

Automation Coding Challenge

Introduction :

SDET or a Engineering Manager in Quality, we are pretty hands on when it comes to Quality.

In this assignment, we are looking to see your design and coding skills to see how well you can take care of Quality - within the quality department.

We provide a single automation assignment in this exercise and goal is to see if you can design a clean UI automation solution around it. The only requirement is to use Java as the core programming language (since that is the language of choice we have decided to go forward with). You can use any automation tool/library of your choice - we like selenium but feel free to take your pick.

If you like, we also provide you a base (vanilla) test framework here so that you can directly get started writing tests, rather than setting up framework.

You can clone the framework from here: <https://github.com/ClipboardHealth/vanilla>

Note: Base (vanilla) framework is to help you get things faster - "if you want to". However we realize, sometimes you may like to use your own tool set, in which case you are free to do so - with no marks deducted - so feel free to pickup whatever you like :).

One request, don't use any low code or licensed automation tools.

Problem statement : Web Automation

What we expect from this assignment ?

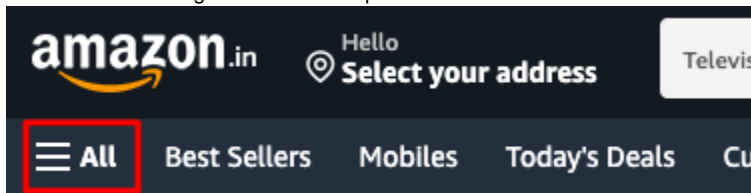
- Completion of the assignment.
- Test should run and pass in chrome browser.
- Platform independent. (It should run on windows, mac or linux)
- Better page layer management.
- Helper methods for page interactions like click, sendkeys.
- Readable and clean code.
- Clear instructions about the framework and how to execute in the readme file.
- Commits history to see how you have approached the problem.
- Following good design principles.

What can get you closer to the job ?

- Unit tests if applicable.
- Framework having the provision to run the test in local or selenium grid/selenoid.
- Dockerizing the framework itself. (Build a docker image for the automated tests)
- Good design patterns wherever applicable.
- Anything that can help you to impress us.

Steps:

1. Open <https://www.amazon.in/>
2. Click on the hamburger menu in the top left corner.



3. Then Click on the TV, Appliances and Electronics.



Hello, Sign in

Trending

Best Sellers

New Releases

Movers and Shakers

Digital Content And Devices

Echo & Alexa



Fire TV



Kindle E-Readers & eBooks



Audible Audiobooks



Amazon Prime Video



Amazon Prime Music



Shop By Department

Mobiles, Computers



TV, Appliances, Electronics



Men's Fashion



Women's Fashion



4. Then click on Televisions.



Hello, Sign in



MAIN MENU

Tv, Audio & Cameras

Televisions

Home Entertainment Systems

Headphones

Speakers

Home Audio & Theater

5. Filter the results by Brand 'Samsung'

Delivery Day

☐ Get It in 2 Days

Department

< Electronics

< Home Theater, TV & Video

Televisions

Smart Televisions

Standard Televisions

Avg. Customer Review

★★★★★ & Up

★★★★☆ & Up

★★★☆☆ & Up

★★☆☆☆ & Up

Brands

< Clear

☒ Samsung

☐ OnePlus

☐ Acer

☐ LG

☐ MI

☐ VU

☐ eAirtec

6. Sort the Samsung results with price High to Low.

Televisions

Search

Hello, Sign in
Account & Lists

DealsCustomer ServiceElectronicsPrimeFashionBooksNew ReleasesHome & KitchenAmazon PayComputersCouponsToys & GamesSell

Laptops & AccessoriesTV & Home EntertainmentAudioCamerasComputer PeripheralsSmart TechnologyMusical Instruments

\$

Sort by: Price: High to Low

RESULTS

7. Click on the second highest priced item.

8. Switch the Window

9. Assert that "About this item" section is present and log this section text to console/report.



Roll over image to zoom in

Screen Size	55 inches
Supported Internet Services	Netflix, Prime Video, Zee5, SonyLiv, Youtube, Hotstar
Connector Type	Wi-Fi, USB, Ethernet, HDMI
Brand	Samsung
Resolution	4K
Display Technology	QLED

[See more](#)

About this item

- Resolution : 4K Ultra HD (3840 x 2160) | Refresh Rate : 120 Hertz
- Connectivity: 4 HDMI ports to connect set top box, Blu-ray speakers or a gaming console | 2 USB ports to connect hard drives or other USB devices | One Connect Box for all your connectivity needs
- Smart TV Features : Prime Video, Hotstar, Netflix, Zee5 and many more | PC Mode | Universal Guide | Web Browser | Screen Mirroring
- Sound: 60 Watts Output | Powerful Speakers with Dolby Digital Plus
- Display: 100% Color Volume | Quantum HDR | Quantum Processor | HLG | Mega Contrast | Supreme UHD Dimming
- Warranty Information: 1 manufacturer warranty and 1 year additional warranty on the panel from invoice date
- Installation: For requesting installation/wall mounting/demo of this product once delivered, please directly call Samsung support on [1800407267864 / 180057267864] and provide product's model name as well as seller's details mentioned on the invoice
- Easy Returns: This product is eligible for replacement within 10 days of delivery in case of any product defects, damage or features not matching the description

[See more product details](#)

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End of instructions