error-not-found" class= "container" >
3584
       3585
             < a href = "http://opencart.abstracta.us/index.php?</pre>
              route=common/home" >< i class= "fa fa-home" ></ i ></ a ></
3586
            < a href = "http://opencart.abstracta.us/index.php?</pre>
              route=checkout/cart" > Shopping Cart </ a >
3587
           < div class= "row" >
3588
                    < div id = "content" class= "col-sm-12" >
3589
           < h1 > Shopping Cart </ h1 >
3590
3591
            Your shopping cart is empty!
3592
           <div class= "buttons clearfix" >
            < div class= "pull-right" >< a href = "http://</pre>
3593
              opencart.abstracta.us/index.php?route=common/home" class=
              "btn btn-primary" > Continue </ a ></ div >
3594
           </ div >
          </ div >
3595
3596
         </ div >
3597 </ div >
3598 < footer >
3599
       < div class= "container" >
3600
         < div class= "row" >
3601
                < div class= "col-sm-3" >
            < h5 > Information </ h5 >
3602
3603
            3604
                       < a href = "http://opencart.abstracta.us/</pre>
                                                                         P
                      index.php?route=information/
                      information&information_id=4" > About Us </ a >
                       li >
                        < a href = "http://opencart.abstracta.us/</pre>
3605
                                                                         P
                      index.php?route=information/
                                                                         P
```

information&information_id=6" > Delivery

< a href = "http://opencart.abstracta.us/</pre>

information&information_id=3" > Privacy Policy

Information </ a >

index.php?route=information/

3606

P

```
a >
3607
                       < a href = "http://opencart.abstracta.us/</pre>
                                                                     P
                     index.php?route=information/
                                                                     P
                     information&information_id=5" > Terms & amp;
                                                                     P
                     Conditions </ a >
                     3608
          </ div >
3609
3610
                < div class= "col-sm-3" >
            < h5 > Customer Service </ h5 >
3611
3612
            < a href = "http://opencart.abstracta.us/index.php?</pre>
3613
                route=information/contact" > Contact Us </ a >
3614
              < a href = "https://opencart.abstracta.us/index.php?</pre>
                route=account/return/add" > Returns </ a >
3615
              < a href = "http://opencart.abstracta.us/index.php?</pre>
                route=information/sitemap" > Site Map </ a >
3616
            3617
          </ div >
          < div class= "col-sm-3" >
3618
3619
            < h5 > Extras </ h5 >
            3620
              < a href = "http://opencart.abstracta.us/index.php?</pre>
3621
                route=product/manufacturer" > Brands </ a >
              < a href = "https://opencart.abstracta.us/index.php?</pre>
3622
                route=account/voucher" > Gift Certificates </ a >
3623
              < a href = "https://opencart.abstracta.us/index.php?</pre>
                                                                     P
                route=affiliate/login" > Affiliate </ a >
              < a href = "http://opencart.abstracta.us/index.php?</pre>
3624
                route=product/special" > Specials </ a >
3625
            </ div >
3626
          < div class= "col-sm-3" >
3627
            < h5 > My Account </ h5 >
3628
            3629
3630
              < a href = "https://opencart.abstracta.us/index.php?</pre>
                route=account/account" > My Account </ a >
3631
              < a href = "https://opencart.abstracta.us/index.php?</pre>
                route=account/order" > Order History </ a >
              < a href = "https://opencart.abstracta.us/index.php?</pre>
3632
                route=account/wishlist" > Wish List </ a >
              < a href = "https://opencart.abstracta.us/index.php?</pre>
3633
                route=account/newsletter" > Newsletter </ a >
3634
            3635
          </ div >
        </ div >
3636
3637
         Powered By < a href = "http://www.opencart.com/" > OpenCart >
3638
          </ a >< br > Your Store @ 2024
3639
      </div>
3640 </footer>
3641 <!--
3642 ChatGPT
3643
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
89
```

```
3644 Certainly! I've extended the C# Selenium test script to include more
                                                                              P
       interactions with the provided HTML, navigating through different
                                                                              P
       categories and simulating a user's journey to the final cart look.
                                                                              P
       The script now clicks on various links in the navigation menu and
                                                                              P
       verifies if the cart is still empty. If the cart is empty, the
                                                                              P
       script continues to the next category. Here's the updated script:
3645
3646 csharp
3647
3648 using NUnit.Framework;
3649 using OpenQA.Selenium;
3650 using OpenQA.Selenium.Chrome;
3651
3652 public class ShoppingCartTests
3653 {
3654
         private IWebDriver driver;
3655
3656
         [SetUp]
         public void Setup()
3657
3658
3659
              // Set up the Chrome WebDriver
              driver = new ChromeDriver();
3660
              driver.Navigate().GoToUrl("http://opencart.abstracta.us/
3661
                index.php?route=checkout/cart");
3662
              driver.Manage().Window.Maximize();
         }
3663
3664
3665
         [Test]
3666
         public void NavigateAndAddToCart()
3667
3668
              // List of category links to navigate through
3669
              string[] categoryLinks = {
                  "http://opencart.abstracta.us/index.php?route=product/
3670
                                                                              P
                    category&path=20",
3671
                  "http://opencart.abstracta.us/index.php?route=product/
                    category&path=18",
                  "http://opencart.abstracta.us/index.php?route=product/
3672
                    category&path=25",
3673
                  "http://opencart.abstracta.us/index.php?route=product/
                    category&path=57",
3674
                  "http://opencart.abstracta.us/index.php?route=product/
                    category&path=17",
3675
                  "http://opencart.abstracta.us/index.php?route=product/
                    category&path=24",
3676
                  "http://opencart.abstracta.us/index.php?route=product/
                    category&path=33",
                  "http://opencart.abstracta.us/index.php?route=product/
3677
                    category&path=34"
             };
3678
3679
             foreach (var categoryLink in categoryLinks)
3680
              {
3681
3682
                  // Navigate to the category
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                             90
3683
                  driver.Navigate().GoToUrl(categoryLink);
3684
                  // Check if the shopping cart is empty
3685
                  IWebElement cartTotalElement = driver.FindElement(By.Id
3686
                    ("cart-total"));
3687
                  Assert.AreEqual("0 item(s) - $0.00",
                                                                              P
                    cartTotalElement.Text);
3688
3689
                  // Click on the first product in the category (you may
                    need to adjust this based on the actual structure)
                  IWebElement productLink = driver.FindElement
3690
                    (By.CssSelector(".product-layout:first-child .button-
                    group button"));
                  productLink.Click();
3691
3692
                  // Wait for the product to be added to the cart (you may
3693
                    need to adjust the wait)
3694
                  System. Threading. Thread. Sleep (2000);
3695
3696
                  // Verify if the cart is not empty now
                  Assert.AreNotEqual("0 item(s) - $0.00",
3697
                    cartTotalElement.Text);
3698
                  // Continue shopping or perform additional verifications
3699
                    as needed
             }
3700
         }
3701
3702
3703
         [TearDown]
         public void Teardown()
3704
3705
              // Close the browser after the test
3706
3707
              driver.Ouit();
         }
3708
3709 }
3710
3711 This script iterates through different categories, clicks on the first >
        product's "Add to Cart" button, waits for a short duration, and
       then verifies if the cart is not empty. Adjustments may be required
       based on the actual structure of the web page and the behavior of
       the application.
3712 User
3713 let us reconstruct from here and also add modularized explanation in
                                                                              P
       code and in a similar table all the concepts for istqb best
       practices implemented in the test of the below final exam code
3714
3715
3716 reconstruct
3717
3718
                  <div class= "form-group required " >
                    < label class= "control-label" > File </ label >
3719
                    < button type = "button" id = "button-upload222" data - 🤝
3720
                      loading - text = "Loading..." class= "btn btn-default
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
91
```

```
btn-block" >< i class= "fa fa-upload" ></ i > Upload
                     File </ button >
                    < input type = "hidden" name = "option[222]" value = "" >
3721
                     id = "input-option222" >
3722
                 </ div >
3723
3724
3725
3726
                 < div class= "form-group required " >
                    < label class= "control-label" for= "input-option219" > >
3727
                     Date </ label >
                    < div class= "input-group date" >
3728
3729
                      < input type = "text" name = "option[219]" value =</pre>
                        "2011-02-20" data - date - format = "YYYY-MM-DD" id =>
                         "input-option219" class= "form-control" >
                      < span class= "input-group-btn" >
3730
3731
                      < button class= "btn btn-default" type = "button" >< i >
                         class= "fa fa-calendar" ></ i ></ button >
3732
                      </ span ></ div >
                 </ div >
3733
3734
3735
3736
                              < div class= "form-group required " >
3737
                    < label class= "control-label" for= "input-option221" > >
3738
                     Time </ label >
                    < div class= "input-group time" >
3739
3740
                      < input type = "text" name = "option[221]" value =</pre>
                        "22:25" data - date - format = "HH:mm" id = "input- >
                        option221" class= "form-control" >
3741
                      < span class= "input-group-btn" >
3742
                      < button type = "button" class= "btn btn-default" >< i >
                         class= "fa fa-calendar" ></ i ></ button >
3743
                      </ span ></ div >
3744
                 </ div >
3745
3746
3747
                                                                   < div
                        class= "form-group required " >
3748
                   < label class= "control-label" for= "input-option220" > >
                     Date & amp; Time </ label >
                    < div class= "input-group datetime" >
3749
3750
                      < input type = "text" name = "option[220]" value =</pre>
                        "2011-02-20 22:25" data - date - format = "YYYY-MM-DD"
                        HH:mm" id = "input-option220" class= "form-control" >
                      < span class= "input-group-btn" >
3751
                      < button type = "button" class= "btn btn-default" >< i >
3752
                         class= "fa fa-calendar" ></ i ></ button >
                      </ span ></ div >
3753
3754
                 </ div >
3755
       < div class= "form-group" >
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
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```

```
< label class= "control-label" for= "input-quantity" >
3756
                      Oty </ label >
                    < input type = "text" name = "quantity" value = "2" size >
3757
                      = "2" id = "input-quantity" class= "form-control" >
                    < input type = "hidden" name = "product_id" value = "42" >
3758
                    < br >
3759
3760
                    < button type = "button" id = "button-cart" data -</pre>
                      loading - text = "Loading..." class= "btn btn-primary
                      btn-lg btn-block" > Add to Cart</button>
3761
                 </div>
                              <div class= "alert alert-info" >< i class= "fa >
3762
                         fa-info-circle" ></ i > This product has a minimum >
                        quantity of 2</div>
3763
                 </div>
                          <div class= "rating" >
3764
3765
                                     < span class= "fa fa-stack" >< i class= >
                 "fa fa-star-o fa-stack-1x" ></ i ></ span >
                                   < span class= "fa fa-stack" >< i class=</pre>
                                                                              P
                    "fa fa-star-o fa-stack-1x" ></ i ></ span >
                                                                              P
                                  < span class= "fa fa-stack" >< i class= "fa>
                    fa-star-o fa-stack-1x" ></ i ></ span >
                                                                              P
                               < span class= "fa fa-stack" >< i class= "fa</pre>
                    fa-star-o fa-stack-1x" ></i ></span >
                                                                              P
                              < span class= "fa fa-stack" >< i class= "fa fa->
                    star-o fa-stack-1x" ></ii></span ></ii>
                    href = "" onclick = "$('a[href=\'#tab-review\']').trigger>
                    ('click'); return false;" > 0 reviews </ a > / < a href =>
                     "" onclick = "$('a[href=\'#tab-review\']').trigger
                    ('click'); return false;" > Write a review</a>
3766
                 <hr>>
                 <!-- AddThis Button BEGIN -->
3767
3768
                 <div class= "addthis_toolbox addthis_default_style" data - >
                     url = "http://opencart.abstracta.us:80/index.php?
                                                                              P
                    route=product/product&product_id=42" >< a class=</pre>
                                                                              P
                    "addthis_button_facebook_like" fb: like: layout =
                    "button_count" ></ a > < a class= "addthis_button_tweet" >
                    ></ a > < a class= "addthis_button_pinterest_pinit" ></ a>
                    > < a class= "addthis_counter addthis_pill_style" ></ a >
                    ></ div >
3769
                 < script type = "text/javascript" src =</pre>
                    "ShoppingCartou_files/addthis_widget.js" ></ script >
3770
                 < !--AddThis Button END -->
3771
               </div>
                </div>
3772
3773
           </div>
3774
                 <h3>Related Products</h3>
3775
           <div class= "row" >
             div class= "col-xs-6 col-sm-3" >
3776
               < div class= "product-thumb transition" >
                 < div class= "image" >< a href = "http://</pre>
3777
                    opencart.abstracta.us/index.php?route=product/
                    product&product_id=40" >< img src =</pre>
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
                                                                           93
                   "ShoppingCartou_files/iphone_1-200x200.jpg" alt =
                   "iPhone" title = "iPhone" class= "img-responsive" data -
                                                                           P
                   pagespeed - url - hash = "3165555430" onload =
                                                                           P
                   "pagespeed.CriticalImages.checkImageForCriticality
                                                                           P
                   (this);" ></ a ></ div >
3778
                 < div class= "caption" >
3779
                   < h4 >< a href = "http://opencart.abstracta.us/
                     index.php?route=product/product&product_id=40" >
                     iPhone </ a ></ h4 >
3780
                    iPhone is a revolutionary new mobile phone that
                                                                           P
                     allows you to make a call by simply tapping a name
                     o..
3781
                                              $123.20
3782
                                      < span class= "price-tax" > Ex Tax:
                       $101.00 </ span > 
3783
                    </ div >
3784
                 < div class= "button-group" >
                   < button type = "button" onclick = "cart.add('40',</pre>
3785
                     '1');" >< span class= "hidden-xs hidden-sm hidden-md" >>
                      Add to Cart</span> <i class= "fa fa-shopping-cart" >
                      i ></ button >
                   < button type = "button" data - toggle = "tooltip" title >
3786
                      = "" onclick = "wishlist.add('40');" data - original ->
                      title = "Add to Wish List" >< i class= "fa fa-heart" >
                     ></ i ></ button >
                   < button type = "button" data - toggle = "tooltip" title >
3787
                      = "" onclick = "compare.add('40');" data - original - >
                     title = "Compare this Product" >< i class= "fa fa-
                     exchange" ></ i ></ button >
                 </ div >
3788
               </ div >
3789
3790
             </ div >
                                                            < div class=
3791
                       "col-xs-6 col-sm-3" >
               < div class= "product-thumb transition" >
3792
                 < div class= "image" >< a href = "http://</pre>
3793
                   opencart.abstracta.us/index.php?route=product/
                   product&product_id=41" >< img src =</pre>
                                                                           P
                   "ShoppingCartou_files/imac_1-200x200.jpg" alt = "iMac"
                   title = "iMac" class= "img-responsive" data - pagespeed ->
                    url - hash = "307422395" onload =
                                                                           ₽
                   "pagespeed.CriticalImages.checkImageForCriticality
                                                                           P
                   (this);" ></ a ></ div >
                 < div class= "caption" >
3794
3795
                   < h4 >< a href = "http://opencart.abstracta.us/
                     index.php?route=product/product&product_id=41" >
                     iMac </ a ></ h4 >
3796
                   > Just when you thought iMac had everything, now
                     there's even more. More powerful Intel Core 2 Duo
                     pro..
3797
                                              $122.00
```

```
...io\source\repos\seleniumcartvone\seleniumcypress.js
```

```
3798
                                       < span class= "price-tax" > Ex Tax:
                       $100.00 </ span > 
3799
                    </ div >
                 < div class= "button-group" >
3800
3801
                   < button type = "button" onclick = "cart.add('41',</pre>
                      '1');" >< span class= "hidden-xs hidden-sm hidden-md" >>
                      Add to Cart</span> <i class= "fa fa-shopping-cart" >
                      i ></ button >
3802
                   < button type = "button" data - toggle = "tooltip" title >
                      = "" onclick = "wishlist.add('41');" data - original ->
                      title = "Add to Wish List" >< i class= "fa fa-heart" >
                     ></ i ></ button >
3803
                   < button type = "button" data - toggle = "tooltip" title >
                      = "" onclick = "compare.add('41');" data - original - >
                     title = "Compare this Product" >< i class= "fa fa-
                     exchange" ></ i ></ button >
3804
                 </ div >
3805
               </ div >
             </ div >
3806
3807
                               </ div >
                           </ div >
3808
3809
         </ div >
3810 </ div >
3811 < script type = "text/javascript" >$('select[name=\'recurring_id\'],
       input[name="quantity"]').change(function(){$.ajax({ url: 'index.php?'
       route=product/product/getRecurringDescription',type: 'post',data:
                                                                             P
       $('input[name=\'product_id\'], input[name=\'quantity\'], select
                                                                             P
       [name=\'recurring_id\']'),dataType: 'json',beforeSend: function()
                                                                             P
       {$('#recurring-description').html(''); },success: function(json)
                                                                             P
       {$('.alert-dismissible, .text-danger').remove(); if (json
                                                                             ₽
       ['success']) {$('#recurring-description').html(json
                                                                             P
       3812 < script type = "text/javascript" >$('#button-cart').on('click',
                                                                             P
       function(){$.ajax({ url: 'index.php?route=checkout/cart/add',type:
                                                                             P
       'post',data:$('#product input[type=\'text\'], #product input[type=
                                                                             P
       \'hidden\'], #product input[type=\'radio\']:checked, #product input
                                                                             P
       [type=\'checkbox\']:checked, #product select, #product
                                                                             P
       textarea'), dataType: 'json', beforeSend: function(){$('#button-
                                                                             P
       cart').button('loading'); },complete: function(){$('#button-
                                                                             P
       cart').button('reset'); },success: function(json){$('.alert-
                                                                             P
       dismissible, .text-danger').remove();$('.form-group').removeClass
                                                                             P
       ('has-error'); if (json['error']) { if (json['error']['option'])
                                                                             P
       { for (i in json['error']['option']) { var element =$('#input-
                                                                             P
       option' + i.replace('_', '-')); if (element.parent().hasClass
                                                                             P
       ('input-group')) { element.parent().after('<div class="text-
                                                                             P
       danger">' + json['error']['option'][i] + '</div>'); } else
                                                                             P
       { element.after('<div class="text-danger">' + json['error']
                                                                             P
       ['option'][i] + '</div>'); } } if (json['error']['recurring'])
                                                                             P
       {\(\select[name=\\recurring_id\\']\).after(\(\sqrt{\div}\) class=\(\text{-}\)
                                                                             P
       danger">' + json['error']['recurring'] + '</div>'); }$('.text-
                                                                             P
       danger').parent().addClass('has-error'); } if (json['success'])
                                                                             P
       {$('.breadcrumb').after('<div class="alert alert-success alert-
                                                                             P
       dismissible">' + json['success'] + '<button type="button"</pre>
```

```
class="close" data-dismiss="alert">×</button></div>');$('#cart
      > button').html('<span id="cart-total"><i class="fa fa-shopping-
                                                            P
     cart"></i> ' + json['total'] + '</span>');$('html, body').animate
                                                            P
      ({ scrollTop: 0},'slow');$('#cart > ul').load('index.php?
                                                            P
     route=common/cart/info ul li'); } },error: function(xhr,
                                                            P
     ajaxOptions, thrownError){ alert(thrownError + "\r\n" +
                                                            P
     xhr.statusText + "\r\n" + xhr.responseText); } }); });</ script >
3813 < script type = "text/javascript" >$('.date').datetimepicker
      ({ language: 'en-gb',pickTime: false});$('.datetime').datetimepicker
      ({ language: 'en-gb',pickDate: true,pickTime: true});
                                                            P
      $('.time').datetimepicker({ language: 'en-gb',pickDate: false});
                                                            P
      $('button[id^=\'button-upload\']').on('click', function(){ var node
                                                            P
     = this;$('#form-upload').remove();$('body').prepend('<form</pre>
                                                            P
      enctype="multipart/form-data" id="form-upload" style="display:
                                                            P
     none;"><input type="file" name="file" /></form>');$('#form-upload
                                                            P
      input[name=\'file\']').trigger('click'); if (typeof timer!=
                                                            P
      'undefined') {    clearInterval(timer);    }    timer = setInterval(function
                                                            P
      (){ if ($('#form-upload input[name=\'file\']').val() != '')
                                                            P
      { clearInterval(timer); $.ajax({ url: 'index.php?route=tool/
                                                            P
     upload',type: 'post',dataType: 'json',data: new FormData($('#form-
                                                            P
     upload')[0]),cache: false,contentType: false,processData:
                                                            P
      false,beforeSend: function(){$(node).button('loading'); },complete:
                                                            P
     function(){$(node).button('reset'); },success: function(json)
                                                            ₽
      {$('.text-danger').remove(); if (json['error']) {$(node).parent
                                                            P
      ().find('input').after('<div class="text-danger">' + json['error'] +
      '</div>'); } if (json['success']) { alert(json['success']);
                                                            P
      $(node).parent().find('input').val(json['code']); } },error:
     function(xhr, ajaxOptions, thrownError){ alert(thrownError + "\r\n"
                                                            P
     + xhr.statusText + "\r\n" + xhr.responseText); } }); } },500); });</
      script >< div class= "bootstrap-datetimepicker-widget dropdown-
     menu" >< div class= "datepicker" >< div class= "datepicker-days"
                                                            P
     style = "display: block;" >< thead</pre>
      ><</ th >
                                                            P
      "picker-switch" > February 2011 ></ th
                                                            P
     ></ tr >< th class= "dow" > Mo </ th >< th class= "dow" > Tu
      We  Th <</pre>
      th class= "dow" > Fr </ th >< th class= "dow" > Sa </ th >< th
     class= "dow" > Su </ th ></ tr ></ thead >< tbody >< tr >< td class=
      "day old" > 31  1 < td class=
                                                            P
      "day" > 2  3  4
      5  6 </
                                                            P
     tr > 7  8 </ td
                                                            P
     > 9  10 < td</pre>
                                                            P
     class= "day" > 11  12 < td class=
                                                            P
      "day" > 13  14 < td
                                                            P
     class= "day" > 15  16 < td class=
                                                            P
      "day" > 17 < td >< td class= "day" > 18 < td >< td class= "day" >
     19  20 < td
                                                            P
     class= "day" > 21  22 < td class=
      "day" > 23  24 
     25  26  27 
      ></ tr >< td class= "day" > 28 >< td class= "day new" > \Rightarrow
      1  2  3 \Rightarrow
```

 4 5 6 P "day new" > 7 8 < td class= "day new" > 9 10 < td class= P "day new" > 11 12 < td class= "day new" > 13 </ div >< div P class= "datepicker-months" style = "display: none;" >< table class= P "table-condensed" >< thead ><</ th >< th P colspan = "5" class= "picker-switch" > 2011 < th class= P "next" >></ thead >< td colspan = "7" >< span class= "month" > Jan </ span >< span class= "month active" > Feb </ span >< span class= "month" > Mar </ span >< span class= "month" > Apr </ span >< span class= "month" > May </ span >< span class= "month" > Jun </ span >< span class= "month" > Jul </ span >< span class= "month" > Aug </ span >< span class= "month" > Sep </</pre> span >< span class= "month" > Oct </ span >< span class= "month" > P Nov </ span >< span class= "month" > Dec </ span ></ td ></ tr ></tbody ></ div >< div class= "datepicker-years" style = "display: none;" >< thead >< 🤝 th class= "prev" ><</ th >< th colspan = "5" class= "picker-switch" → > 2010 - 2019 ></ thead >< > tbody >< span class= "year old" > 2009 </ → span >< span class= "year" > 2010 </ span >< span class= "year active" > 2011 </ span >< span class= "year" > 2012 </ span >< span class= "year" > 2013 </ span >< span class= "year" > 2014 </ span >< → span class= "year" > 2015 </ span >< span class= "year" > 2016 </</pre> span >< span class= "year" > 2017 </ span >< span class= "year" > P 2018 </ span >< span class= "year" > 2019 </ span >< span class= P "year old" > 2020 </ span ></ div ></ div ></ div >< div class= "bootstrap-datetimepicker-widget" ₽ usetwentyfour dropdown-menu" style = "z-index:9999 !important;" ><</pre> P ul class= "list-unstyled" >< div class= P "datepicker" >< div class= "datepicker-days" style = "display: P block;" >< thead >< th P class= "prev" ><</ th > P February 2011 >< th class= "dow" > Mo Tu < th class= "dow" > We Th Fr </ th >< th class= "dow" > Sa </ th >< th class= "dow" > Su </ th >>></ thead > 31 </ td</pre> > 1 2 < td</pre> P class= "day" > 3 4 < td class= P "day" > 5 6 < td P class= "day" > 7 8 < td class= "day" > 9 10 11 12 13 > 14 15 16 17 < > td class= "day" > 18 19 < td class= "day active" > 20 <math>21td class= "day" > 24 25 < td class= "day" > 26 27 < tr

> 28 1 <</pre> class= "day new" > 2 3 < td class= "day new" > 4 </ td >< td class= "day new" > 5 </ td >< td class= "day new" > 6 7 < td class= "day new" > 8 9 < td class= "day new" > 10 </ td >< td class= "day new" > 11 </ td >< td class= "day ightharpoonupnew" > 12 13 </ table ></ div >< div class= "datepicker-months" style = "display: none;" >< thead ><</p> th > 2011 < th class= → "next" >></ thead >< span class= "month" > Jan </ span >< span class= "month active" > Feb </ ➤ span >< span class= "month" > Mar </ span >< span class= "month" > Apr </ → span >< span class= "month" > May </ span >< span class= "month" > Jun → </ span >< span class= "month" > Jul </ span >< span class= "month" > Aug > </ span >< span class= "month" > Sep </ span >< span class= "month" > Oct </ span >< span class= "month" > Nov </ span >< span class= "month" > > Dec </ span ></ div >< div class= "datepicker-years" style = "display: none;" >< table class= "tablecondensed" >< thead ><</ th >< th colspan = "5" → class= "picker-switch" > 2010 - 2019 ></ th ></ thead >< span class= "year > old" > 2009 </ span >< span class= "year" > 2010 </ span >< span class= "year active" > 2011 </ span >< span class= "year" > 2012 </ span >< span ➤ class= "year" > 2013 </ span >< span class= "year" > 2014 </ span ><</pre> span class= "year" > 2015 </ span >< span class= "year" > 2016 </ span >< ➤ span class= "year" > 2017 </ span >< span class= "year" > 2018 </ span</pre> >< span class= "year" > 2019 </ span >< span class= "year old" > 2020 span ></ div ></ div >< li class= "picker-switch accordion-toggle" >< a class= "btn" style =</pre> "width:100%" >< span class= "glyphicon glyphicon-time" ></ span ></ a ></ ➤ li >< div class= "timepicker" >< div class= "timepicker-picker" >< td >< a href = "#" class= "btn" data - action = "incrementHours" >< span P class= "glyphicon glyphicon-chevron-up" ></ span ></ a >< td</pre> class= "separator" >< a href = "#" class= "btn" data -</pre> action = "incrementMinutes" >< span class= "glyphicon glyphicon-chevron-</pre> up" ></ span ></ a >< span data - action = "showHours" data - time - component = "hours" class= "timepicker-hour" > 22 </ span > :< span data action = "showMinutes" data - time - component = "minutes" class= P "timepicker-minute" > 25 </ span > < a href = P "#" class= "btn" data - action = "decrementHours" >< span class= P "glyphicon glyphicon-chevron-down" ></ span ></ a >< td class= P "separator" >< a href = "#" class= "btn" data - action = P "decrementMinutes" >< span class= "glyphicon glyphicon-chevron-down" ></ span ></ a ></ div >< div class= "timepicker-hours" data - action = "selectHour" style = "display: none;" > 00 → td class= "hour" > 03 04 </ td > 05 06 < td P class= "hour" > 07 08 <

td class= "hour" > 09 10 < td class= P "hour" > 11 12 < td P class= "hour" > 13 14 < td class= "hour" > 15 16 < td P class= "hour" > 17 </ td >< td class= "hour" > 18 </ td >< td class= P "hour" > 19 20 < td P class= "hour" > 21 22 < td class= P "hour" > 23 </ div >< div class= P "timepicker-minutes" data - action = "selectMinute" style = "display: P none;" > P "minute" > 00 05 < td class= "minute" > 10 15 < td P class= "minute" > 20 25 < td class= "minute" > 30 35 < td class= "minute" > 40 45 < td class= ▶ "minute" > 50 55 </ > table ></ div ></ div ></ div >< div class= "bootstrapdatetimepicker-widget dropdown-menu" >< div class= "timepicker" >< div class= "timepicker-picker" >< → tr >< a href = "#" class= "btn" data - action = "incrementHours" >< ➤ span class= "glyphicon glyphicon-chevron-up" ></ span ></ a >< td → class= "separator" >< a href = "#" class= "btn" data -</pre> action = "incrementMinutes" >< span class= "glyphicon glyphicon-chevronup" ></ span ></ a >< span data - action = "showHours" data - time - component = "hours" class= "timepicker-hour" > 22 </ span > :< span data action = "showMinutes" data - time - component = "minutes" class= "timepicker-minute" > 25 </ span > < a href = P "#" class= "btn" data - action = "decrementHours" >< span class= P "glyphicon glyphicon-chevron-down" ></ span ></ a >< td class= P "separator" >< a href = "#" class= "btn" data - action = P "decrementMinutes" >< span class= "glyphicon glyphicon-chevron-down" ></ span ></ a ></ div >< div class= "timepicker-hours" data - action = "selectHour" style = "display: none;" > 00 > </ td >< td class= "hour" > 01 </ td >< td class= "hour" > 02 </ td ><td class= "hour" > 03 04 </ td > 05 06 < td</pre> P class= "hour" > 07 08 < P td class= "hour" > 09 10 < td class= "hour" > 11 12 < td P class= "hour" > 13 </ td >< td class= "hour" > 14 </ td >< td class= P "hour" > 15 16 < td P class= "hour" > 17 18 < td class= P "hour" > 19 20 < td P class= "hour" > 21 </ td >< td class= "hour" > 22 </ td >< td class= P "hour" > 23 </ div >< div class= P "timepicker-minutes" data - action = "selectMinute" style = "display: P none;" > P "minute" > 00 05 < td class= P "minute" > 10 15 < td class= "minute" > 20 25 < td class= ➤ "minute" > 30 35 < td

```
class= "minute" > 40  45 < td class=
       "minute" > 50  55 </ >
       table ></ div ></ div ></ div >
3814 < script type = "text/javascript" >$('#review').delegate ('.pagination >>
       a','click', function(e){e.preventDefault();$('#review').fadeOut
                                                                        P
       ('slow');$('#review').load(this.href);$('#review').fadeIn
                                                                        P
       ('slow');});$('#review').load('index.php?route=product/product/
                                                                        P
       review&product_id=42');$('#button-review').on('click', function()
                                                                        P
       {\$.ajax({ url: 'index.php?route=product/product/
                                                                        P
       write&product_id=42',type: 'post',dataType: 'json',data:$("#form-
                                                                        P
       review").serialize(),beforeSend: function(){$('#button-
                                                                        P
       review').button('loading'); },complete: function(){$('#button-
                                                                        P
       review').button('reset'); },success: function(json){$('.alert-
                                                                        P
       dismissible').remove(); if (json['error']) {$('#review').after('<div</pre>
                                                                        P
       class="alert alert-danger alert-dismissible"><i class="fa fa-
                                                                        P
       exclamation-circle"></i> ' + json['error'] + '</div>'); } if (json
                                                                        P
       ['success']) {$('#review').after('<div class="alert alert-success")</pre>
                                                                        P
       alert-dismissible"><i class="fa fa-check-circle"></i> ' + json
                                                                        P
       ['success'] + '</div>');$('input[name=\'name\']').val('');
                                                                        P
       $('textarea[name=\'text\']').val('');$('input[name=\'rating
                                                                        P
       \']:checked').prop('checked', false); } }); }); $(document).ready
                                                                        ₽
       (function(){$('.thumbnails').magnificPopup({ type:
       'image',delegate:'a',gallery: { enabled: true} }); });</ script >
3815 < footer >
3816
       < div class= "container" >
3817
         < div class= "row" >
                < div class= "col-sm-3" >
3818
3819
            < h5 > Information </ h5 >
3820
            < a href = "http://opencart.abstracta.us/</pre>
3821
                      index.php?route=information/
                      information&information_id=4" > About Us </ a >
                       li >
                        < a href = "http://opencart.abstracta.us/</pre>
3822
                                                                        P
                      index.php?route=information/
                                                                        P
                      information&information_id=6" > Delivery
                                                                        P
                      Information </ a >
                        < a href = "http://opencart.abstracta.us/</pre>
3823
                      index.php?route=information/
                      information&information_id=3" > Privacy Policy 
                       a >
3824
                        < a href = "http://opencart.abstracta.us/</pre>
                                                                        P
                      index.php?route=information/
                                                                        P
                      information&information_id=5" > Terms & amp;
                      Conditions </ a >
                      3825
          </ div >
3826
3827
                < div class= "col-sm-3" >
            < h5 > Customer Service </ h5 >
3828
3829
            < a href = "http://opencart.abstracta.us/index.php?</pre>
3830
                route=information/contact" > Contact Us </ a >
3831
              < a href = "https://opencart.abstracta.us/index.php?</pre>
```

```
route=account/return/add" > Returns </ a >
3832
              < a href = "http://opencart.abstracta.us/index.php?</pre>
               route=information/sitemap" > Site Map </ a >
3833
            </ div >
3834
3835
          < div class= "col-sm-3" >
3836
            < h5 > Extras </ h5 >
3837
            3838
              < a href = "http://opencart.abstracta.us/index.php?</pre>
               route=product/manufacturer" > Brands </ a >
              < a href = "https://opencart.abstracta.us/index.php?</pre>
3839
               route=account/voucher" > Gift Certificates </ a >
3840
              < a href = "https://opencart.abstracta.us/index.php?</pre>
               route=affiliate/login" > Affiliate </ a >
3841
              < a href = "http://opencart.abstracta.us/index.php?</pre>
               route=product/special" > Specials </ a >
3842
            3843
          </ div >
          < div class= "col-sm-3" >
3844
3845
            < h5 > Mv Account </ h5 >
            3846
3847
              < a href = "https://opencart.abstracta.us/index.php?</pre>
               route=account/account" > My Account </ a >
3848
              < a href = "https://opencart.abstracta.us/index.php?</pre>
               route=account/order" > Order History </ a >
              < a href = "https://opencart.abstracta.us/index.php?</pre>
3849
               route=account/wishlist" > Wish List </ a >
3850
              < a href = "https://opencart.abstracta.us/index.php?</pre>
               route=account/newsletter" > Newsletter </ a >
            3851
```