



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

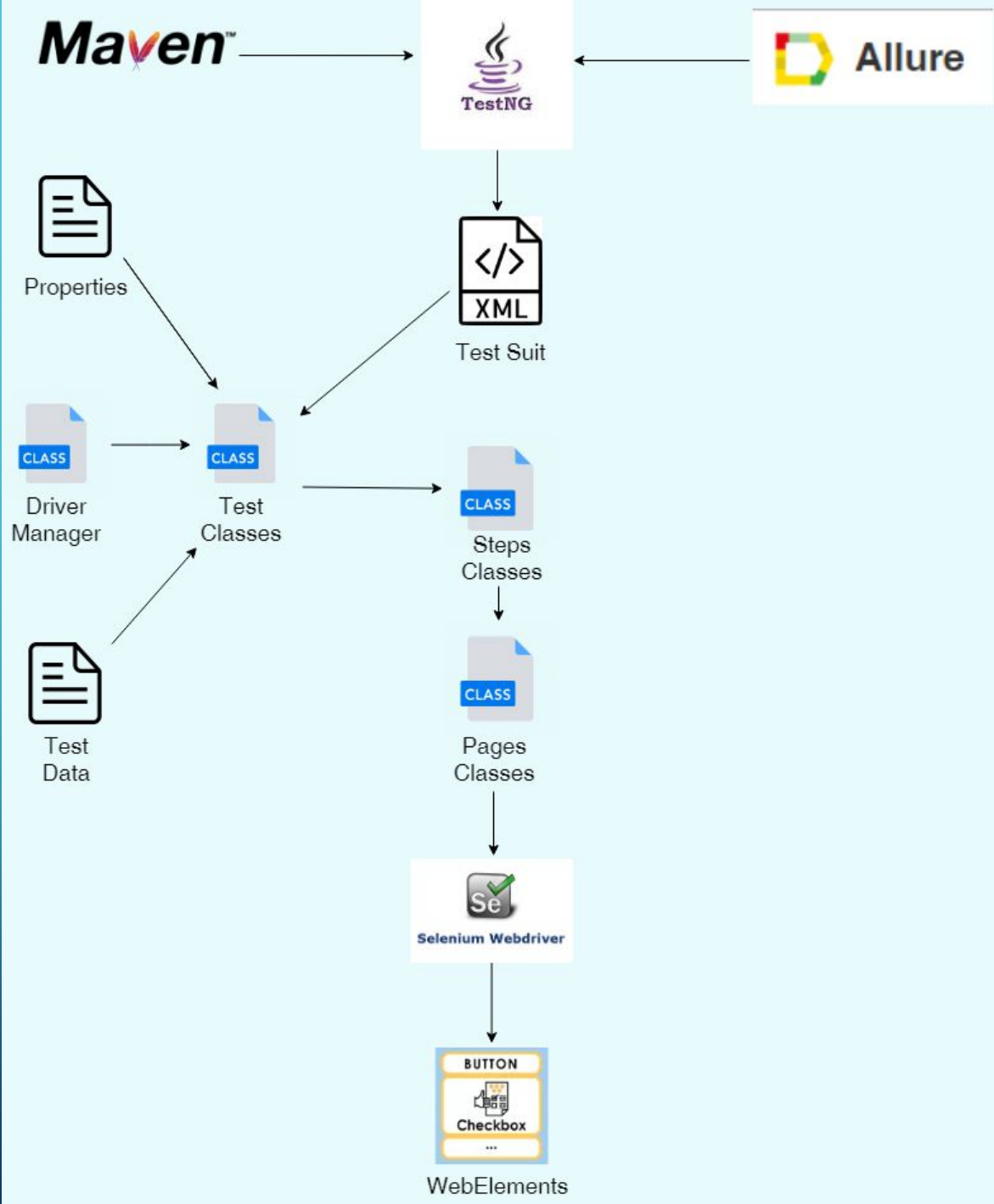
@Data – include @ToString, @EqualsAndHashCode, @Getter, @Setter

@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.



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 to the DOM structure in the browser's developer tools.

The developer tools show the following HTML structure for the chat message:

```
<script async="true" src="https://www.integrivideo.com/integri.js?c=5cee93c006080104ba2b511c&uid=demo-chat-5cee93c006080104ba2b511c"></script>
<div class="integri-component-chat">
  <div class="integri-chat-messages">
    <div class="integri-chat-message">
      <div class="integri-chat-message-text">
        "In God we trust the rest we test!"
      <div class="integri-chat-message-text::after">
        "(edited)"
      </div>
    </div>
  </div>
</div>
```

The CSS styles for the `integri-chat-message-text::after` class are:

```
content: '(edited)';
margin-left: 8px;
color: #1a1a8b6;
font-size: 75%;
```

The browser's taskbar at the bottom shows several open files, including `single_file_153321.png`, `selenium-icon-0.jpg`, `class_java_file_for....png`, `xmkFile.png`, `testng.jpg`, `maven-logo-black....png`, and `chromedriver_linux....zip`.

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

```

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 image shows an IDE window with the following components:

- Project Explorer (Left):** Shows a project structure with folders like 'driver', 'elements', 'models', 'pages', 'steps', 'utils', 'resources', 'drivers', 'files', 'json', 'environment.properties', 'log4j.properties', 'parallel-tests.xml', 'schema.json', 'setting.properties', 'test', 'api', 'baseTest', and 'ui'. The 'test' folder is expanded to show 'api' and 'ui' subfolders.
- Editor (Center):** Displays the code for 'DemoChatPage.java'. The code includes several static final By objects for various UI elements and two methods: 'typeMessage' and 'sendTenMessages'. The 'sendTenMessages' method is highlighted with a red box. It uses a for loop to send a message and then waits until the number of elements in 'OWN_MESSAGE_LIST' is greater than 'i - 1' before clicking the send button.
- Run Console (Bottom):** Shows the output of the 'sendTenMessages' method, indicating that the message was sent successfully.

```
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
```


HOW GET THE VALUE?

The screenshot illustrates the process of identifying a value in a web application. It shows the IntegriVideo interface with a settings modal open. A red arrow points from the 'dfsd' text in the modal to a code snippet and then to the corresponding HTML element in the browser's developer tools.

Code Snippet:

```
<script async="true"
src="https://www.integrivideo.com/integri.js?
c=5cee93c006080104ba2b511c&uid=demo-chat-
5cee93c006080104ba2b511c"></script>
<integri id="demo-component-264187"></integri>
```

HTML Element (from developer tools):

```
<input type="text" name="userName" placeholder="Name" == $0
<input type="email" name="userEmail" placeholder="Email">
<input type="url" name="userPic" placeholder="Photo URL">
</div></div>
</form>
</div>
</div>
</div>
</div>
</integri>
</div>
</div>
</div>
```

Styles (from developer tools):

```
margin: -
border: 1
padding: -
- 1 20 356 x 46 20 1 -
- 1
16
```

Footer:

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Offline

document.getElementsByTagName('input')

The image shows a screenshot of the IntegriVideo website with a settings modal open. A red arrow points from the 'dfsd' text in the modal to the 'value: "dfsd"' property in the browser's developer console. The console shows the DOM tree for an input element, with the 'value' property highlighted.

IntegriVideo Log in

Invite users to chat

dfsd

Settings

dfsd

Email

https://kor.ill.in.ua/m/610x385/2182352

Save Cancel

Start typing here

Enter to send | Shift+Enter new line | Drag & drop to upload

Settings

```
<script async="true"
src="https://www.integrivideo.com/integri.js?c=5cee93c006080104ba2b511c&uid=demo-chat-5cee93c006080104ba2b511c"></script>
<integri id="demo-component-264187">
</integri>
```

Copy

Elements Console Sources Network Performance Memory Application Security Audits

top Filter Default levels

```
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: "dfsd"
valueAsDate: null
valueAsNumber: NaN
webkitEntries: []
webkitdirectory: false
width: 0
willValidate: true
__proto__: HTMLInputElement
userPic: input
__proto__: HTMLCollection
```

Console What's New

Offline

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MINUSES

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



REST ASSURED

- BaseApiTest contains requestSpec and responseSpec
- EndPoint