CGI – INFORMATION SYSTEMS AND MANAGEMENT CONSTULTANTS

Capstone Project on

Muzix App and Amazon UI Automation

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CONTENT

1. Objectives
2. Tools and Technologies
3. System Design and Features
4. Rest Assured APIs Testing
5. Amazon UI Automation
6. Test Scenarios
7. Testing Reports
8. Cucumber - BDD

Objectives

- To develop backend Rest APIs for Muzix application
- To test the APIs using postman and rest-assured
- To develop automation scripts that tests the UI functionality of amazon website

Tools and Technologies

MUZIX Database Design

Music Table:

Music_Id (PK)	Title (Unique)	Album	Artist	Genre
Autoincrement	String	String	String	String

User Table:

User_Id (PK)	UserName (Unique)	Email	Password	Image-url	Role
Autoincrement	String	String	MD5(String)	String	Admin/User

Favorite Table:

Fav_Id (PK)	User_Id	Music_Id	Title	Album	Artist	Genre
Autoincrement	Integer	Integer	String	String	String	String

Application Enpoints

HTTP	API ENDPOINT	Auth Failed	SUCCESS	FAIL CASE
POST	/muzix/admin/add	403	201	409
GET	/muzix/admin/2	403	200	404
PUT	/muzix/admin/1	403	200	400
DELETE	/muzix/admin/3	403	200	404
GET	/muzix/admin/all	403	200	404
POST	/user/signup	-	201	409
POST	/user/signin	-	200	500
GET	/muzix/all	403	200	404
GET	/muzix/{id}	403	200	404
GET	/muzix/album/{album_name}	403	200	404
GET	/muzix/artist/{artist_name}	403	200	404
GET	/muzix/genre/{genre_name}	403	200	404
POST	/muzix/favourite/{user_id}/{music_id}	403	201	409
DELETE	/muzix/favourite/{fav_id}	403	200	400
GET	/muzix/favourite/{user_id}	403	200	404

RestAssured
Api testing

Success TestCases

Status: 200,201

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Suite							
SuccessCase	15	0	0	0	1,591		

Class	Method	Start	Time (ms)
Suite			
SuccessCase — passed			
com.group6.MuzixRestAssured.AdminMusicController	**AddNewMusic**	1694582055153	1156
	DeleteMusicById	1694582056440	31
	GetMusicById	1694582056363	32
	ListAllMusic	1694582056313	49
	UpdateMuiscById	1694582056396	43
com.group6.MuzixRestAssured.Authentication	**Admib_Login**	1694582056697	13
	Admin_SignUp	1694582056679	17
com.group6.MuzixRestAssured.MusicRecommendation	**GetMusicForUserById**	1694582056569	16
	ListMusicForUser	1694582056586	18
	searchByAlbum	1694582056605	27
	searchByArtist	1694582056633	22
	searchByGenre	1694582056656	22
com.group6.MuzixRestAssured.UserFavouritePlaylist	**AddToFavouritePlaylist**	1694582056473	39
	ListAllMyFavourites	1694582056514	22
	RemoveMusicFromFavourite	1694582056538	30

SuccessCase

Failed TestCases

Status:

403, 400

404, 409

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Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Suite							
Failedtesting	17	0	0	0	1,343		

Class	Method	Start	Time (ms)
Suite			
Failedtesting — passed			
com.group6.MuzixRestAssured.AdminMusicControllerFailedCases	DeleteMusicById	1694581246856	15
	GetMusicById	1694581246872	21
	ListAllMusic	1694581246894	23
	UpdateMuiscById	1694581246919	16
com.group6.MuzixRestAssured.AuthenticationFailedCases	Admib_Login_Fail	1694581246686	22
	Admin_SignUp_Fail	1694581246656	29
	ListAllMusic	1694581245622	992
	ListAllMyFavourites	1694581246616	20
	ListMusicForUser	1694581246639	15
com.group6.MuzixRestAssured.MusicRecommendationFailedCases	GetMusicForUserById	1694581246710	19
	ListMusicForUser	1694581246730	16
	searchByAlbum	1694581246747	16
	searchByArtist	1694581246764	15
	searchByGenre	1694581246780	15
com.group6.MuzixRestAssured.UserFavouriteFailedCases	AddToFavouritePlaylist	1694581246796	23
	ListAllMyFavourites	1694581246820	14
	RemoveMusicFromFavourite	1694581246835	20

Failedtesting

UI Automation

AMAZON

https://amazon.in

Test Scenarios

1. Searching products

2. Changing language

3. User login

4. Add product to cart

5. Checkout Process

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1. Searching Product

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Status ⚠ Dashboard ⏻ Search 🔍

Tests

4 test(s) passed

0 test(s) failed, **0** skipped

Search Product by Category: mobile	
Sep 12, 2023 06:15:50 PM	Pass

Search Product by Category: Laptop	
Sep 12, 2023 06:16:11 PM	Pass

Search Product by Category: Headphones	
Sep 12, 2023 06:16:23 PM	Pass

Search Product by Category: Pendrive	
Sep 12, 2023 06:17:02 PM	Pass

Search Product by Category: mobile

Sep 12, 2023 06:15:50 PM   Sep 12, 2023 06:16:10 PM   0h 0m 20s+832ms

Status	Timestamp	Details
✅	6:16:10 PM	Product is in stock for keyword: mobile

2. Changing language

Tests

Lauch Browser ✓

0h 0m 19s+667ms

19:29:22 PM

Lauch Browser

`09.12.2023 19:29:22` `09.12.2023 19:29:41` `0h 0m 19s+667ms`

STATUS	TIMESTAMP	DETAILS
✔	7:29:41 PM	pass
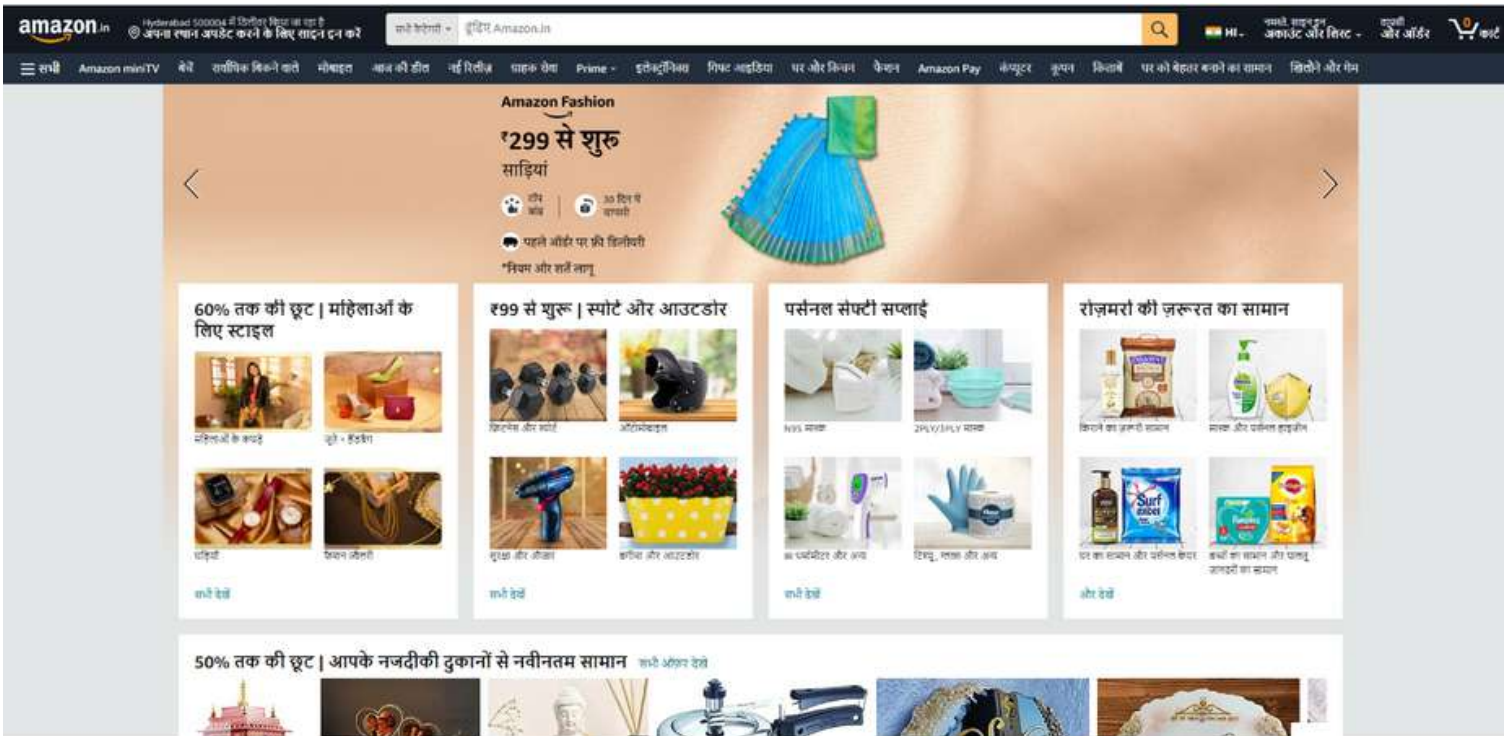
3. User Login

Tests ⓘ

✅ **Login Test**
0h 0m 5s+630ms   19:27:24 PM

Login Test

`09.12.2023 19:27:24` `09.12.2023 19:27:29` `0h 0m 5s+630ms`

STATUS	TIMESTAMP	DETAILS
✔	7:27:29 PM	Pass
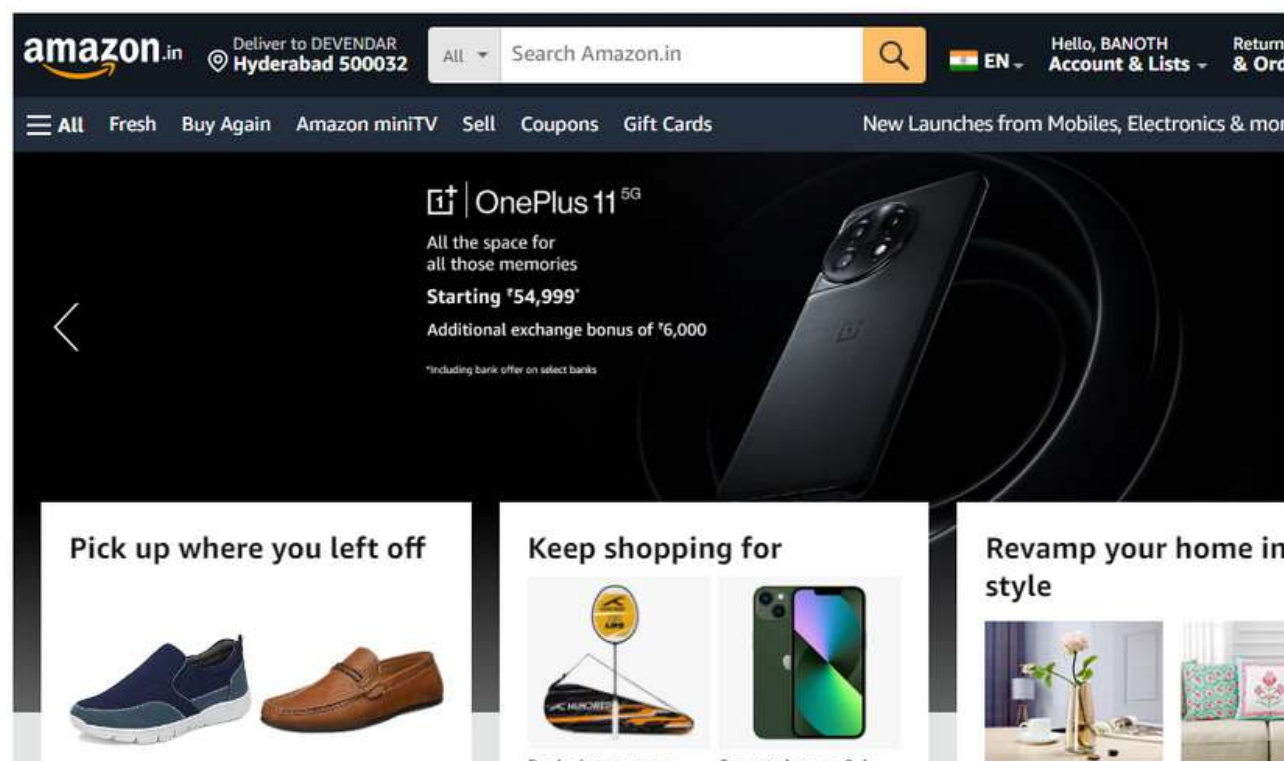
4. Add Product to cart

Tests

✓ Added to cart   21:06:33 PM
  0h 0m 21s+582ms

Added to cart

`09.11.2023 21:06:33` `09.11.2023 21:06:55` `0h 0m 21s+582ms`

STATUS	TIMESTAMP	DETAILS
✔	9:06:55 PM	Added to cart page is displayed

5. Checkout Process

Tests   ⊘

✓ **Place an Order**   19:23:29 PM
   0h 0m 40s+10ms

Place an Order

09.12.2023 19:23:29	09.12.2023 19:24:09	0h 0m 40s+10ms

STATUS	TIMESTAMP	DETAILS
✔	7:24:09 PM	Checkout Process done

amazon.in   Checkout   🔒

1 **Delivery address**   DEVENDAR BANOTH   Change
                          #105
                          RR mens pg, Aphb colony, Gachibowli
                          HYDERABAD, TELANGANA 500032
                          Add delivery instructions

2 **Payment method**   Pay on delivery (Cash/Card)   Change
                          ⌃ Add a gift card or promotion code
                          [Enter Code]   [Apply]

3 **Offers**

[Place your order]   **Order Total: ₹725.00**
                       By placing your order, you agree to Amazon's privacy notice and conditions of use.

Place your order
By placing your order, you agree to Amazon's
privacy notice and conditions of use.

Order Summary
Items: ₹725.00
Delivery: ₹40.00
Total: ₹765.00
Promotion Applied: -₹40.00

Order Total: **₹725.00**

Your Savings: ₹ 510.00 (41%)
• FREE Delivery
• Item discount
Details ⌄

How are delivery costs calculated?
Why didn't I qualify for FREE Delivery?

Need help? Check our help pages or contact us

When your order is placed, we'll send you an e-mail message acknowledging receipt of your order. If you choose to pay using an electronic payment method (credit card, debit card or net banking), you will be directed to your bank's website to complete your payment. Your contract to purchase an item will not be complete until we receive your electronic payment and dispatch your item. If you choose to pay using Pay on Delivery (POD), you can pay using cash/card/net banking when you receive your item.

See Amazon.in's Return Policy.

Need to add more items to your order? Continue shopping on the Amazon.in homepage.

Testing Reports

- Extent Reports
- ExtentSparkReporter
- TakesScreenshot

Cucumber – BDD

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Thank You