



INTEGRIVIDEO

AUTOMATION FRAMEWORK

PROJECT DESCRIPTION

Web application which give possibility for there clients to place easy different components like: cloud video recorder, multi-device video player, chat and others to there web project.

One thing you should do is add js script on your page.

WHAT WE SHOULD TEST?

- Projects
- Components
- Billing
- Chat



TECHNOLOGIES

- Java
- Maven
- TestNg
- Allure Report
- Selenium WebDriver
- GitLab
- Hamcrest
- Log4j
- REST Assured
- Lombok
- JavaFaker

INTERESTING LIBRARIES

Lombok:

@Getter / @Setter – easy creating of getters and setters

@ToString – implement basic toString() method

@EqualsAndHashCode – easy creating of equals() and hashCode() methods

@Data – include @ToString, @EqualsAndHashCode, @Getter, @Setter

@Builder – implement builder pattern

@Log – add logger initialization

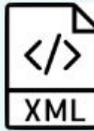
JavaFaker

Give possibility generate different tests data like: Address, Company, Finance, Phone number, Name, University. And also Game of The Thrones, Beer and Music.

Maven™



Properties



Test Suit



Driver Manager



Test Classes



Steps Classes



Test Data



Pages Classes



Selenium WebDriver



WebElements

HOW UNDERSTAND THAT MESSAGE HAS ALREADY EDITED

The image shows a web browser window displaying a chat interface. A message in the chat says "In God we trust the rest we test!" and is marked as "edited". A red arrow points from the "edited" label in the chat to the corresponding HTML structure in the browser's developer tools.

The developer tools show the DOM tree structure for the chat message. The relevant HTML structure is as follows:

```
<script async="true" src="https://www.integrivideo.com/integri.js?c=5cee93c006080104ba2b511c&uid=demo-chat-5cee93c006080104ba2b511c"></script>
<div class="integri-chat-message-text" data-message-id="5cee93c006080104ba2b511c" data-session-id="5c862433c19904143a1087a3">
  <div class="integri-chat-message-text">
    "In God we trust the rest we test!"
  </div>
  <div class="integri-chat-message-text::after" style="display: inline-block; width: 1em; text-align: center; vertical-align: middle; font-size: 0.8em; color: #1a1a1a; font-weight: bold; margin-left: 0.5em;">
    (edited)
  </div>
</div>
```

The CSS styles for the chat message are shown in the Styles pane:

```
margin: 8px 8px 8px 8px;
border: 1px solid #ccc;
padding: 10px;
border-radius: 5px;
background-color: #f9f9f9;
width: 100%;
```

The chat interface also shows a "Log in" button and a "Powered by IntegriVideo" watermark. The footer contains the IntegriVideo logo, support links, contact information, and social media icons.

Project

- pages
 - AddNewCardPage
 - BillingPage
 - CreateComponentPage
 - CreateProjectPage
 - DemoChatPage**
 - LoginPage
 - Page
 - ProjectsPage
 - SingleProjectPage
- steps
- utils
- resources
 - drivers
 - files
 - json
 - environment.properties
 - log4j.properties
 - parallel-tests.xml
 - schema.json
 - setting.properties
- test
 - java
 - api
 - baseTest
 - BaseTest
 - CustomListener
 - ui
 - DemoChatTests
 - PaymentTests
 - ProjectTests
 - target
 - allure-results
 - classes
 - generated-sources
 - generated-test-sources
 - logs
 - maven-status
 - screenshots
 - surefire-reports
 - test-classes
 - pom.xml
 - External Libraries
 - Scratches and Consoles

```
Missing .gitignore file in Git project
206 public DemoChatPage clickRemoveButtonForOwnLastMessage() {
207     driver.findElement(DELETE_OWN_LAST_MESSAGE_BUTTON).click();
208     return this;
209 }
210
211 public DemoChatPage acceptAlert() {
212     driver.switchTo().alert().accept();
213     return this;
214 }
215
216 private List<WebElement> getMessageList() { return driver.findElements(OWN_MESSAGE_LIST); }
217
218
219
220 public String getOwnLastMessage() {
221     List<WebElement> messages = getMessageList();
222     String lastMessage = messages.get(messages.size() - 1).getText();
223     log.info("Get last message: " + "\"" + lastMessage + "\"");
224     return lastMessage;
225 }
226
227 public String getOwnLastDeletedMessage() {
228     wait.until(ExpectedConditions.presenceOfElementLocated(DELETING_MESSAGE_DIV));
229     List<WebElement> messages = getMessageList();
230     String lastMessage = messages.get(messages.size() - 1).getText();
231     log.info("Get last deleted message: " + "\"" + lastMessage + "\"");
232     return lastMessage;
233 }
234
235
236 public String getOwnLastEditedMessage() {
237     wait.until((ExpectedCondition<Boolean>) driver -> {
238         JavascriptExecutor js = (JavascriptExecutor) driver;
239         Object content = js.executeScript("return window.getComputedStyle(" +
240             "(document.getElementsByClassName('integri-chat-message-text')[0], '::after').getPropertyValue('content');");
241         return content.toString().contains("\ (edited)\");
242     });
243     List<WebElement> messages = getMessageList();
244     String lastMessage = messages.get(messages.size() - 1).getText();
245     log.info("Get last edited message: " + "\"" + lastMessage + "\"");
246     return lastMessage;
247 }
248
249 public boolean checkDemoVersionWindowIsDisplayed() {
250     wait.until(ExpectedConditions.presenceOfElementLocated(DEMO_VERSION_WINDOW));
251     return driver.findElement(DEMO_VERSION_WINDOW).isDisplayed();
252 }
```

HOW UNDERSTAND THAT MESSAGE HAS ALREADY SENT

The screenshot shows an IDE with a project structure on the left and a code editor on the right. The code editor displays the `DemoChatPage` class with several methods. A red box highlights the `sendTenMessages` method, which is used to send a message and wait for the number of elements to increase.

```
28 private static final By DELETE_OWN_LAST_MESSAGE_BUTTON = By.xpath("//div[contains(@class, 'integri-chat-message-own')] +  
29     "[last()]//span[contains(@class, 'integri-chat-remove-message')]");  
30 private static final By MESSAGE_FIELD_FOR_EDIT = By.xpath("//div[contains(@class, 'integri-chat-message-own')] +  
31     "[last()]//textarea");  
32 private static final By DEMO_VERSION_WINDOW = By.xpath("//div[@class='integri-demo-version']");  
33 private static final By NAME_FIELD = By.xpath("//input[@placeholder='Name']");  
34 private static final By EMAIL_FIELD = By.xpath("//input[@placeholder='Email']");  
35 private static final By URL_FIELD = By.xpath("//input[@placeholder='Photo URL']");  
36 private static final By SAVE_BUTTON = By.xpath("//button[@class='integri-user-settings-save integri-button-blue']");  
37 private static final By OVERLAPS_NAME_WINDOW = By.xpath("//div[@class='integri-modal integri-modal-shown']");  
38 private static final By NAME = By.xpath("//div[@class='integri-session-user-name']");  
39 private static final By PHOTO = By.xpath("//div[@class='integri-chat-session']/div[1]");  
40 private static final By INPUT_FILE = By.xpath("//input[@type='file']");  
41 private static final By START_BUTTON = By.xpath("//button[contains(@class, 'integri-file-upload-start')]");  
42 private static final By ATTACHMENT_FILES = By.xpath("//span[@class='integri-chat-message-attachment-file-name']");  
43 private static final By DELETING_MESSAGE_DIV = By.xpath("//div[@class='integri-chat-message integri-chat-message-utility']");  
44 private static final By INVITE_BUTTON = By.xpath("//button[@class='btn']");  
45 private static final By NOTIFY_MESSAGE = By.xpath("//span[@data-notify='message']");  
46 private static final By UPLOADS_FILE_WINDOW = By.xpath("//div[@class='integri-modal integri-modal-shown']");  
47  
48 public DemoChatPage typeMessage(String message) {  
49     new Input(MESSAGE_FIELD, driver).sendKeys(message);  
50     return this;  
51 }  
52  
53 public DemoChatPage sendTenMessages(String message) {  
54     for (int i = 0; i < 11; i++) {  
55         wait.until(ExpectedConditions.numberOfElementsToBeMoreThan(OWN_MESSAGE_LIST, number i - 1));  
56         new Input(MESSAGE_FIELD, driver).sendKeys(message);  
57         clickSendButton();  
58     }  
59     return this;  
60 }  
61  
62 public DemoChatPage clickInviteButton() {  
63     driver.findElement(INVITE_BUTTON).click();  
64     return this;  
65 }  
66  
67 public String getNotifyMessage() {  
68     wait.until(ExpectedConditions.presenceOfElementLocated(NOTIFY_MESSAGE));  
69     String notifyMessage = driver.findElement(NOTIFY_MESSAGE).getText();  
70     log.info("Get notify message: " + notifyMessage);  
71     return notifyMessage;  
72 }  
73  
74 public String getCurrentUrl() { return super.getCurrentUrl(); }  
75  
76 public String getUrlFromBuffer() { return super.getUrlFromBuffer(); }  
77  
78  
79  
80  
81
```


document.getElementsByTagName('input')

The screenshot shows the IntegriVideo website interface. At the top, there is a "Log in" button. Below it, a "Invite users to chat" button is visible. A "Settings" modal is open, containing a text input field with the value "dfs", an "Email" field, and a URL field. A red arrow points from the "dfs" input field to the browser's developer console. The console shows the DOM tree for the selected input element, with the following properties:

```
onwheel: null
outerHTML: "<input type='text' name='userName' placeholder='Name'"
outerText: ""
ownerDocument: document
parentElement: form
parentNode: form
part: DOMTokenList [value: ""]
pattern: ""
placeholder: "Name"
prefix: null
previousElementSibling: null
previousSibling: text
readOnly: false
required: false
scrollHeight: 46
scrollLeft: 0
scrollTop: 0
scrollWidth: 324
selectionDirection: "forward"
selectionEnd: 4
selectionStart: 4
shadowRoot: null
size: 20
slot: ""
spellcheck: true
src: ""
step: ""
style: CSSStyleDeclaration {alignContent: "", alignItems: "", alignSelf: "", alignmentBaseline: "", all: "..."}
tabIndex: 0
tagName: "INPUT"
textContent: ""
title: ""
translate: true
type: "text"
useMap: ""
validationMessage: ""
validity: ValidityState {valueMissing: false, typeMismatch: false, patternMismatch: false, tooLong: false, ...}
value: "dfs"
valueAsDate: null
valueAsNumber: NaN
webkitEntries: []
webkitdirectory: false
width: 0
willValidate: true
__proto__: HTMLInputElement
userPic: input
__proto__: HTMLCollection
```

The footer of the website includes the IntegriVideo logo, "Support" link, "Contact us" information (info@integrivideo.com, 650-450-8361), "Follow us" social media icons, and copyright information: © 2019 IntegriVideo. All rights reserved. An "Offline" indicator is also present.



MINUSES

- No models
- No elements wrapper (logs, waiters)
- No exception handling



REST ASSURED

- BaseApiTest contains requestSpec and responseSpec
- EndPoint