

ISM 6145/4432 – SOFTWARE TESTING
SPRING SEMESTER 2017
Software Testing Portfolio Project Proposal

Group Members:

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Test Plan Document:

This testing portfolio comprises of various testing strategies performed on open source Internet Of Things website (<https://www.arduino.cc/>). The testing strategies which we plan to use are as following:

- Functionality Testing:
Testing for all the links in web pages, database connection, forms used for submitting or getting information from user in the web pages, Cookie testing etc.
- Usability testing:
Testing for navigation, content checking, and other user information for user help like search option, sitemap, etc.
- Interface testing:
Check if all the interactions between these servers are executed and errors are handled properly.
- Compatibility testing:
Includes testing the software on different platforms like internet explorer, safari, google chrome, Mozilla Firefox, etc.
- Security testing:
Testing by pasting internal URL directly onto the browser address bar without login. Internal pages should not open.

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC01		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “talk to us” banner		
Expected Outputs	Redirects us to contact details of company		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	10/March/2017	No defect found	Himank Vats
	12/ March/2017	No defect found	Abhilash Adem

Screenshot after test execution:

The screenshot shows a web browser window with the Arduino website open. The title bar says "Arduino - ContactUs". The address bar shows a secure connection to "https://www.arduino.cc/en/Main/ContactUs". The page content includes the Arduino logo, navigation links for HOME, BUY, SOFTWARE, PRODUCTS, LEARNING, FORUM, SUPPORT, and BLOG, and a search bar. The main content area is titled "Contact Us" and provides instructions for users to ask questions or report bugs.

Contact Us

If you have any comments or questions regarding Arduino, its products or this web site, please use one of the following methods. If you are unsure, the forum is probably the best place to start: <http://arduino.cc/forum>
For your convenience, answers to many frequently asked questions ([FAQ](#)) about our products are always available.

User Support

The Arduino forum (<http://arduino.cc/forum/>) is the best place to get help with your project, or to ask questions when you're just starting out with Arduino.

If you're not sure which is the appropriate board, use the "project guidance" section:
<http://arduino.cc/forum/index.php?board=3.0>

If you own an [official Arduino product](#) and you believe it is defective, please email [support \(at\) arduino.cc](mailto:support@arduino.cc) specifying the model, serial number, version of the operating system you use and version of the Arduino software.

Bug Reporting

If you've found a bug in the Arduino software, check if it's already known by looking at <http://github.com/arduino/Arduino/issues>, and if it's not known, add it to the list.

Documentation

If you have found an error in the online documentation, please check if it's already known by looking at the github documentation issues, and if it's not known, please [add it to the list](#).

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC02		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Arduino project on GitHub” under community banner		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	10/March/2017	No defect found	Himank Vats
	12/ March/2017	No defect found	Abhilash Adem

Screenshot after test execution:

The screenshot shows the GitHub repository for Arduino. At the top, there are tabs for 'Code', 'Issues 729', 'Pull requests 130', 'Projects 0', 'Wiki', and 'Graphs'. Below this, a summary bar indicates 6,514 commits, 3 branches, 74 releases, and 210 contributors. A message 'You must be signed in to create a pull request' is displayed. The commit list starts with a commit from 'cmaglie' that renamed 'editor.auto_close_braces' pref. Other commits include updates to '.settings', 'app', 'arduino-core', 'build', 'hardware', 'libraries', '.classpath', '.gitignore', '.project', and 'README.md'. The commits are dated from 2 years ago to 2 months ago.

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC03		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on "Blog" tab on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	10/March/2017	No defect found	Himank Vats
	12/ March/2017	No defect found	Abhilash Adem

Screenshot after test execution:

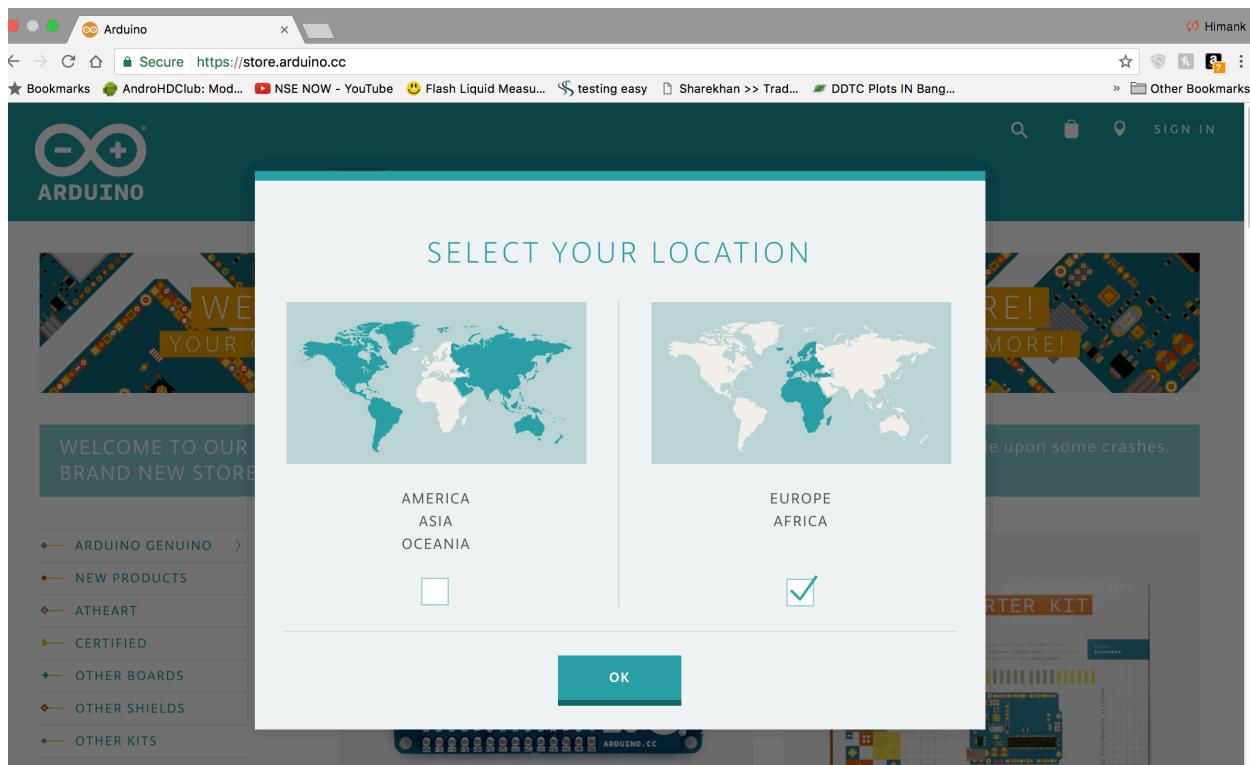
LIFT TAKES FINGER TRACKING ACCURACY TO A
NEW LEVEL

SUBMIT YOUR
ARDUINO PROJECT

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC04													
Component	Home page													
Purpose of Test Case	To check if the components give appropriate result after test case execution													
Functional Test Type	Usability Testing													
Pre-Conditions	Google Chrome on Mac OS													
Inputs	1. https://www.arduino.cc/ 2. Click on "Buy" tab on home page													
Expected Outputs	Redirects us to appropriate page													
Post-Conditions	Google chrome should not crash and should run smoothly													
Execution History	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Date</th> <th style="text-align: center; padding: 2px;">Result</th> <th style="text-align: center; padding: 2px;">Tester</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">10/March/2017</td> <td style="text-align: center; padding: 2px;">No defect found</td> <td style="text-align: center; padding: 2px;">Himank Vats</td> </tr> <tr> <td style="text-align: center; padding: 2px;">12/ March/2017</td> <td style="text-align: center; padding: 2px;">No defect found</td> <td style="text-align: center; padding: 2px;">Abhilash Adem</td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </table>		Date	Result	Tester	10/March/2017	No defect found	Himank Vats	12/ March/2017	No defect found	Abhilash Adem			
Date	Result	Tester												
10/March/2017	No defect found	Himank Vats												
12/ March/2017	No defect found	Abhilash Adem												

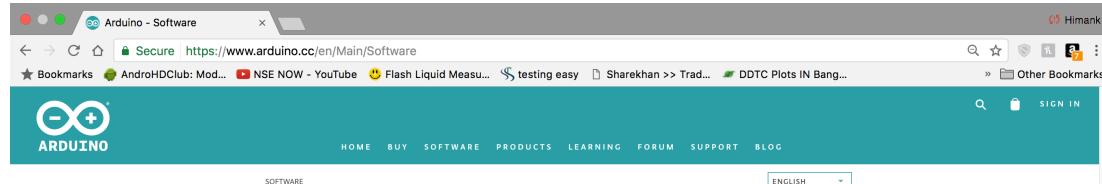
Screenshot after test execution:



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC05		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Software” tab on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	10/March/2017	No defect found	Himank Vats
	12/ March/2017	No defect found	Abhilash Adem

Screenshot after test execution:



Access the Online IDE



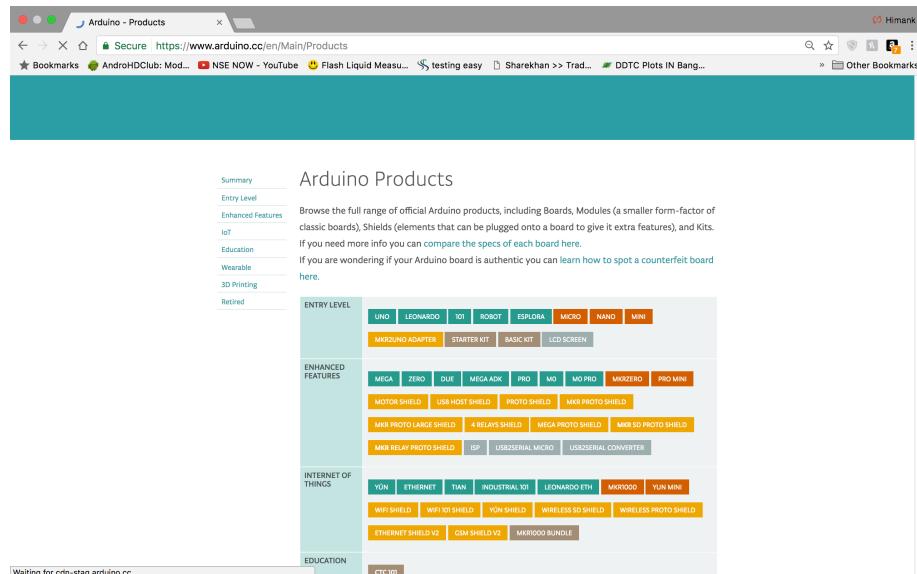
Download the Arduino IDE



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC06		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Products” tab and then on “Arduino” on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	17/March/2017	No defect found	Abhilash Adem
	17/ March/2017	No defect found	Himank Vats

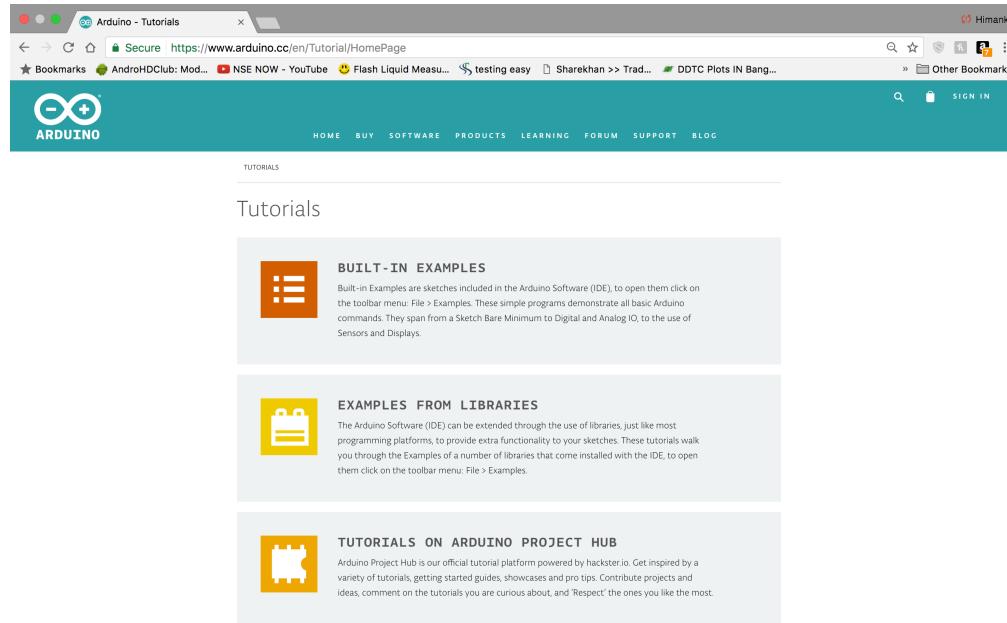
Screenshot after test execution:



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC07		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Learning” tab then select “Tutorials” on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	17/March/2017	No defect found	Abhilash Adem
	17 / March/2017	No defect found	Himank Vats

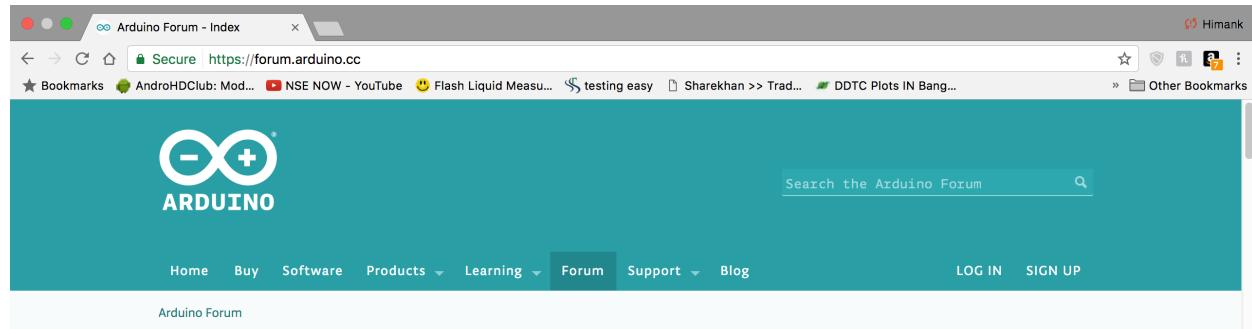
Screenshot after test execution:



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC08		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Forum” tab on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	17/March/2017	No defect found	Abhilash Adem
	17/ March/2017	No defect found	Himank Vats

Screenshot after test execution:



The screenshot shows the Arduino Forum homepage. At the top, there's a navigation bar with links for Home, Buy, Software, Products, Learning, Forum (which is highlighted in blue), Support, and Blog. To the right of the navigation bar are 'LOG IN' and 'SIGN UP' buttons. Below the navigation bar is a search bar with the placeholder 'Search the Arduino Forum'. The main content area features a teal header titled 'Using Arduino'. Under this header, there are four categories: 'Installation & Troubleshooting', 'Project Guidance', 'Programming Questions', and 'General Electronics'. Each category has a small orange plus icon to its left. To the right of each category, there are two statistics: 'Posts' and 'Topics'. For 'Installation & Troubleshooting', there are 79,050 posts and 18,545 topics. For 'Project Guidance', there are 389,751 posts and 53,603 topics. For 'Programming Questions', there are 535,478 posts and 65,701 topics. For 'General Electronics', there are 185,371 posts and 18,350 topics. Below each category, there is a brief description and the last post timestamp.

Category	Last Post	Posts	Topics
Installation & Troubleshooting	Today at 05:55 am arduino nano muerto? by mariony	79,050	18,545
Project Guidance	Today at 06:25 am Re: rev limiter for 4 st... by jeff238	389,751	53,603
Programming Questions	Today at 06:33 am Re: pulseIn() isn't work... by PaulS	535,478	65,701
General Electronics	Today at 06:33 am Re: 2 contact latching s... by TomGeorge	185,371	18,350

Using Arduino

Installation & Troubleshooting

For problems with Arduino itself, NOT your project
Last post: Today at 05:55 am arduino nano muerto? by mariony

79,050 Posts 18,545 Topics

Project Guidance

Advice on general approaches or feasibility
Last post: Today at 06:25 am Re: rev limiter for 4 st... by jeff238

389,751 Posts 53,603 Topics

Programming Questions

Understanding the language, error messages, etc.
Last post: Today at 06:33 am Re: pulseIn() isn't work... by PaulS

535,478 Posts 65,701 Topics

General Electronics

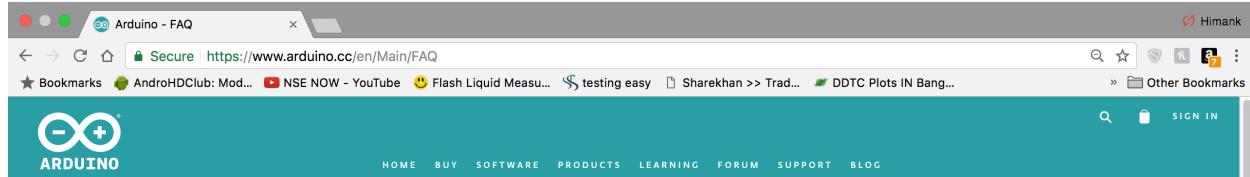
Resistors, capacitors, breadboards, soldering, etc.
Last post: Today at 06:33 am Re: 2 contact latching s... by TomGeorge

185,371 Posts 18,350 Topics

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC09									
Component	Home page									
Purpose of Test Case	To check if the components give appropriate result after test case execution									
Functional Test Type	Usability Testing									
Pre-Conditions	Google Chrome on Mac OS									
Inputs	<ol style="list-style-type: none"> 1. https://www.arduino.cc/ 2. Click on “Contact” then on “FAQ” tab on home page 									
Expected Outputs	Redirects us to appropriate page									
Post-Conditions	Google chrome should not crash and should run smoothly									
Execution History	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Date</th> <th style="text-align: center;">Result</th> <th style="text-align: center;">Tester</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">24/March/2017</td> <td style="text-align: center;">No defect found</td> <td style="text-align: center;">Abhilash Adem</td> </tr> <tr> <td style="text-align: center;">26/ March/2017</td> <td style="text-align: center;">No defect found</td> <td style="text-align: center;">Himank Vats</td> </tr> </tbody> </table>	Date	Result	Tester	24/March/2017	No defect found	Abhilash Adem	26/ March/2017	No defect found	Himank Vats
Date	Result	Tester								
24/March/2017	No defect found	Abhilash Adem								
26/ March/2017	No defect found	Himank Vats								

Screenshot after test execution:



Frequently Asked Questions

[What is Arduino?](#) Glad you asked, we have a great introduction page on Arduino, [click here to read it.](#)

[And what about Genuino?](#) Great question, [learn everything about Genuino and where this brand is available here.](#)

[What do you mean by open-source hardware?](#) Open-source hardware shares much of the principles and approach of free and open-source software. In particular, we believe that people should be able to study our hardware to understand how it works, make changes to it, and share those changes. To facilitate this, we release all of the original design files (Eagle CAD) for the Arduino hardware. These files are licensed under a Creative Commons Attribution Share-Alike license, which allows for both personal and commercial derivative works, as long as they credit Arduino and release their designs under the same license.

The Arduino software is also open-source. The source code for the Java environment is released under the GPL and the C/C++ microcontroller libraries are under the LGPL.

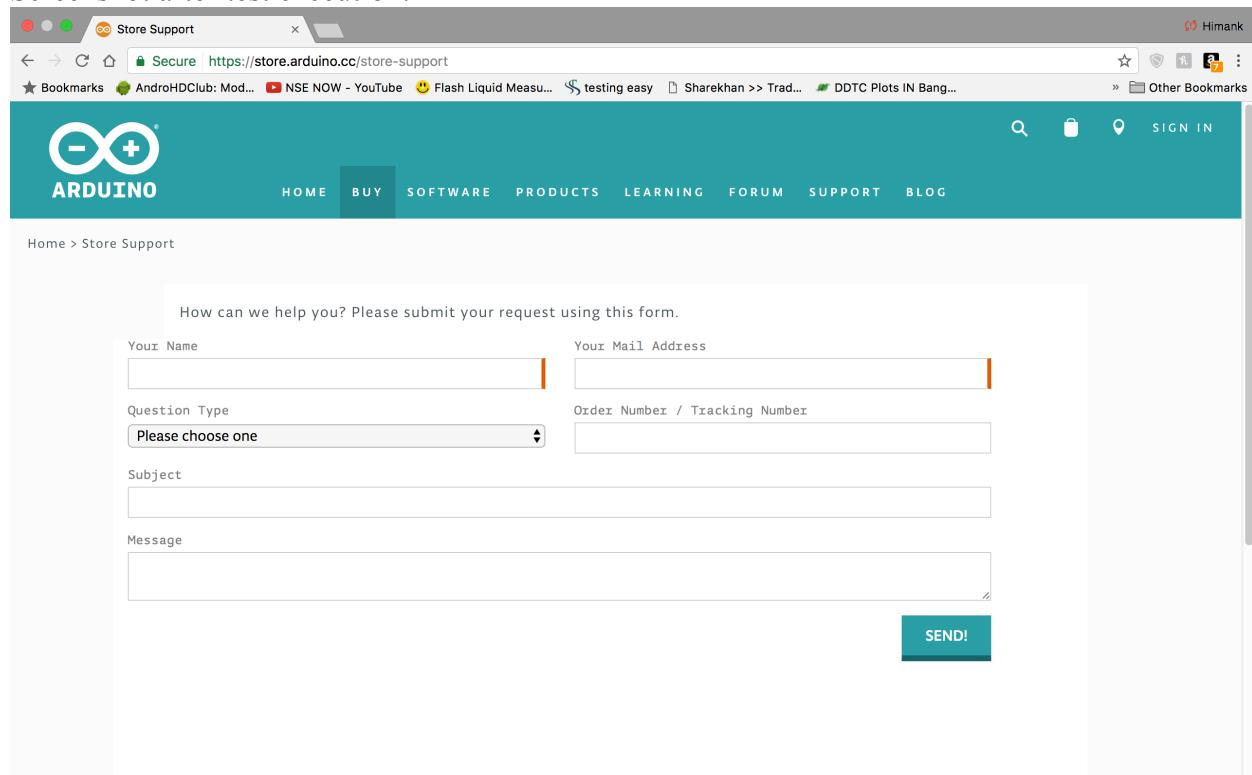
[How can I get an Arduino board?](#) You can buy an Arduino board from the [official store](#) online or from one of the distributors listed on [this page](#). If you'd prefer to build your own, see the [Arduino Single-Sided Serial board](#), which can be easily etched and assembled.

[Which are the official Arduino boards?](#) The official Arduino boards are the ones listed on the [product page](#). These are boards whose manufacturers work with the Arduino team to ensure a good user experience, compatibility with the Arduino software, and a quality product. In return for their status as official boards,

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC10		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Contact” then on “Store-support” tab on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	24/March/2017	No defect found	Abhilash Adem
	26/ March/2017	No defect found	Himank Vats

Screenshot after test execution:



How can we help you? Please submit your request using this form.

Your Name

Your Mail Address

Question Type

Order Number / Tracking Number

Subject

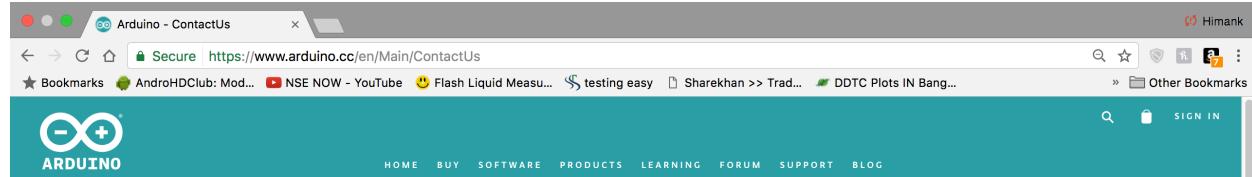
Message

SEND!

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC11		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Contact” then on “Contact us” tab on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	24/March/2017	No defect found	Abhilash Adem
	26/ March/2017	No defect found	Himank Vats

Screenshot after test execution:



Contact Us

If you have any comments or questions regarding Arduino, its products or this web site, please use one of the following methods. If you are unsure, the forum is probably the best place to start: <http://arduino.cc/forum>

For your convenience, answers to many frequently asked questions ([FAQ](#)) about our products are always available.

User Support

The Arduino forum (<http://arduino.cc/forum/>) is the best place to get help with your project, or to ask questions when you're just starting out with Arduino.

If you're not sure which is the appropriate board, use the "project guidance" section:
<http://arduino.cc/forum/index.php?board=3.0>

If you own an [official Arduino product](#) and you believe it is defective, please email [support](mailto:support@arduino.cc) (*at*) arduino.cc specifying the model, serial number, version of the operating system you use and version of the Arduino software.

Bug Reporting

If you've found a bug in the Arduino software, check if it's already known by looking at <http://github.com/arduino/Arduino/issues>, and if it's not known, add it to the list.

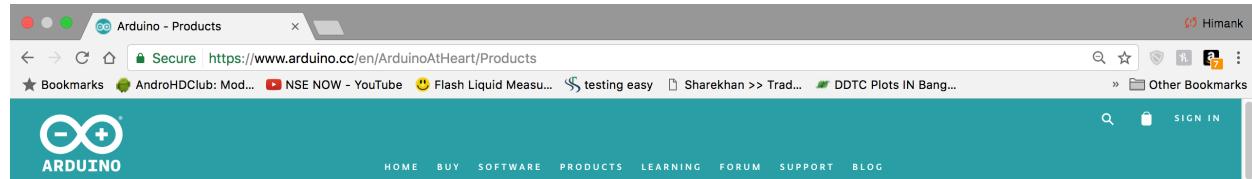
Documentation

If you have found an error in the online documentation, please check if it's already known by looking at the github documentation issues, and if it's not known, please [add it to the list](#).

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC12		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Products” then on “ATHEART” tab on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	24/March/2017	No defect found	Abhilash Adem
	26/ March/2017	No defect found	Himank Vats

Screenshot after test execution:



The AtHeart program is designed for makers and companies wanting to make their products easily recognisable as based on the Arduino technology. [Shop AtHeart products on our Store.](#)

Below the official AtHeart products.

EMoRo Kit



EMoRo (Educational Mobile Robot) by Inovatic is an Arduino-compatible robot designed to encourage logical thinking and technical curiosity in a fun, engaging way. The DIY kit includes a robust aluminum chassis and several interchangeable components that introduce kids to the basics of microcontrollers, coding, and robotics. Based on an ATmega250 controller, EMoRo can be programmed using the Arduino IDE, and supports other construction sets like LEGO Technic, Eitech, and FischerTechnik.

[EMoRo Website](#)

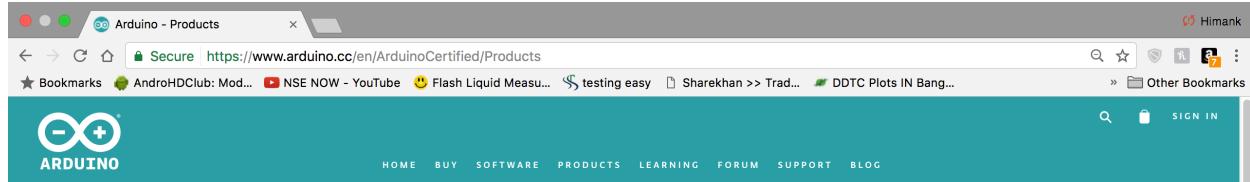
[Buy the 2560 controller or the Basic, Advanced or Pro Robot kit](#)

Waiting for store.arduino.cc...

FUNCTIONAL TEST CASE REPORTING FORM

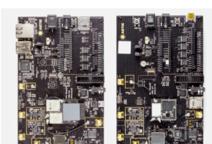
Test Case ID	TC13		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Products” then on “Certified” tab on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	2/April/2017	No defect found	Himank Vats
	3/ April/2017	No defect found	Abhilash Adem

Screenshot after test execution:



Arduino Certified

Learn more about the Arduino Certified program. These are the official Arduino Certified products:



Samsung ARTIK

Samsung ARTIK offers a family of modules tailored for the Internet of Things (IoT). With a tiered architecture built for performance, optimized power consumption, and memory utilization and footprint, ARTIK modules are designed specifically for a variety of applications, from local controllers to powerful hubs with local processing and analytics.



Intel Galileo Gen 2

Galileo Gen2 has increased performances compared to its predecessor Galileo. It's 100% compatible with Arduino shields designed for the Uno R3. It is based on Intel® Quark™ SoC X10000, a 32-bit Intel Pentium® system on a chip (SoC), operating at speeds up to 400MHz and supporting the Yocto 1.4 Poky Linux distribution.



Intel Edison

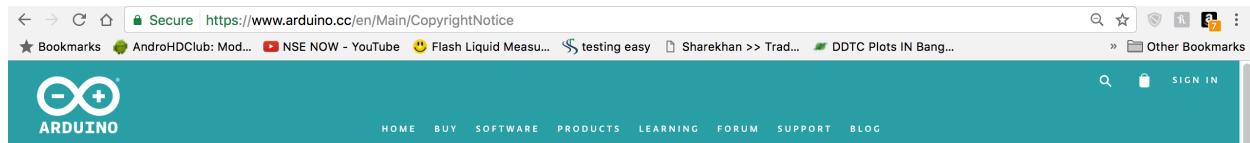
FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC14		
Component	Search		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	<ol style="list-style-type: none"> 1. https://www.arduino.cc/ 2. Click on “Search” 3. Type “ARDUINO” 4. Now open “Buy” tab 5. Click on search 6. Type “ARDUINO” 		
Expected Outputs	Redirects us to same search result		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	2/April/2017	No defect found	Himank Vats
	3/ April/2017	No defect found	Abhilash Adem

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC15		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Copyright Notice” link		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	2/April/2017	No defect found	Himank Vats
	3/ April/2017	No defect found	Abhilash Adem

Screenshot after test execution:



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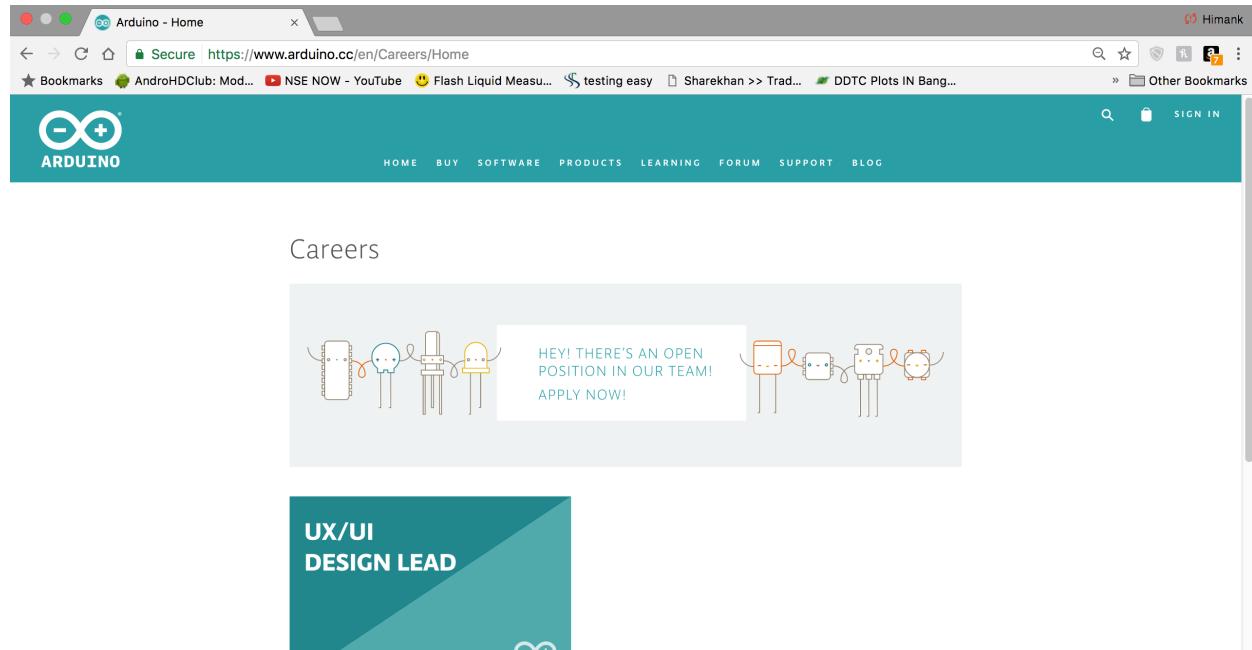


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FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC16		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Career” link on home page		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	8/April/2017	No defect found	Himank Vats
	9/April/2017	No defect found	Abhilash Adem

Screenshot after test execution:



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC17		
Component	Subscribe Newsletter		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Enter invalid email address for newsletter to subscribe, at the bottom left corner of the screen		
Expected Outputs	Should through the alert or error for wrong email address		
Post-Conditions	Page should not subscribe for newsletter		
Execution History	Date	Result	Tester
	8/April/2017	No defect found	Himank Vats
	9/April/2017	No defect found	Abhilash Adem

Screenshot after test execution:

SUBSCRIBE TO OUR NEWSLETTERS

Email

Please enter a valid email to subscribe

Arduino Newsletter

Arduino Store Newsletter

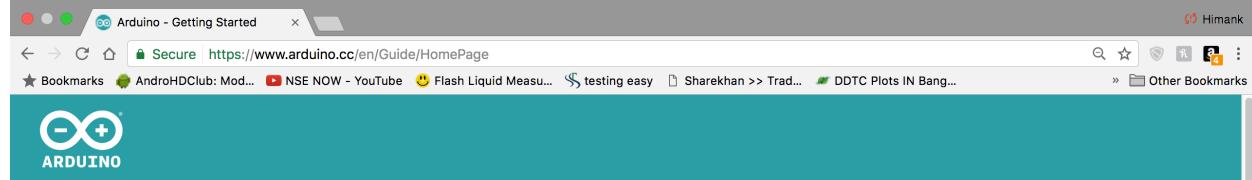
Newsletter Italiana

CANCEL
NEXT

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC18		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Learning” tab on home page and select getting started.		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	8/April/2017	No defect found	Himank Vats
	9/ April/2017	No defect found	Abhilash Adem

Screenshot after test execution:



Getting Started with Arduino and Genuino products

WELCOME TO ARDUINO! BEFORE YOU START CONTROLLING THE WORLD AROUND YOU, YOU'LL NEED TO SET UP THE SOFTWARE TO PROGRAM YOUR BOARD

The Arduino Software (IDE) allows you to write programs and upload them to your board. In the [Arduino Software page](#) you will find two options:

1. If you have a reliable Internet connection, you should use the [online IDE](#) (Arduino Web Editor). It will allow you to save your sketches in the cloud, having them available from any device and backed up. You will always have the most up-to-date version of the IDE without the need to install updates or community generated libraries.

2. If you would rather work offline, you should use the latest version of the desktop IDE.

Code online on the Arduino Web Editor

To use the online IDE simply follow [these instructions](#). Remember that boards work out-of-the-box on the [Web Editor](#), no need to install anything.

Install the Arduino Desktop IDE

To get step-by-step instructions select one of the following link accordingly to your operating system.

Instructions for our boards:

- [101](#)
- [ADK](#)
- [Due](#)
- [Esplora](#)
- [Gemma](#)
- [Intel Edison](#)
- [Intel Galileo Gen2](#)
- [ISP](#)
- [Leonardo, Leonardo ETH and Micro](#)
- [LilyPad, LilyPad Simple and LilyPad SimpleSnap](#)
- [LilyPad USB](#)
- [MEGA2560](#)
- [Mini](#)
- [MKR1000](#)
- [MKRZERO](#)
- [Nano](#)
- [Pro](#)
- [Pro Mini](#)
- [Robot](#)
- [TFT LCD Screen](#)
- [UNO](#)
- [Yún](#)
- [Zero](#)

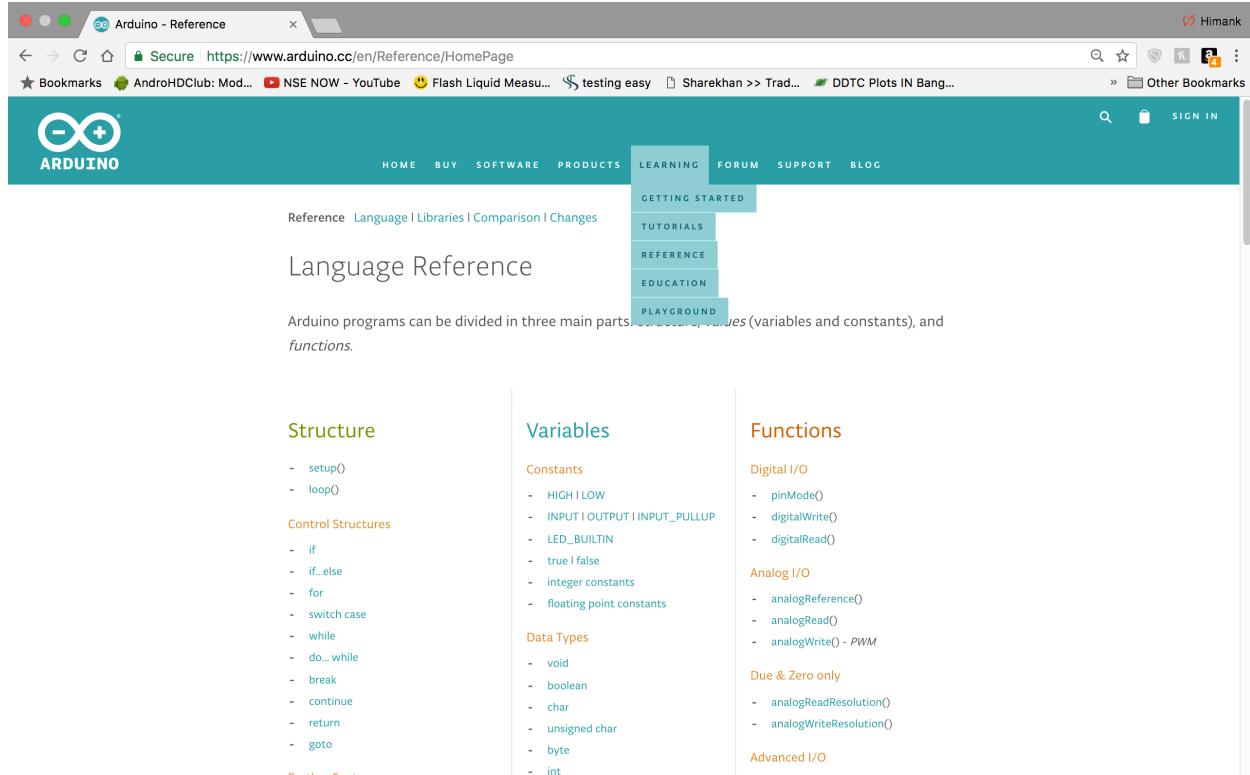
Instructions for shields:

- [Ethernet Shield](#)
- [GSM Shield 2](#)
- [Wi-Fi Shield 1m](#)

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC19												
Component	Home page												
Purpose of Test Case	To check if the components give appropriate result after test case execution												
Functional Test Type	Usability Testing												
Pre-Conditions	Google Chrome on Mac OS												
Inputs	<ol style="list-style-type: none"> 1. https://www.arduino.cc/ 2. Click on “Learning” tab on home page and select reference. 												
Expected Outputs	Redirects us to appropriate page												
Post-Conditions	Google chrome should not crash and should run smoothly												
Execution History	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Date</th> <th style="text-align: center;">Result</th> <th style="text-align: center;">Tester</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">8/April/2017</td> <td style="text-align: center;">No defect found</td> <td style="text-align: center;">Himank Vats</td> </tr> <tr> <td style="text-align: center;">9/ April/2017</td> <td style="text-align: center;">No defect found</td> <td style="text-align: center;">Abhilash Adem</td> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Result	Tester	8/April/2017	No defect found	Himank Vats	9/ April/2017	No defect found	Abhilash Adem			
Date	Result	Tester											
8/April/2017	No defect found	Himank Vats											
9/ April/2017	No defect found	Abhilash Adem											

Screenshot after test execution:

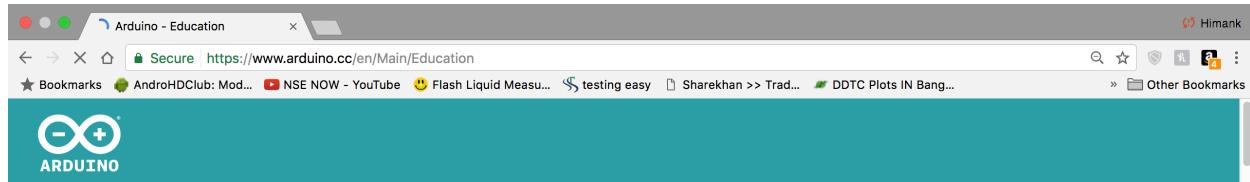


The screenshot shows a web browser displaying the Arduino Reference website at <https://www.arduino.cc/en/Reference/HomePage>. The page title is "Arduino - Reference". The navigation bar includes links for HOME, BUY, SOFTWARE, PRODUCTS, LEARNING, FORUM, SUPPORT, and BLOG. The LEARNING menu is expanded, showing sub-options: GETTING STARTED, TUTORIALS, REFERENCE (which is highlighted in blue), EDUCATION, and PLAYGROUND. Below the menu, there is a section titled "Language Reference" with a sub-section "Control Structures" listing keywords like if, else, for, while, do...while, break, continue, return, and goto. Another section "Further Syntax" is partially visible. The main content area discusses Arduino programs being divided into three parts: variables (variables and constants), and functions.

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC20												
Component	Home page												
Purpose of Test Case	To check if the components give appropriate result after test case execution												
Functional Test Type	Usability Testing												
Pre-Conditions	Google Chrome on Mac OS												
Inputs	<ol style="list-style-type: none"> 1. https://www.arduino.cc/ 2. Click on “Learning” tab on home page and select Education. 												
Expected Outputs	Redirects us to appropriate page												
Post-Conditions	Google chrome should not crash and should run smoothly												
Execution History	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Date</th> <th style="text-align: center;">Result</th> <th style="text-align: center;">Tester</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">8/April/2017</td> <td style="text-align: center;">No defect found</td> <td style="text-align: center;">Himank Vats</td> </tr> <tr> <td style="text-align: center;">9/ April/2017</td> <td style="text-align: center;">No defect found</td> <td style="text-align: center;">Abhilash Adem</td> </tr> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Result	Tester	8/April/2017	No defect found	Himank Vats	9/ April/2017	No defect found	Abhilash Adem			
Date	Result	Tester											
8/April/2017	No defect found	Himank Vats											
9/ April/2017	No defect found	Abhilash Adem											

Screenshot after test execution:



Arduino Education



Arduino has become much more than just a tool for making, tinkering, and exploring physical and digital interaction, but an entire ecosystem supporting students across all disciplines. Arduino Education is committed to empowering educators with the necessary hardware and software tools to create a more hands-on, innovative learning experience.

[CTC](#)
[Join CTC Network](#)
[Partners](#)
[Other Initiatives](#)

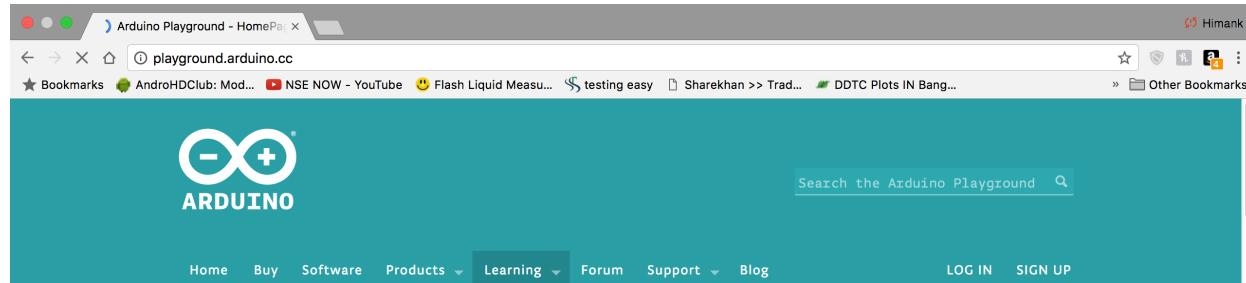
Creative Technologies in the Classroom



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC21		
Component	Home page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on “Learning” tab on home page and select playground		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	15/April/2017	No defect found	Himank Vats
	16/ April/2017	No defect found	Abhilash Adem

Screenshot after test execution:



The Arduino Playground

Welcome to the Arduino Playground, a wiki where all the users of [Arduino](#) can contribute and benefit from their collective research.

This is the place to post and share your own code, circuit diagrams, tutorials, DIY instructions, tips and tricks, and after all the hard work, to show off your projects! Anyone can edit and add to the pages here.

Arduino Playground is a [work in progress](#). We can use all the help you can give, so please read the [Participate](#) section and get your fingers typing!

If you are looking for inspiration you can also check out [Arduino Project Hub](#), a tutorial platform where you can post your Projects, Getting Started Guides and Articles. You can also comment and respect the content you like the most.

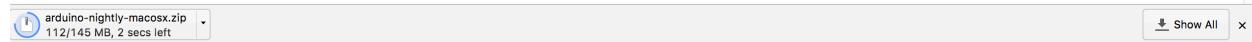
FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC22		
Component	Download		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Interface Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/en/Main/Software 2. Select operating system to start download		
Expected Outputs	Should start downloading the software		
Post-Conditions	Software should be downloaded and added to download		
Execution History	Date	Result	Tester
	15/April/2017	No defect found	Himank Vats
	16/ April/2017	No defect found	Abhilash Adem

Screenshot after test execution:



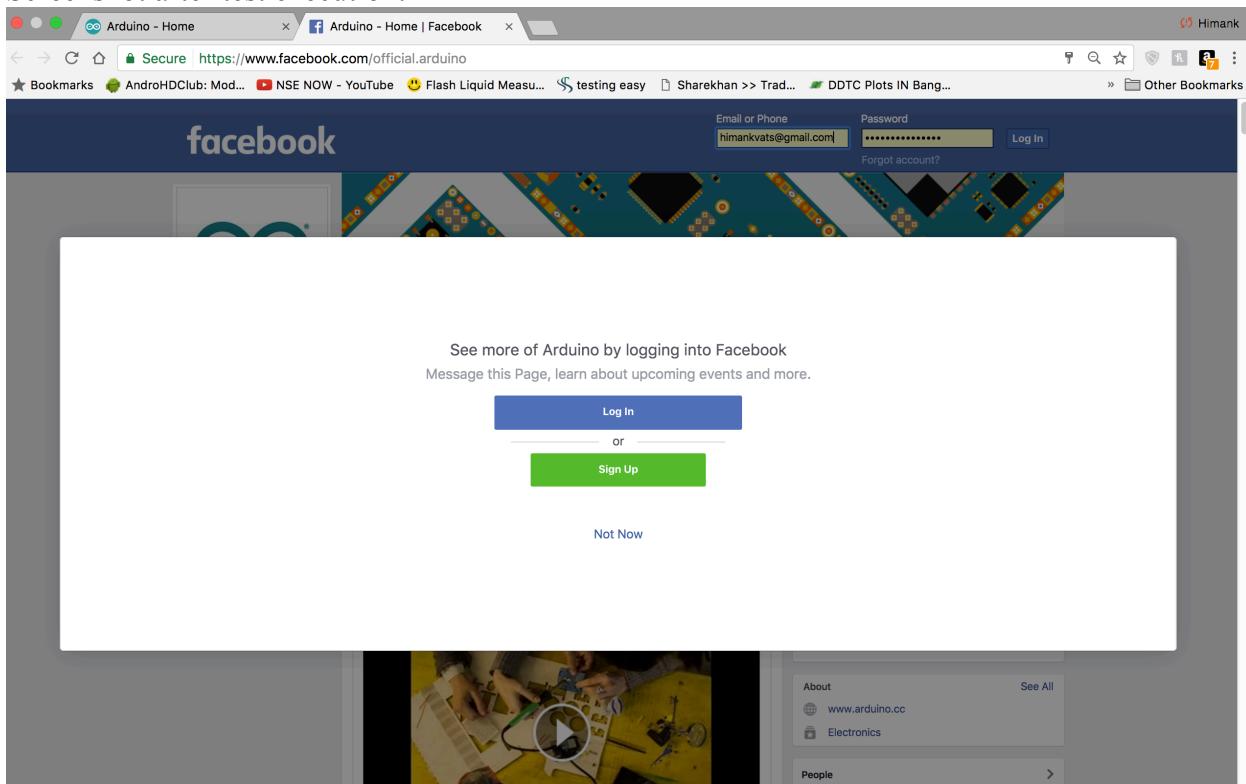
Download the Arduino IDE



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC23		
Component	Share		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Select Facebook icons indicating Facebook to share or like the Arduino		
Expected Outputs	Redirects us to appropriate Facebook page		
Post-Conditions	Should be on social media page or share link.		
Execution History	Date	Result	Tester
	15/April/2017	No defect found	Himank Vats
	16/ April/2017	No defect found	Abhilash Adem

Screenshot after test execution:



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC24		
Component	Share		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Compatibility testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/en/Main/Software 2. Select Facebook icons indicating Facebook to share or like the Arduino		
Expected Outputs	Redirects us to appropriate Facebook page		
Post-Conditions	Should be on social media page or share link.		
Execution History	Date	Result	Tester
	15/April/2017	Defect found	Himank Vats
	16/ April/2017	Defect found	Abhilash Adem

DEFECT REPORTING FORM

DEFECT ID: DC01

TITLE: Facebook share

REPORTED BY: Himank vats

REPORTED ON: April/15/2017

COMPONENT: <https://www.arduino.cc/>

SUBCOMPONENT: Software Tab

VERSION: @2017

PLATFORM: Google chrome

OPERATING SYSTEM: Mac OS Sierra

RELATED TEST CASE IDS: TC24

RESOLUTION PRIORITY: P2

RESOLUTION SEVERITY: S3

CONSISTENCY: Regular

DEFECT SUMMARY:

The Facebook icon under share, should redirect us to Facebook page but button not working.

STEPS TO REPRODUCE:

1. Open url “ <https://www.arduino.cc/en/Main/Software> ”
2. Try clicking on Facebook icon

COMMENTS:

Facebook icon is not properly coded and it does not redirect as done on homepage on google chrome in Mac OS.

ATTACHMENTS:

Share



- 1.
- 2.

For evaluators use only

DEFECT STATUS: _____ **APPROVED** _____ **REJECTED**

REASON: _____

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC25		
Component	Software page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Compatibility testing		
Pre-Conditions	Safari on Mac OS		
Inputs	<ol style="list-style-type: none">1. https://www.arduino.cc/en/Main/Software2. Select Facebook icons indicating Facebook to share or like the Arduino		
Expected Outputs	Redirects us to appropriate Facebook page		
Post-Conditions	Should be on social media page or share link.		
Execution History	Date	Result	Tester
	15/April/2017	No defect found	Himank Vats
	16/April/2017	No defect found	Abhilash Adem

Screenshot after test execution:

The screenshot shows a web browser window with the URL arduino.cc in the address bar. The page title is "Arduino - Software". The main content area displays the Arduino Software License Agreement. On the right side, there is a graphic of three teal cards, each featuring the Arduino logo (an infinity symbol with a plus sign). Below the logo, the text "ARDUINO" is repeated three times. At the bottom left of the main content area, there is a "Share" button followed by social media sharing icons for Facebook, LinkedIn, Twitter, Pinterest, and Google+.

THE ARDUINO SOFTWARE IS PROVIDED TO YOU "AS IS" AND WE MAKE NO EXPRESS OR IMPLIED WARRANTIES WHATSOEVER WITH RESPECT TO ITS FUNCTIONALITY, OPERABILITY, OR USE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR INFRINGEMENT. WE EXPRESSLY DISCLAIM ANY LIABILITY WHATSOEVER FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST REVENUES, LOST PROFITS, LOSSES RESULTING FROM BUSINESS INTERRUPTION OR LOSS OF DATA, REGARDLESS OF THE FORM OF ACTION OR LEGAL THEORY UNDER WHICH THE LIABILITY MAY BE ASSERTED, EVEN IF ADVISED OF THE POSSIBILITY OR LIKELIHOOD OF SUCH DAMAGES.

ARDUINO ARDUINO ARDUINO

Share

f LinkedIn Like 4.5k Twitter Pinterest g+

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC26		
Component	Software page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Compatibility testing		
Pre-Conditions	Mozilla Firefox on Mac OS		
Inputs	1. https://www.arduino.cc/en/Main/Software 2. Select Facebook icons indicating Facebook to share or like the Arduino		
Expected Outputs	Redirects us to appropriate Facebook page		
Post-Conditions	Should be on social media page or share link.		
Execution History	Date	Result	Tester
	15/April/2017	Defect found	Himank Vats
	16/ April/2017	Defect found	Abhilash Adem

DEFECT REPORTING FORM

DEFECT ID: DC02

TITLE: Facebook share

REPORTED BY: Himank vats

REPORTED ON: April/15/2017

COMPONENT: <https://www.arduino.cc/>

SUBCOMPONENT: Software Tab

VERSION: @2017

PLATFORM: Mozilla Firefox

OPERATING SYSTEM: Mac OS Sierra

RELATED TEST CASE IDS: TC26

RESOLUTION PRIORITY: P2

RESOLUTION SEVERITY: S3

CONSISTENCY: Regular

DEFECT SUMMARY:

The Facebook icon under share, should redirect us to Facebook page but button not working.

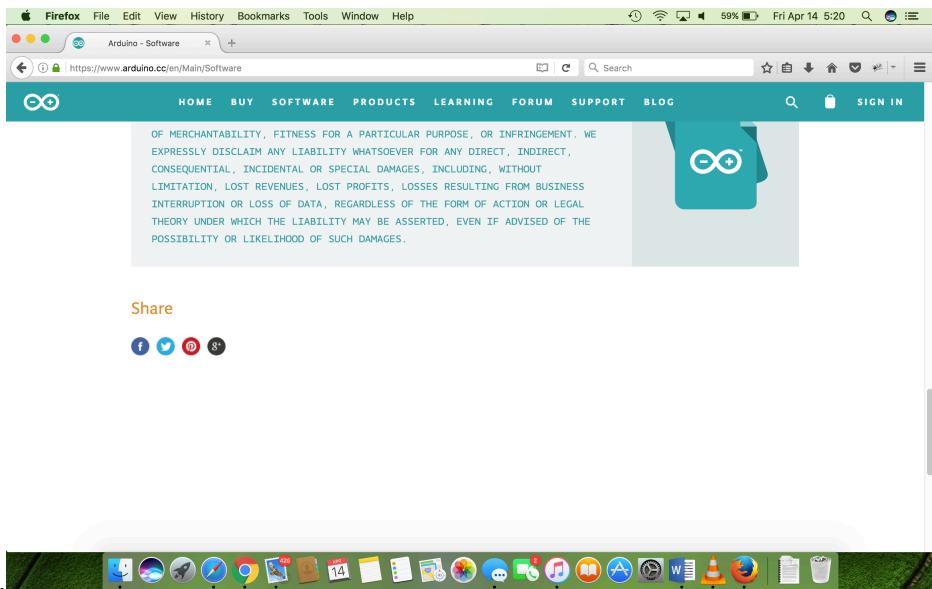
STEPS TO REPRODUCE:

2. Open url “ <https://www.arduino.cc/en/Main/Software> ”
2. Try clicking on Facebook icon

COMMENTS:

Facebook icon is not properly coded and it does not redirect as done on homepage on Mozilla Firefox in Mac OS.

ATTACHMENTS:



1.

2.

For evaluators use only

DEFECT STATUS: _____ **APPROVED** _____ **REJECTED**

REASON: _____

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC27		
Component	Profile		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Functional testing - Database testing		
Pre-Conditions	Google Chrome on Windows 10		
Inputs	1. https://www.arduino.cc/ 2. Hover over the user profile icon and select the Profile		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and page should be loaded		
Execution History	Date	Result	Tester
	19/April/2017	Defect found	Himank Vats
	20/ April/2017	Defect found	Abhilash Adem

DEFECT REPORTING FORM

DEFECT ID: DC03

TITLE: Profile load

REPORTED BY: Abhilash Adem

REPORTED ON: April/19/2017

COMPONENT: <https://www.arduino.cc/>

SUBCOMPONENT: Profile page

VERSION: @2017

PLATFORM: Google chrome

OPERATING SYSTEM: Windows 10

RELATED TEST CASE IDS: TC27

RESOLUTION PRIORITY: P3

RESOLUTION SEVERITY: S3

CONSISTENCY: Rare

DEFECT SUMMARY:

The profile of the user does not load when profile is clicked

STEPS TO REPRODUCE:

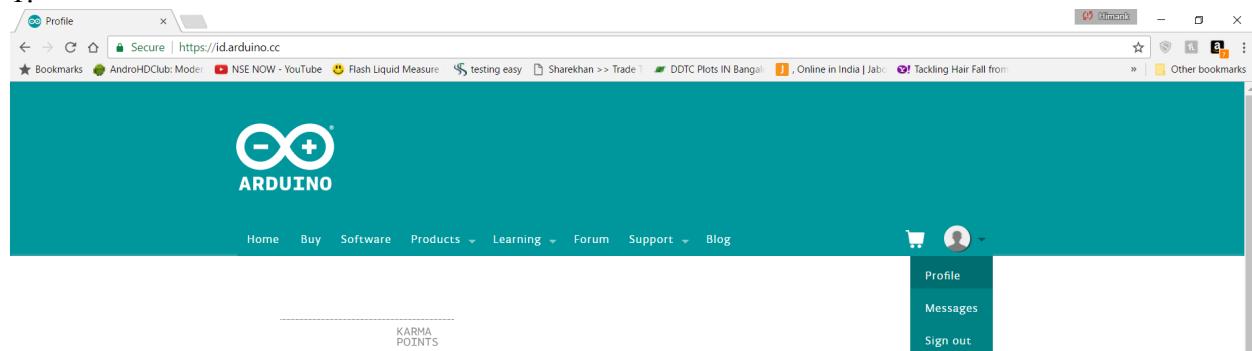
1. Open url: <https://www.arduino.cc/>
2. Hover over the profile icon on top right corner of the page.
3. Click on the profile tab from top down menu generated.

COMMENTS:

After selecting the profile, it should generate user profile.

ATTACHMENTS:

1.



2.

For evaluators use only

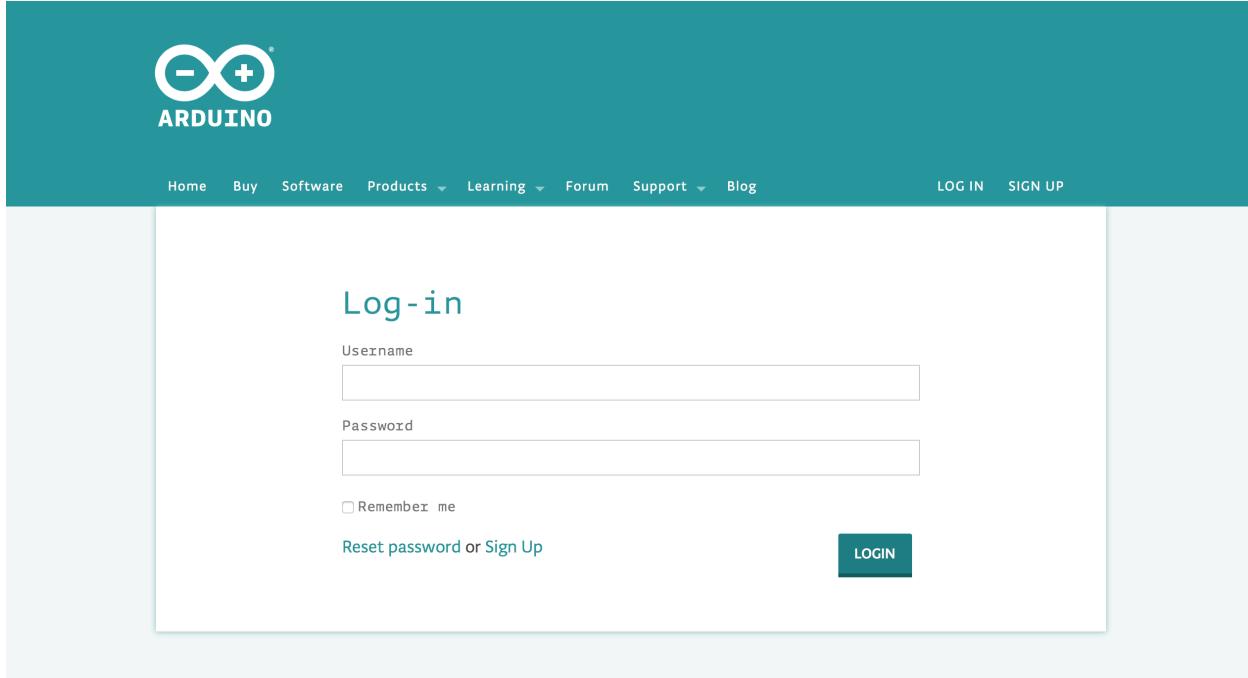
DEFECT STATUS: APPROVED REJECTED

REASON: _____

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC28		
Component	Profile page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Security testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. Open https://www.id.arduino.cc/		
Expected Outputs	Redirects us to login page		
Post-Conditions	Should not let us enter profile without entering password		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

Screenshot after test execution:

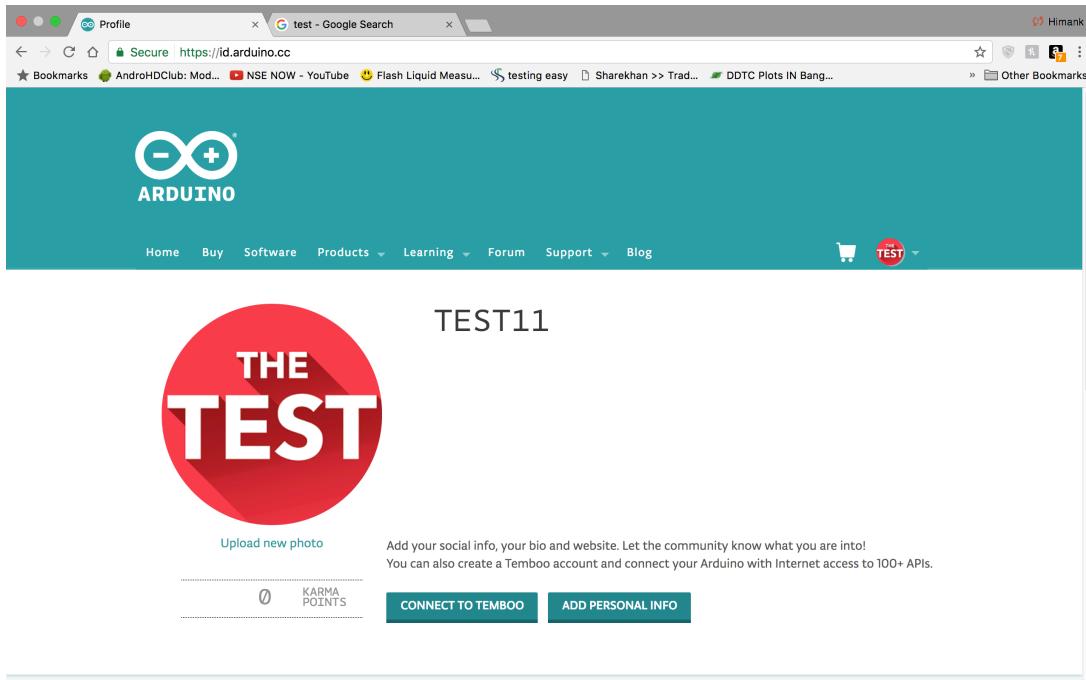


The screenshot shows the Arduino website's login interface. At the top, there is a teal header bar with the Arduino logo (a stylized infinity symbol with a minus sign on the left and a plus sign on the right) and the word "ARDUINO". Below the header, there is a navigation menu with links: Home, Buy, Software, Products, Learning, Forum, Support, and Blog. On the far right of the header, there are "LOG IN" and "SIGN UP" buttons. The main content area has a light gray background and features a centered "Log-in" heading. Below it, there are two input fields: one for "Username" and one for "Password", both represented by simple text input boxes. To the left of the "Username" field is the label "Username". To the left of the "Password" field is the label "Password". Below the "Password" field is a small checkbox labeled "Remember me". At the bottom left of the form, there is a link "Reset password or Sign Up". At the bottom right, there is a prominent blue "LOGIN" button.

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC29		
Component	Profile page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Functional Testing- Database testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Click on Login 3. Use TEST11 as username and qwerty123456 as password. 4. On top right corner click on profile. 5. Click on Upload new photo 6. Add a photo 7. Save the photo		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

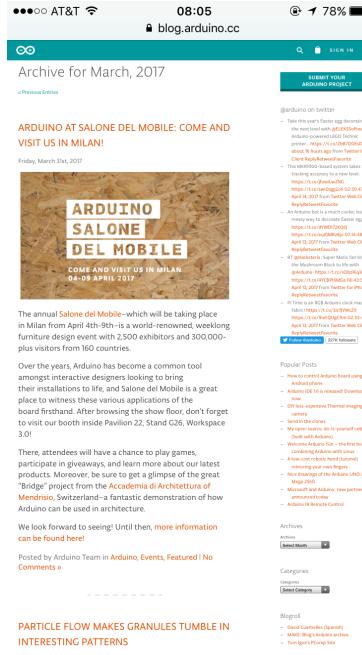
Screenshot after test execution:



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC30												
Component	Blog page												
Purpose of Test Case	To check if the components give appropriate result after test case execution												
Functional Test Type	Compatibility testing												
Pre-Conditions	Safari in IPhone												
Inputs	<ol style="list-style-type: none"> 1. https://www.arduino.cc/ 2. Click on blog 3. Select Achieves and select month as "March, 2017" 												
Expected Outputs	Redirects us to appropriate page												
Post-Conditions	Google chrome should not crash and should run smoothly												
Execution History	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Date</th> <th style="text-align: center;">Result</th> <th style="text-align: center;">Tester</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">19/April/2017</td> <td style="text-align: center;">No defect found</td> <td style="text-align: center;">Himank Vats</td> </tr> <tr> <td style="text-align: center;">20/ April/2017</td> <td style="text-align: center;">No defect found</td> <td style="text-align: center;">Abhilash Adem</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Result	Tester	19/April/2017	No defect found	Himank Vats	20/ April/2017	No defect found	Abhilash Adem			
Date	Result	Tester											
19/April/2017	No defect found	Himank Vats											
20/ April/2017	No defect found	Abhilash Adem											

Screenshot after test execution:



FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC31		
Component	Login page		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Interface Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Login with username “TEST11” and password “qwert123456” 3. Now click on home page and it shows user Sign in on top right corner. 4. Click on sign-in 5. Use username “TEST11” and password “qwert123456”		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/ April/2017	No defect found	Abhilash Adem

DEFECT REPORTING FORM

DEFECT ID: DC04

TITLE: Session Error

<https://www.arduino.cc/>

REPORTED BY: Himank vats

REPORTED ON: April/19/2017

COMPONENT:

SUBCOMPONENT: Profile page

VERSION: @2017

PLATFORM: Google chrome

OPERATING SYSTEM: Mac OS Sierra

SEVERITY: S2

RELATED TEST CASE IDS: TC31

RESOLUTION PRIORITY: P2

RESOLUTION

CONSISTENCY: Rare

DEFECT SUMMARY:

Not able to maintain the complete session till logout.

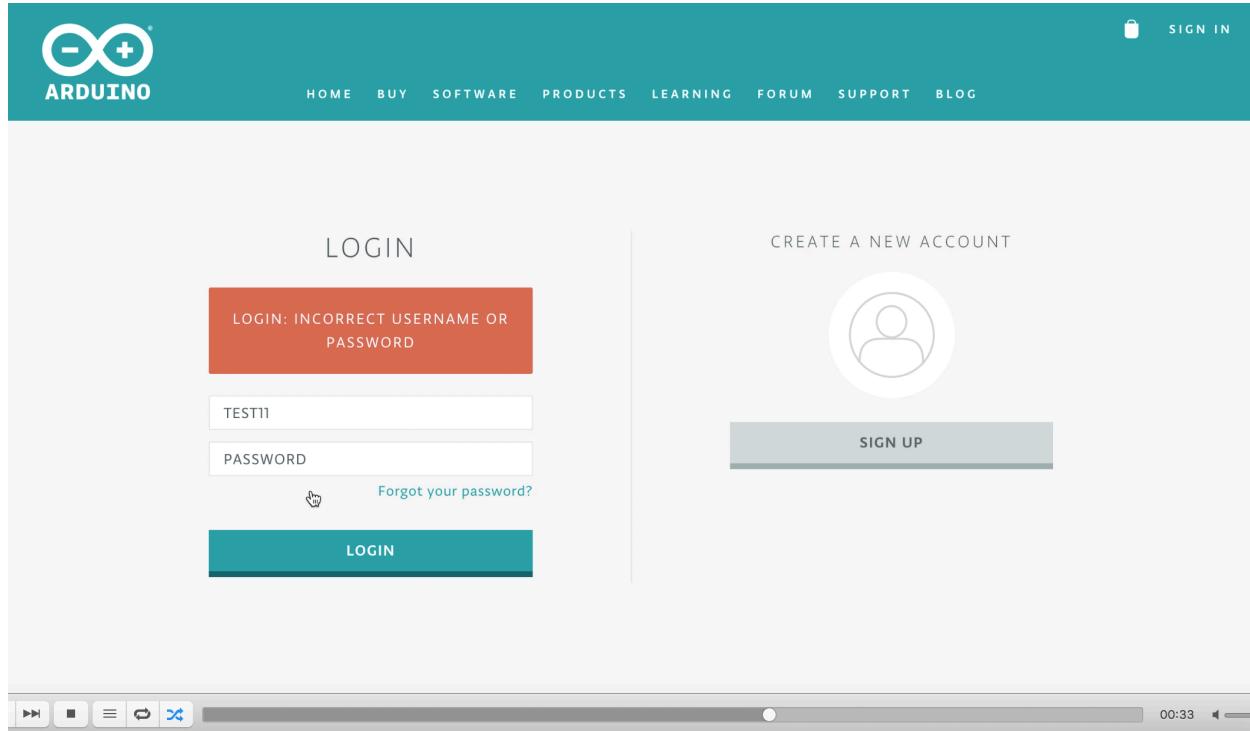
STEPS TO REPRODUCE:

1. Open url: <https://www.arduino.cc/>
2. Login with Username “TEST11” and password “qwert123456”
3. Now click on home page
4. On top right corner you can see user logged out.
5. Click on Sign-in
6. Use TEST11 as user name and password as qwert123456
7. Shows wrong password

COMMENTS:

ATTACHMENTS:

1.



2.

For evaluators use only

DEFECT STATUS: APPROVED REJECTED

REASON: _____

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC32		
Component	Login		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Functional Testing – Security Testing		
Pre-Conditions	Google Chrome on Mac OS		
Inputs	1. https://www.arduino.cc/ 2. Login with username “TEST11” and password “qwertyst123456” 3. Now click on home page and it shows user Sign in on top right corner. 4. Click on sign-in 5. Use username “TEST11” and password “qwertyst123456” 6. Shows wrong password. 7. Click on reset password and enter username as “TEST11” 8. Click on “here” shown with command “if you are not automatically redirected in 30 seconds, click here”		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	19/April/2017	Defect found	Himank Vats
	20/April/2017	Defect found	Abhilash Adem

DEFECT REPORTING FORM

DEFECT ID: DC05

TITLE: Login error

REPORTED BY: Himank vats

REPORTED ON: 19/April/2017

COMPONENT: <https://www.arduino.cc/>

SUBCOMPONENT: Profile page

VERSION: @2017

PLATFORM: Google chrome

OPERATING SYSTEM: Mac OS Sierra

SEVERITY: S1

RELATED TEST CASE IDS: TC32

RESOLUTION PRIORITY: P1

RESOLUTION

CONSISTENCY: Rare

DEFECT SUMMARY:

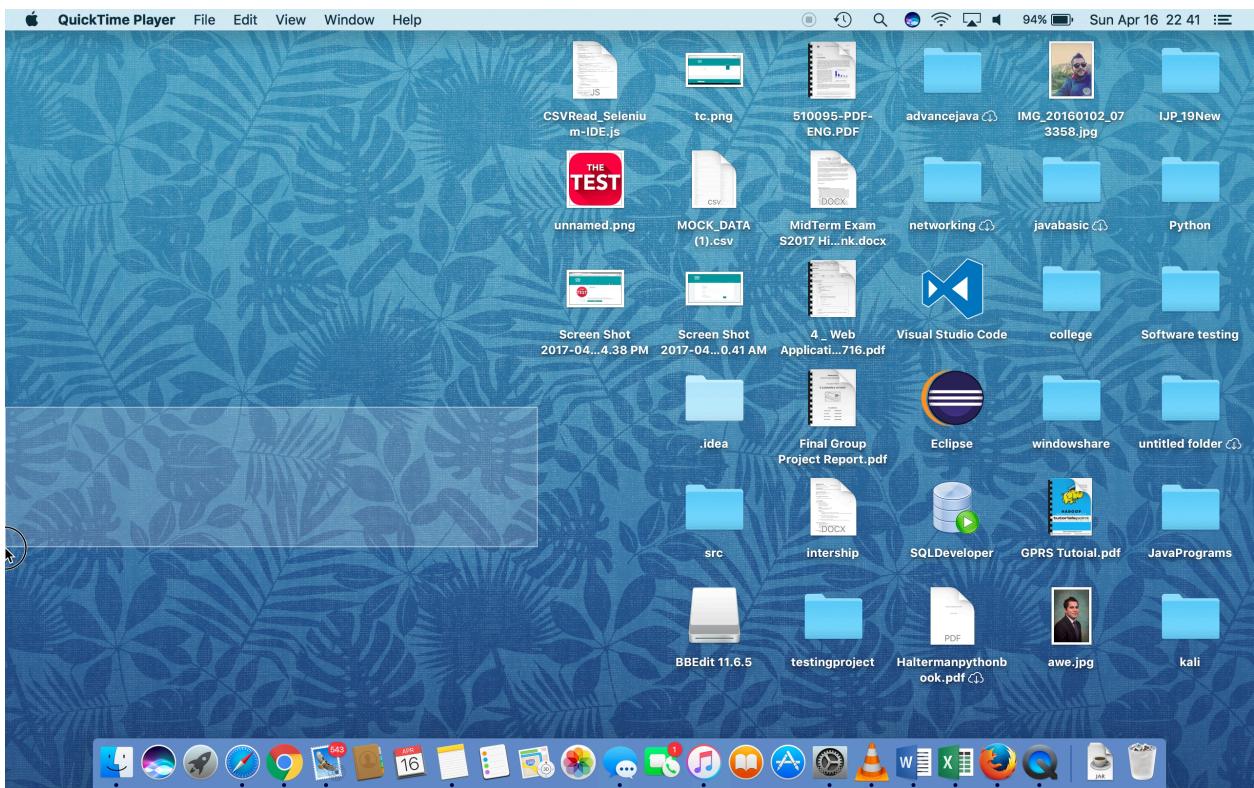
Able to redirect user profile without password with help of poor session.

STEPS TO REPRODUCE:

1. Open url: <https://www.arduino.cc/>
2. Login with Username “TEST11” and password “qwert123456”
3. Now click on home page
4. On top right corner you can see user logged out.
5. Click on Sign-in
6. Use TEST11 as user name and password as qwert123456
7. Shows wrong password
8. Click on reset password and enter username as “TEST11”
9. Click on “here” shown with command “if you are not automatically redirected in 30 seconds, click here”.

COMMENTS:

ATTACHMENTS:



1.

2.

For evaluators use only

DEFECT STATUS: APPROVED REJECTED

REASON: _____

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC33		
Component	Project upload		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Functional Testing		
Pre-Conditions	Mozilla Firefox installed on windows OS		
Inputs	1. https://www.arduino.cc/ 2. click on Blog 3. Select “Submit your project” 4. Click on upload image 5. Try to add picture using grab button.		
Expected Outputs	Redirects us to appropriate page		
Post-Conditions	Google chrome should not crash and should run smoothly		
Execution History	Date	Result	Tester
	19/April/2017	Defect found	Himank Vats
	20/April/2017	Defect found	Abhilash Adem

DEFECT REPORTING FORM

DEFECT ID: DC06

TITLE: Submit-project

<https://www.arduino.cc/>

REPORTED BY: Abhilash Adem

REPORTED ON: 20/April/2017

COMPONENT:

SUBCOMPONENT: Blog

VERSION: @2017

PLATFORM: Mozilla Firefox

OPERATING SYSTEM: Windows 10

RELATED TEST CASE IDS: TC33

RESOLUTION PRIORITY: P2

RESOLUTION SEVERITY: S3

CONSISTENCY: Often

DEFECT SUMMARY:

Grab button functionality is not working.

STEPS TO REPRODUCE:

1. Open url: <https://www.arduino.cc/>
2. Select Blog tab
3. Click on submit your project
4. Click on Grab an image
5. Select picture and click on grab,
6. Image is not detected
7. Opens one more hidden modal with no image to grab
8. Grab button stays inactive

COMMENTS:

ATTACHMENTS:

1.

Project name Make it sound cool!

Elevator pitch



Cover image 

This should be your nicest picture for this project. Please keep it simple! While it might be tempting to add banners or extra text to your image, we recommend avoiding it. Your image will be cropped to 4:3 format. 1200x900px or higher recommended.

2.

For evaluators use only

DEFECT STATUS: APPROVED REJECTED

REASON: _____

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC34		
Component	Store Contact		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Compatibility testing		
Pre-Conditions	Mozilla Firefox on windows		
Inputs	1. https://www.arduino.cc/ 2. Click on Support 3. Select Store support		
Expected Outputs	Opens appropriate details page		
Post-Conditions	All the information should be accepted		
Execution History	Date	Result	Tester
	19/April/2017	Defect found	Himank Vats
	20/ April/2017	Defect found	Abhilash Adem

DEFECT REPORTING FORM

DEFECT ID: DC07

TITLE: Store support

REPORTED BY: Himank Vats

REPORTED ON: 19/April/2017

COMPONENT: <https://www.arduino.cc/>

SUBCOMPONENT: Blog

VERSION: @2017

PLATFORM: Mozilla Firefox

OPERATING SYSTEM: Windows 10

RELATED TEST CASE IDS: TC34

RESOLUTION PRIORITY: P1

RESOLUTION SEVERITY: S1

CONSISTENCY: Regular

DEFECT SUMMARY:

Store form have missing text box to take valid input from user

STEPS TO REPRODUCE:

1. Open url: <https://www.arduino.cc/>
2. Select support
3. Click on Store support
4. Page redirects to buy and store- support

COMMENTS:

Form does not contain same information that were asked on other browser.

ATTACHMENTS:

1. On Mozilla Firefox Windows

The screenshot shows the Arduino Store Support page. At the top, there's a navigation bar with links for HOME, BUY, SOFTWARE, PRODUCTS, LEARNING, FORUM, SUPPORT, and BLOG. Below the navigation bar, the URL https://store.arduino.cc/store-support is visible. The main content area has a heading "How can we help you? Please submit your request using this form." followed by a form with fields for Question Type (a dropdown menu showing "Please choose one"), Order Number / Tracking Number (an input field), Subject (an input field), and Message (a large text area). A "SEND!" button is located at the bottom right of the form.

2. On Google Chrome Mac OS

The screenshot shows the same Arduino Store Support page as above, but viewed in Google Chrome on Mac OS. The interface looks slightly different due to the browser's design, but the form fields for Question Type, Order Number / Tracking Number, Subject, and Message are present, along with the "SEND!" button.

For evaluators use only

DEFECT STATUS: _____ APPROVED _____ REJECTED

REASON: _____

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC35		
Component	Page padding		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Usability Testing		
Pre-Conditions	Mozilla Firefox on Windows 10		
Inputs	1. Open https://www.arduino.cc/en/Main/ArduinoBoardMini 2. Reduce the screen size		
Expected Outputs	Buttons should not overlap		
Post-Conditions	Screen size should not affect page padding		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

DEFECT REPORTING FORM

DEFECT ID: DC09

TITLE: Page padding

<https://www.arduino.cc/en/Main/ArduinoBoardMini>

REPORTED BY: Abhilash Adem

REPORTED ON: May/10/2017

COMPONENT:

SUBCOMPONENT: Blog

VERSION: @2017

PLATFORM: Mozilla Firefox

OPERATING SYSTEM: Windows 10

RELATED TEST CASE IDS: TC35

RESOLUTION PRIORITY: P1

RESOLUTION SEVERITY: S1

CONSISTENCY: Regular

DEFECT SUMMARY:

Page buttons are overlapping on the page content.

STEPS TO REPRODUCE:

1. Open url: <https://www.arduino.cc/en/Main/ArduinoBoardMini>
2. Select support
3. Click on Store support
4. Page redirects to buy and store- support

COMMENTS:

(This field is currently empty.)

ATTACHMENTS:



Arduino
Mini

[Overview](#)

[Technical Specs](#)

[Documentation](#)

The Arduino
Mini is a very
compact
version of the
Arduino Nano
without an
on-board USB
to Serial
connection

[Overview](#)

3V 8 bit 16 MHz

SERIAL AV

The Arduino Mini is a small microcontroller
board originally based on the Arduino Uno, but
now supplied with the 328 (datasheet),
intended for use on breadboards and when
space is at a premium. It has 14 digital
input/output pins (of which 6 can be used as
PWM outputs), 8 analog inputs, and a 16 MHz
crystal oscillator. It can be programmed with

1. [Arduino IDE](#)
2. [AVR-GCC](#)

For evaluators use only

DEFECT STATUS: APPROVED REJECTED

REASON: _____

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC36		
Component	Search		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Automation testing		
Pre-Conditions	Mozilla Firefox on Windows 10		
Inputs	1. Open https://www.arduino.cc/ 2. Attach the CSVreader extension to make .xml file read 3. Use the test script as mentioned below		
Expected Outputs	Search should be successful.		
Post-Conditions	Should not throw error		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

Testing script:

TCS		
store	id=form	loop
store	1	i
while	\${i}<4	
open	https://store.arduino.cc/usa/	
readCSV	file:\C:/Users/Bhavani/Desktop/New folder (2)/Test.csv	
storeCellValue	names	\${i},1
echo	\${names}	
click	css=#searchform > input[name="q"]	
type	xpath=(//input[@name='q'])[2]	\${names}

TCS		
keyPress	xpath=(//input[@name='q'])[2]	\13
storeEval	\${i}+1	i
endWhile	id=top	

Screenshot of successful test:

The screenshot displays a dual-pane interface. On the left, a web browser window shows the Arduino store's search results for 'C'. It lists two items: 'LittleBits Arduino Coding Kit' (sold out) and 'Bare Conductive – Flashing Card Set'. On the right, the Selenium IDE tool is open, showing the executed test case 'newSuccessfulTest' with its commands and log output.

Test Case: newSuccessfulTest

Command	Target	Value
store	id=form	loop
store	1	i
while	\$i<4	
open	https://store.arduino.cc/usa/	
readCSV	file:C:/Users/Bhavani/Desktop/...	
storeCellValue	names	\$i,1
echo	\$names	
click	css=searchform > input[name..]	
type	xpath=(//input[@name='q'])[2]	\$names
keyPress	xpath=(//input[@name='q'])[2]	\13
storeEval	\${i}+1	i
endWhile	id=top	

Log Output:

```

[info] Executing: |store| id=form
[info] script is: loop
[info] Executing: |store| 1
[info] script is: i
[info] Executing: |while| $i<4 |
[info] [selblocks] branch => @3: [while|$i<4]
[info] Executing: |while| $i<4 |
[info] [selblocks] branch => @12: [endWhile|id=top]
[info] Executing: |endWhile| id=top |
[info] Test case passed

```

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC37		
Component	Store support		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Automation testing		
Pre-Conditions	Mozilla Firefox on Windows 10		
Inputs	1. Open https://www.arduino.cc/ 2. Follow the test script mentioned in script		
Expected Outputs	Should throw error and should not redirect when no input is redirected.		
Post-Conditions	Should throw error		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

Test Script:

Store Support2		
open	/	
clickAndWait	css=a.logo-link	
clickAndWait	link=Store Support	
select	name=destination	label=Modify order
type	name=subject	asd
type	name=contents	sadasd
clickAndWait	css=button.medium.button	
type	name=order_number	asda
clickAndWait	css=button.medium.button	

Screenshot of result:

The screenshot shows the Selenium IDE interface with a test case named "editdetails". The left pane displays a web browser window for "Store Support" at <https://store.arduino.cc/>. The right pane shows the test case details.

Test Case: editdetails

Table: Source

Command	Target	Value
open	/	
clickAndWait	css=a.logo-link	
clickAndWait	link=Store Support	
select	name=destination	label=Modify order
type	name=subject	asd
type	name=contents	sdasd
clickAndWait	css=button.medium.button	
type	name=order_number	asda
clickAndWait	css=button.medium.button	

Log

```
[info] Executing: |clickAndWait| link=Store Support |
[info] Executing: |select| name=destination |label=Modify order |
[info] Executing: |type| name=subject |asd |
[info] Executing: |type| name=contents |sdasd |
[info] Executing: |clickAndWait| css=button.medium.button || 
[error] Timed out after 30000ms
[info] Executing: |type| name=order_number |asda |
[info] Executing: |clickAndWait| css=button.medium.button ||
```

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC38		
Component	Project Upload- Checking picture upload		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Automation testing		
Pre-Conditions	Mozilla Firefox on Windows 10		
Inputs	1. Open https://www.arduino.cc/ 2. Select Blog and submit project 3. Follow the test script mentioned in script		
Expected Outputs	Should be able to upload image successfully.		
Post-Conditions	Should not throw any error.		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

Test Script:

Image upload		
open	/	
click	css=img	
clickAndWait	link=Blog	
click	css=img[alt="Submit Your Project"]	
clickAndWait	css=span.text	
clickAndWait	name=commit	
type	id=base_article_name	Untitled test

Image upload

type	id=base_article_one_liner	test
click	link>Select picture	
type	LOCATOR_DETECTION_FAILED LED	C:\Users\Bhavani\Desktop\Capture4.PNG

Screenshot of successful test result:

Command	Target	Value
open	/	
click	css=img	
clickAndWait	link=Blog	
click	css=img[alt="Submit Your Proj..."]	
clickAndWait	css=span.text	
clickAndWait	name=commit	
type	id=base_article_name	Untitled test
type	id=base_article_one_liner	test
click	link>Select picture	
type	LOCATOR_DETECTION_FAILED	C:\Users\Bhavani\Desktop\Capt...

Logs:

```

type(locator,value)
Arguments:
  • locator - an element locator
  • value - the value to type
Sets the value of an input field, as though you typed it in.

Can also be used to set the value of combo boxes, check boxes, etc. In these cases, value should be the value of the option selected, not the visible text.

```

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC39		
Component	Buy- Add to cart feature		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Automation testing		
Pre-Conditions	Mozilla Firefox on Windows 10		
Inputs	1. Open https://www.arduino.cc/ 2. Select Buy 3. Follow the test script		
Expected Outputs	Should be able to add product to cart		
Post-Conditions	Should not throw any error.		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/ April/2017	No defect found	Abhilash Adem

Test Script:

Addtocart		
open	/	
clickAndWait	css=a.logo-link	
clickAndWait	link=Buy	
click	css=li.has-submenu.open > div.bullet-icon	
clickAndWait	css=li.has-submenu.open > ul.category-sub-menu > li > a	
clickAndWait	css=div.product-info-wrapper > a.product-image > img[alt="Hummingbird Duo Controller Kit"]	
click	//button[@type='button']	
clickAndWait	link=Go to cart	
clickAndWait	name=update_cart_action	
type	name=cart[6785][qty]	10

Addtocart

clickAndWait name=update_cart_action

Screenshot of successful test result:

The screenshot shows a web browser window with a test runner interface on the right and a product page on the left.

Test Runner (Right):

- Test Case:** Untitled * (selected)
- Table:** Shows a list of test steps:

Command	Target	Value
open	/	
clickAndWait	css=a.logo-link	
clickAndWait	link=Buy	
click	css=li.has-submenu.open > div...	
clickAndWait	css=li.has-submenu.open > ul.c...	
clickAndWait	css=div.product-info-wrapper >...	
click	//button[@type='button']	
clickAndWait	link=Go to cart	
type	name=cart[6785][qty]	300
clickAndWait	name=update_cart_action	
type	name=cart[6785][qty]	1
clickAndWait	name=update_cart_action	

- Logs:** Shows the generated clickAndWait(locator) command and its arguments.

Product Page (Left):

The page displays a product: "Hummingbird Duo Controller Kit". It shows a quantity of 11 selected, a total price of €869.00, and a "UPDATE CART" button. Below the button, it says "ESTIMATE SHIPPING > €869.00 Taxes and shipping not included".

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC40		
Component	Follow feature for user		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Automation testing		
Pre-Conditions	Mozilla Firefox on Windows 10		
Inputs	1. Open https://www.arduino.cc/ 2. Select Forum 3. Follow the script.		
Expected Outputs	Should be able to follow other user		
Post-Conditions	Should not throw any error.		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

Test Script:

follow	
open	/
clickAndWait	link=Blog
click	css=img[alt="Submit Your Project"]
clickAndWait	css=a.create-logo
clickAndWait	css=div.project-38782 > div.thumb.project-thumb > div.thumb-image.has-link-overlay > a.link-overlay.project-link-with-ref
click	//section[@id='team']/div/div/div/button
click	//section[@id='team']/div/div/div/div/button
clickAndWait	css=a.placeholder-pic
click	link=Public projects2
click	//div[@id='user-profile-box']/div/div[2]/div/button

Screenshot of successful test result:

The screenshot displays a browser window with the Arduino Project Hub interface on the left and a testing tool's interface on the right.

Left Side (Arduino Project Hub):

- Header: PROJECT HUB
- User Profile: MakrToolbox
- Statistics: 2 PROJECTS, 1 FOLLOWER
- Following: ✓ FOLLOWING
- Project Categories:
 - Public projects (2)
 - Toolbox (6)
 - Replicated projects (0)
 - Respected projects (3)
 - Comments (0)
- Bottom: Public projects (2)

Right Side (Testing Tool):

- Base URL: https://blog.arduino.cc/
- Toolbar: Fast, Slow, Run, Stop, etc.
- Test Case List:
 - Untitled *
 - Addtocart
 - Untitled 2 *
- Table View:

Command	Target	Value
open	/	
clickAndWait	link=Blog	css=img[alt="Submit Your Proj...
click	css=a.create-logo	
clickAndWait	css:div.project-38782 > div.thu...	
click	//section[@id='team']/div/div/d...	
click	//section[@id='team']/div/div/d...	
clickAndWait	css=a.placeholder-pic	
click	link=Public projects2	
click	//div[@id='user-profile-box']/di...	
- Run Statistics: Runs: 1, Failures: 1
- Log Tab: type(locator, value)
Arguments:
 - locator - an element locator
 - value - the value to type

Sets the value of an input field, as though you typed it in.
Can also be used to set the value of combo boxes, check boxes, etc. In these cases, value should be the value of the option selected, not the visible text.

FUNCTIONAL TEST CASE REPORTING FORM

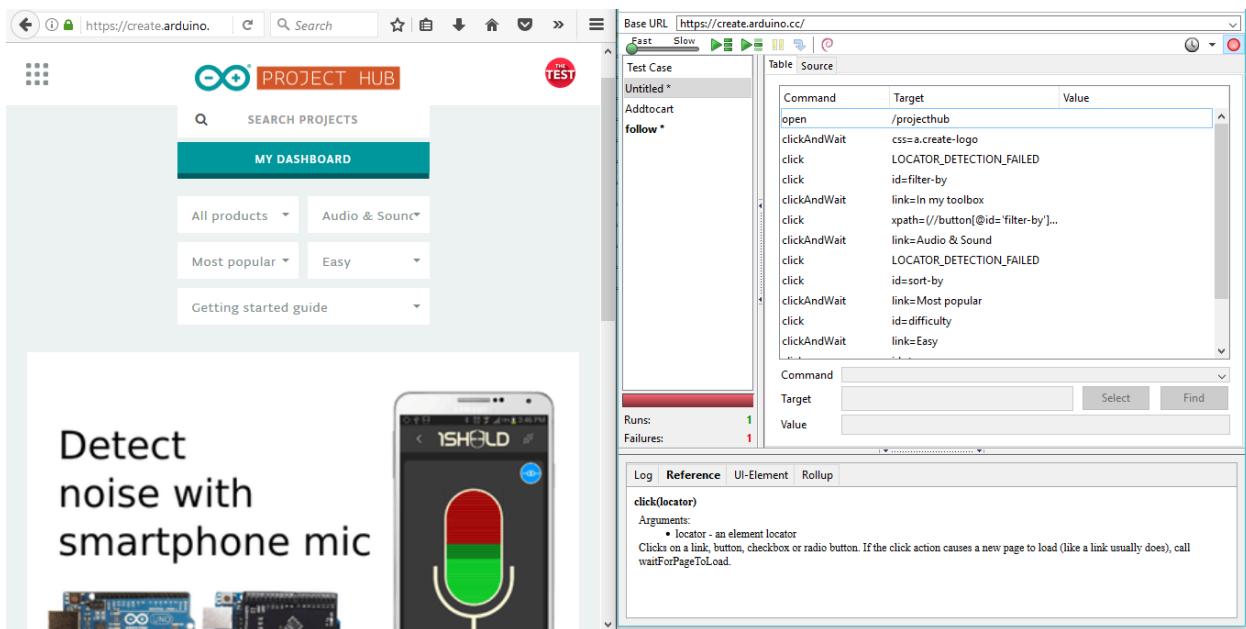
Test Case ID	TC41		
Component	Project- filter are working or not		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Automation testing		
Pre-Conditions	Mozilla Firefox on Windows 10		
Inputs	1. Open https://www.arduino.cc/ 2. Select Fourm 3. Follow the test script mentioned in script		
Expected Outputs	Should be able to apply filters correctly		
Post-Conditions	Should not throw any error.		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

Test Script:

Filters	
open	/projecthub
clickAndWait	css=a.create-logo
click	LOCATOR_DETECTION_FAILED
click	id=filter-by
clickAndWait	link=In my toolbox
click	xpath=(//button[@id='filter-by'])[2]
clickAndWait	link=Audio & Sound
click	LOCATOR_DETECTION_FAILED
click	id=sort-by
clickAndWait	link=Most popular

Filters	
click	id=difficulty
clickAndWait	link=Easy
click	id=type
clickAndWait	link=Getting started guide

Screenshot of successful test result:



The screenshot shows a browser window with a test runner interface. The left side displays the [Arduino Project Hub](https://create.arduino.cc/) website. The right side shows the test runner's interface.

Test Runner Interface:

- Base URL:** https://create.arduino.cc/
- Test Case:** Untitled *
- Table:**

Command	Target	Value
open	/projecthub	css=a.create-logo
clickAndWait	css=a.create-logo	LOCATOR_DETECTION_FAILED
click	id=filter-by	id=difficulty
click	link>In my toolbox	link=Easy
clickAndWait	xpath=//button[@id=filter-by]...	link=Audio & Sound
click	link=Audio & Sound	LOCATOR_DETECTION_FAILED
click	id=sort-by	id=sort-by
clickAndWait	link=Most popular	link=Most popular
click	id=difficulty	id=difficulty
clickAndWait	link=Easy	link=Easy
- Logs:**
 - Runs: 1
 - Failures: 1
- Log:** click(locator)
- Arguments:**
 - locator - an element locator

Clicks on a link, button, checkbox or radio button. If the click action causes a new page to load (like a link usually does), call `waitForPageToLoad`.

FUNCTIONAL TEST CASE REPORTING FORM

Test Case ID	TC42		
Component	Personal Information		
Purpose of Test Case	To check if the components give appropriate result after test case execution		
Functional Test Type	Automation testing		
Pre-Conditions	Mozilla Firefox on Windows 10		
Inputs	1. Login to profile with UserID = TEST11 2. Use password = qwerty123456 3. Follow the test script mentioned in script		
Expected Outputs	Should be able to give link to social media pages and it should redirect to them		
Post-Conditions	Should not throw any error.		
Execution History	Date	Result	Tester
	19/April/2017	No defect found	Himank Vats
	20/April/2017	No defect found	Abhilash Adem

Test Script:

fb			
open	/		
clickAndWait	css=ul.nav-right > li.level-1 > div.login-button > a		
clickAndWait	link=exact:Forgot your password?		
clickAndWait	link=Login		
clickAndWait	link=here		
type	name=old_password	qwerty123456	
click	link>Edit personal info		
click	css=section.second > p.title > a > span.hide-for-small		

fb		
type	css=input.ng-valid.ng-dirty	https://www.facebook.com/
click	xpath=(//button[@type='submit'])[2]	
click	css=div.reveal-modal-bg	
click	link= facebook.com/https://www.facebook.com/	

Screenshot of successful test result:

The screenshot displays a browser window with a test runner overlay. The main content on the left is a user profile page from 'id.arduino.cc'. The right side shows the 'Test Case' runner interface with the following details:

Test Case: Untitled *

Commands Executed:

Command	Target	Value
open	/	
clickAndWait	css=ul.nav-right > li.level-1 > di...	
clickAndWait	link=exactForgot your password?	
clickAndWait	link=Login	
clickAndWait	link=here	
type	name=old_password	qwerty123456
click	link>Edit personal info	
click	css=section.second > p.title > a ...	
type	css=input.ng-valid.ng-dirty	https://www.facebook.com/
click	xpath=(//button[@type='submit'])[2]	
click	css=div.reveal-modal-bg	
click	link=facebook.com/https://ww...	

Run Summary:

- Runs: 1
- Failures: 1

Tooltip for 'type(locator, value)' command:

Arguments:

- locator - an element locator
- value - the value to type

Sets the value of an input field, as though you typed it in.

Can also be used to set the value of combo boxes, check boxes, etc. In these cases, value should be the value of the option selected, not the visible text.