



A Project Report
on
Automation testing using Selenium Webdriver
on
BIGHIT ENTERTAINMENT Website
By

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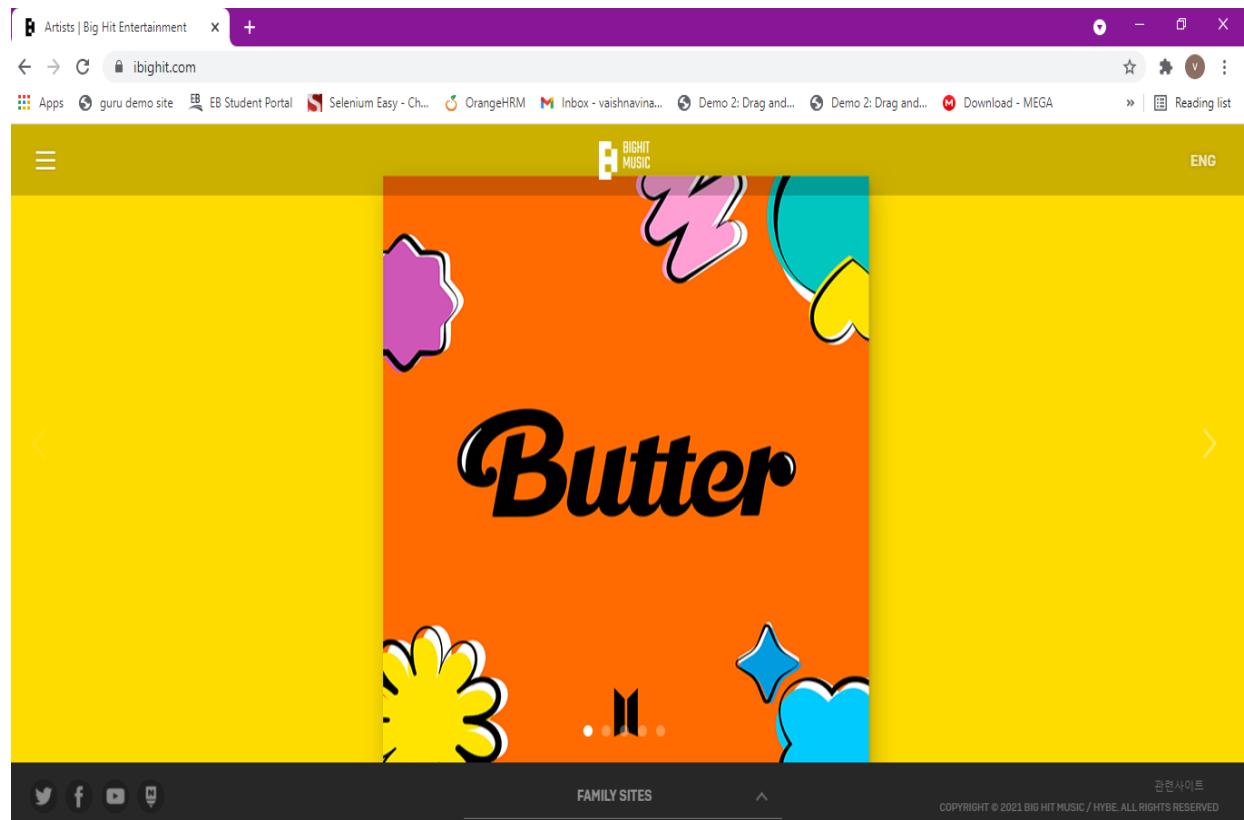
Introduction

This Project aims to do overall testing like functional testing, GUI testing on website to check quality of application. It helps to improve quality of website and saves time for manually doing this testing. In this project our main focus is to check functionalities available on website. Also it includes title check and all links count with their working status.

Operating System	:	Window 10
Browser	:	Google Chrome Version 89.0.4389.90
IDE	:	Eclipse IDE 8.1
Language	:	Java
Framework	:	Selenium Webdriver

TESTCASES

TC01: Launch the browser and open the Bighit Entertainment Website



Code:

```
System.setProperty("webdriver.gecko.driver", "C:\\\\Users\\\\USER\\\\Desktop\\\\selenium JAR\\\\geckodriver.exe");

WebDriver w1 = new FirefoxDriver();

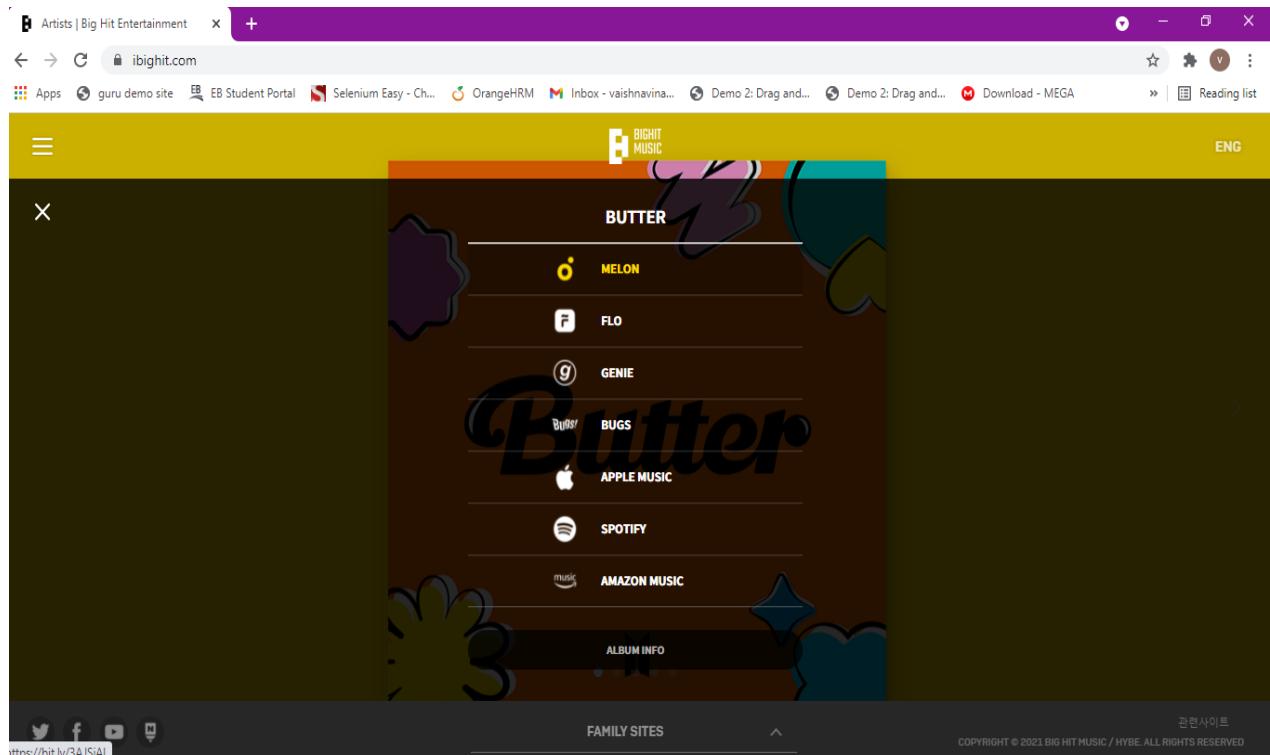
w1.get("https://www.google.com");

//enter URL
w1.navigate().to("https://ibighit.com/");
//right scroll

w1.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();

Thread.sleep(2000);
```

TC02: Click on butter image to open Contents bar



Code:

```
System.setProperty("webdriver.gecko.driver", "C:\\\\Users\\\\USER\\\\Desktop\\\\selenium JAR\\\\geckodriver.exe");
```

```
WebDriver w1 = new FirefoxDriver();  
  
w1.get("https://www.google.com");  
  
//enter URL  
  
w1.navigate().to("https://ibighit.com/");
```

```
w1.findElement(By.className("contents-obj")).click();
```

```
Thread.sleep(2000);
```

TC03: Open MELON page

Album Detail Page Screenshot:

Album: Butter / Permission to Dance
Artist: 방탄소년단
Release Date: 2021.07.09
Genre: 댄스
Distributor: YG PLUS
Record Label: BIGHIT MUSIC
Rating: 4.6 (18,037 reviews)
Comments: 8,292
Shares: 4,1073

Code:

```
w1.findElement(By.className("contents-obj")).click();  
Thread.sleep(2000);  
  
w1.findElement(By.linkText("MELON")).click();  
Thread.sleep(4000);
```

TC04: Open FLO page

FLO

돌려보기 보관함 이용권

검색어를 입력하세요.

FLO 소개 로그인 회원가입

▶ 전체듣기

번호	곡/앨범	아티스트	듣기	재생목록	내 리스트	더보기
1	Butter Butter / Permission to Dance	방탄소년단	▶	☰+	[+]	⋮
2	Permission to Dance Butter / Permission to Dance	방탄소년단	▶	☰+	[+]	⋮
3	Butter (Instrumental) Butter / Permission to Dance	방탄소년단	▶	☰+	[+]	⋮
4	Permission to Dance (Instrumental) Butter / Permission to Dance	방탄소년단	▶	☰+	[+]	⋮

재생목록이
비어있습니다

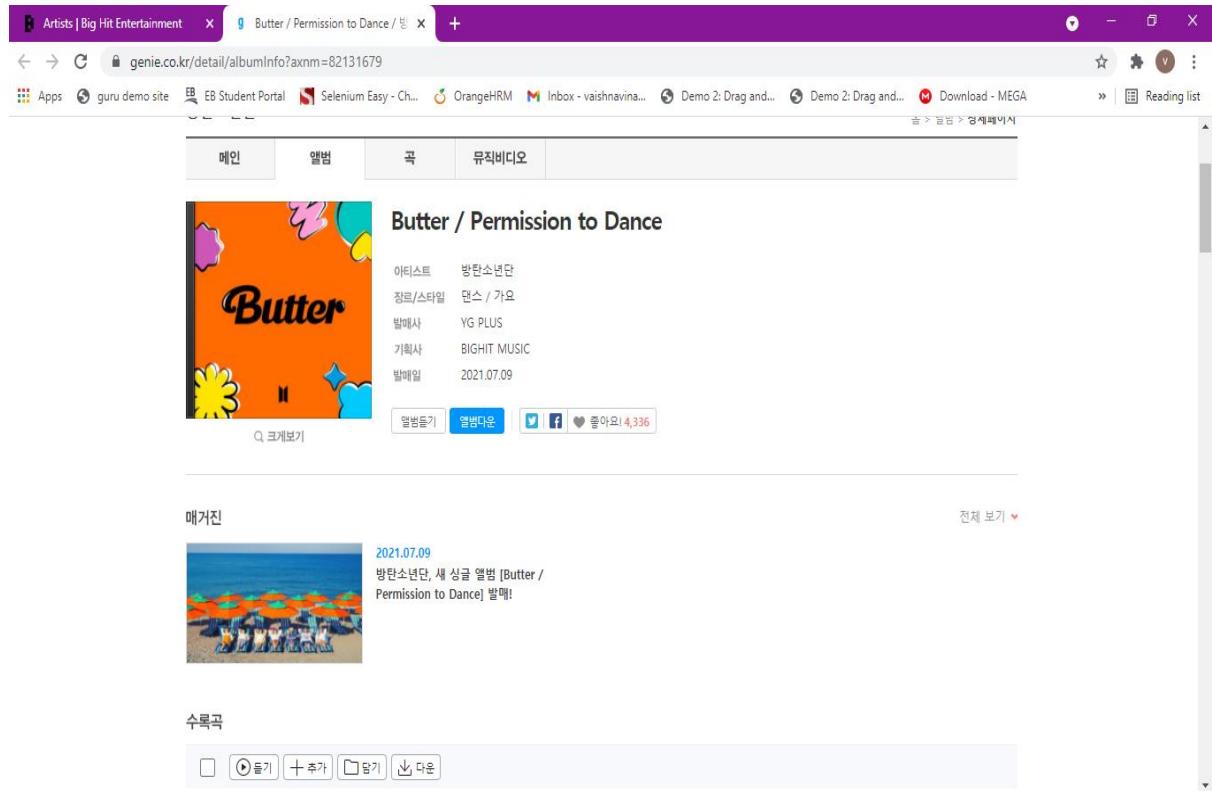
◀ ▶ ⏪ ⏩

00:00 00:00

Code:

```
w1.findElement(By.className("contents-obj")).click();  
Thread.sleep(2000);  
  
w1.findElement(By.linkText("FLO")).click();  
Thread.sleep(4000);
```

TC05: Open Genie page



Code:

```
w1.findElement(By.className("contents-obj")).click();  
Thread.sleep(2000);  
  
w1.findElement(By.linkText("GENIE")).click();  
Thread.sleep(2000);
```

TC06: Open BUGS page

The screenshot shows a web browser window with the title bar "Artists | Big Hit Entertainment" and "Butter / Permission to Dance - 뷔". The address bar shows the URL "music.bugs.co.kr/album/4055320?wl_ref=M_contents_01_04". The page content is the album page for "Butter / Permission to Dance" by BTS. It features a large image of the album cover, which is orange with the word "Butter" in white. To the right of the image, there is a summary of the album's details: Artist (BTS), Type (Single), Release Date (2021.07.09), Genres (Pop), Style (Dance Pop), Label (BIGHIT MUSIC), Distributor (YG PLUS), and Format (FLAC 16bit). Below the album details, there is a "좋아요" button with 1,025 likes, a "한마디" section with 331 comments, and social sharing buttons for Facebook, Twitter, and Kakao. On the left side of the main content area, there is a sidebar with various links: 벅스차트, 최신음악, 뮤직4U, 장르, 뮤직포스트, 테마, 뮤직PD 앨범, 추천앨범 리뷰, 연도별, and 커넥트. At the bottom of the sidebar, there is a link to "수록곡 (4)". The top of the page has a navigation bar with links like Apps, guru demo site, EB Student Portal, Selenium Easy - Ch..., OrangeHRM, Inbox - vaishnavina..., Demo 2: Drag and..., Demo 2: Drag and..., Download - MEGA, 고객센터, 게임, COMICO, 라켓링크, HANGAME, and 로그인 / 회원가입.

Code:

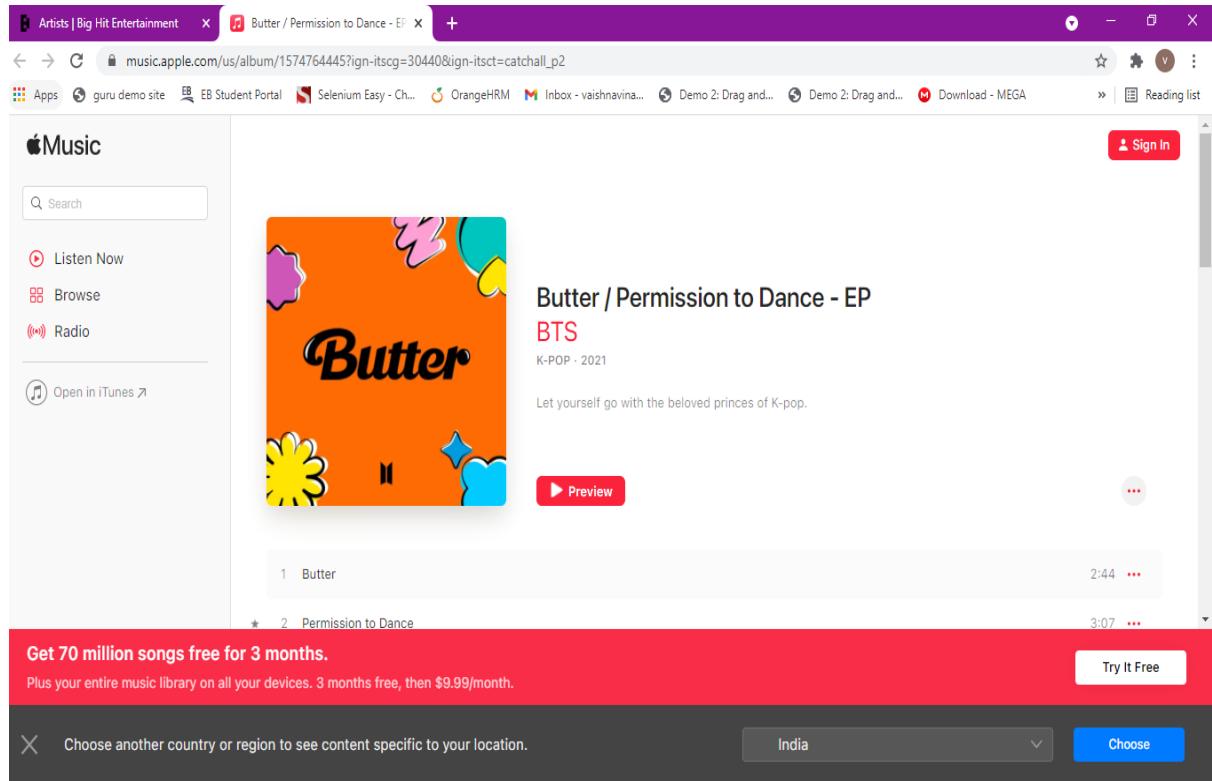
```
w1.findElement(By.className("contents-obj")).click();
```

```
Thread.sleep(2000);
```

```
w1.findElement(By.LinkText("BUGS")).click();
```

```
Thread.sleep(4000);
```

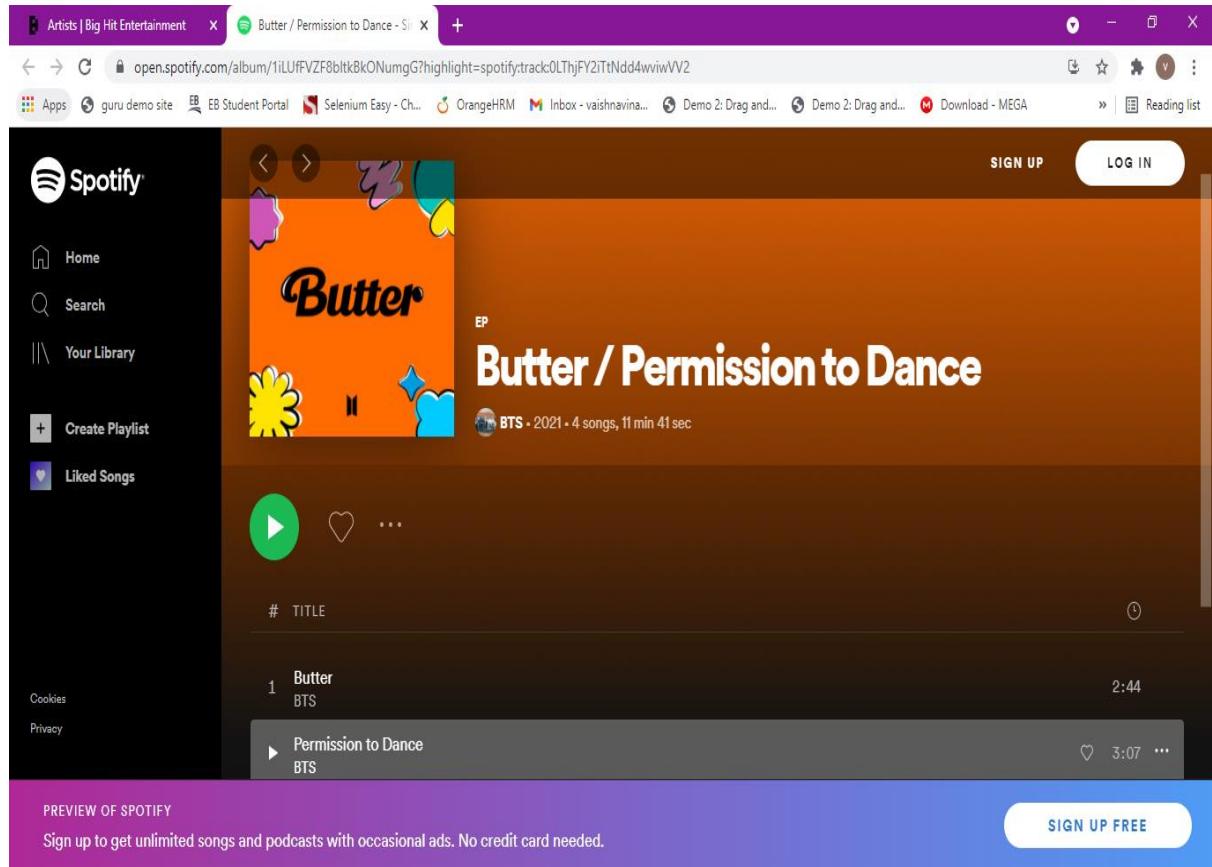
TC07: Open Apple Music page



Code:

```
w1.findElement(By.className("contents-obj")).click();  
  
Thread.sleep(2000);  
  
w1.findElement(By.xpath("//body/div[1]/div[1]/main[1]/section[1]/ul[1]/li[1]/div[1]/div[1]/div[1]/div[1]/ul[1]/li[5]/a[1]")).click();  
  
Thread.sleep(2000);
```

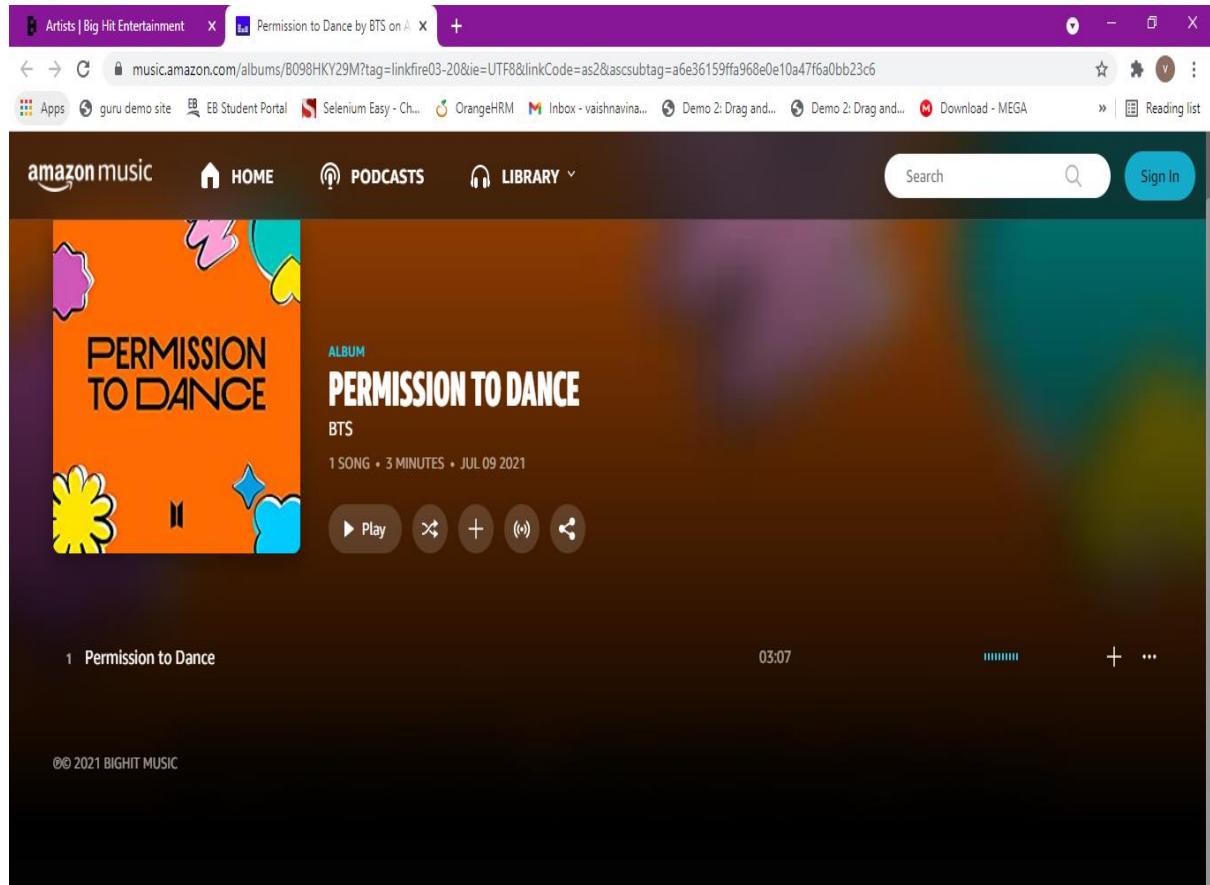
TC08: Open Spotify page



Code:

```
w1.findElement(By.className("contents-obj")).click();  
Thread.sleep(2000);  
  
w1.findElement(By.xpath("//body/div[1]/div[1]/main[1]/section[1]/ul[1]/li[1]/div[1]/div[1]/div[1]/div[1]/ul[1]/li[6]/a[1]")).click();  
Thread.sleep(2000);
```

TC09: Open Amazon Music page



Code:

```
w1.findElement(By.className("contents-obj")).click();

Thread.sleep(2000);

w1.findElement(By.xpath("//body/div[1]/div[1]/main[1]/section[1]/ul[1]/li[1]/div[1]/div[1]/div[1]/div[1]/ul[1]/li[7]/a[1]")).click();

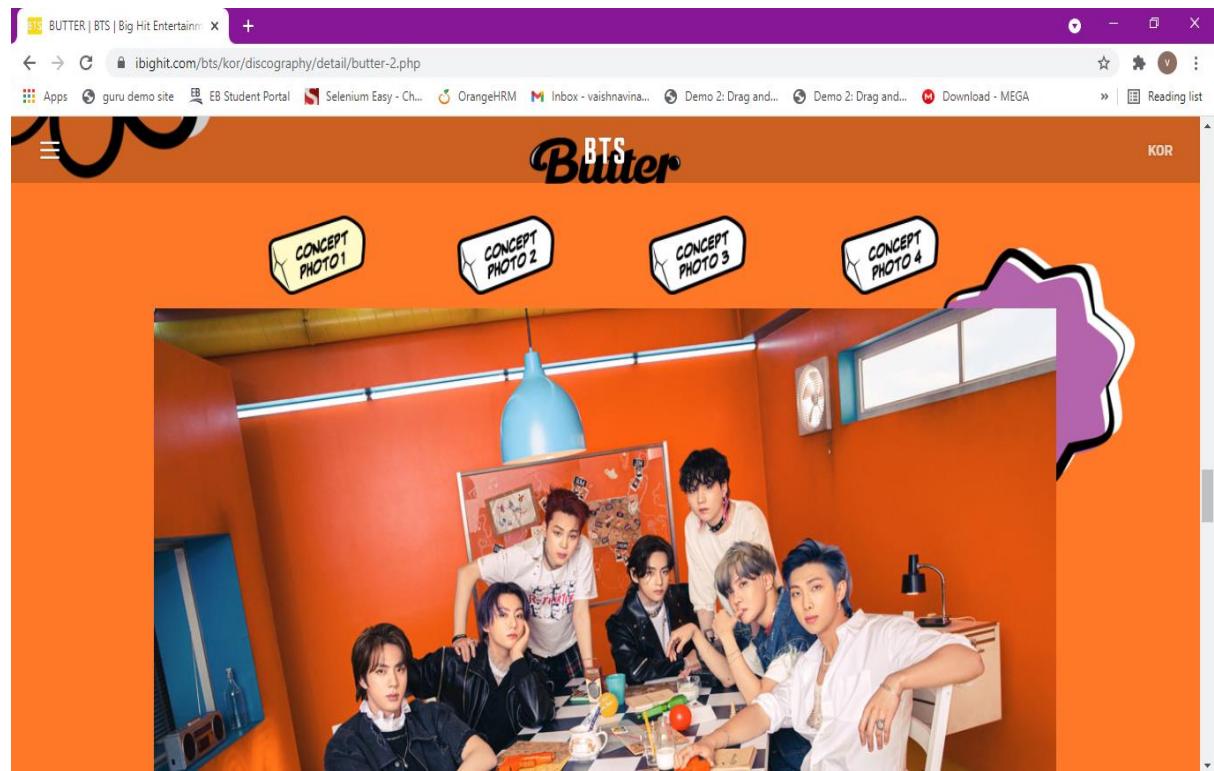
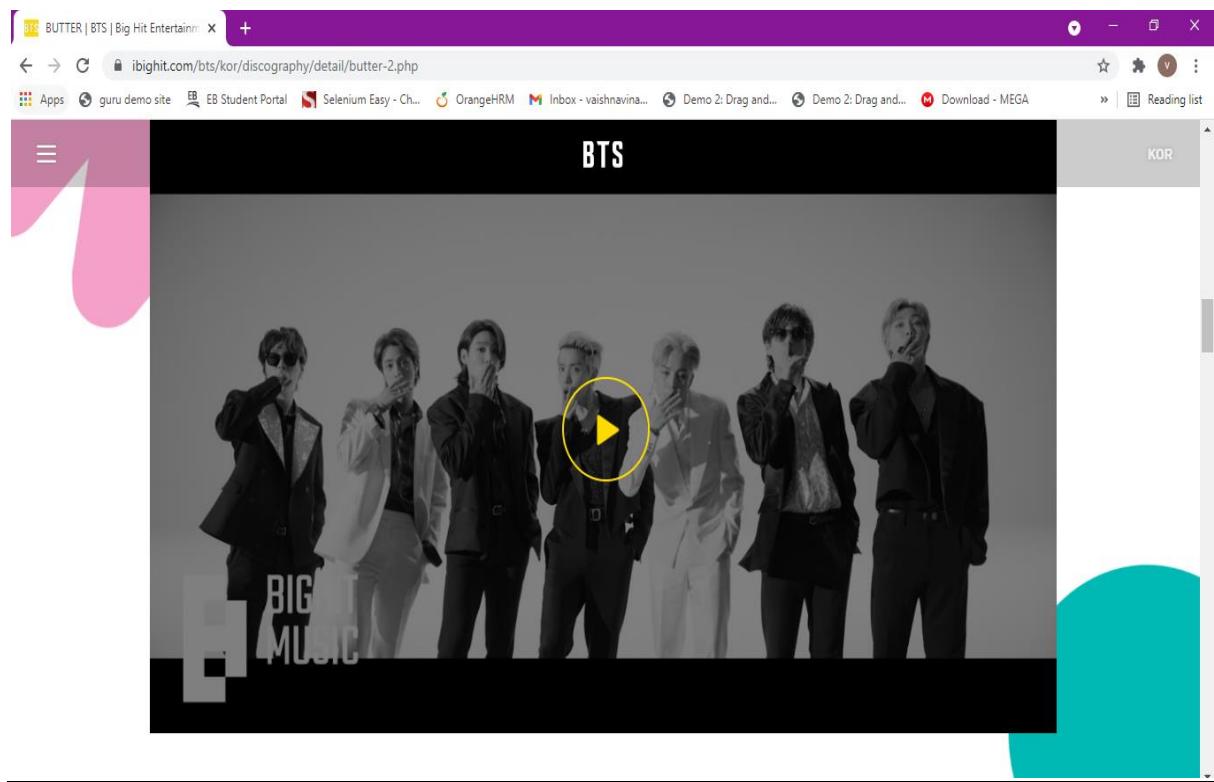
Thread.sleep(2000);

System.out.println("Executed sucessfully");

w1.switchTo().window("https://ibighit.com/");

Thread.sleep(2000);
```

TC10: Open Album Info page

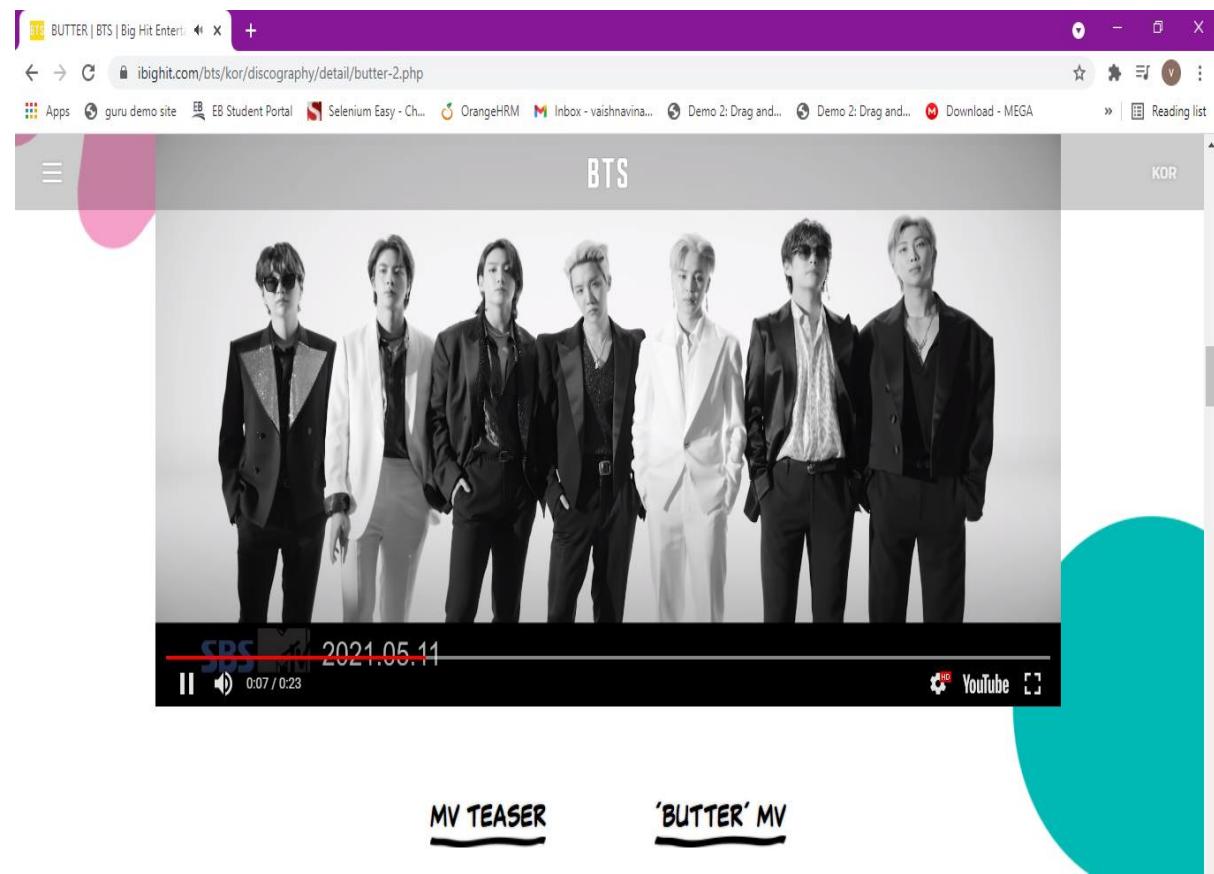


Code:

```
w1.findElement(By.className("contents-obj")).click();

Thread.sleep(2000);

w1.findElement(By.xpath("//body/div[1]/div[1]/main[1]/section[1]/ul[1]/li[1]/div[1]/div[1]/div[1]/a[1]")).click();
T
Thread.sleep(3000);
```

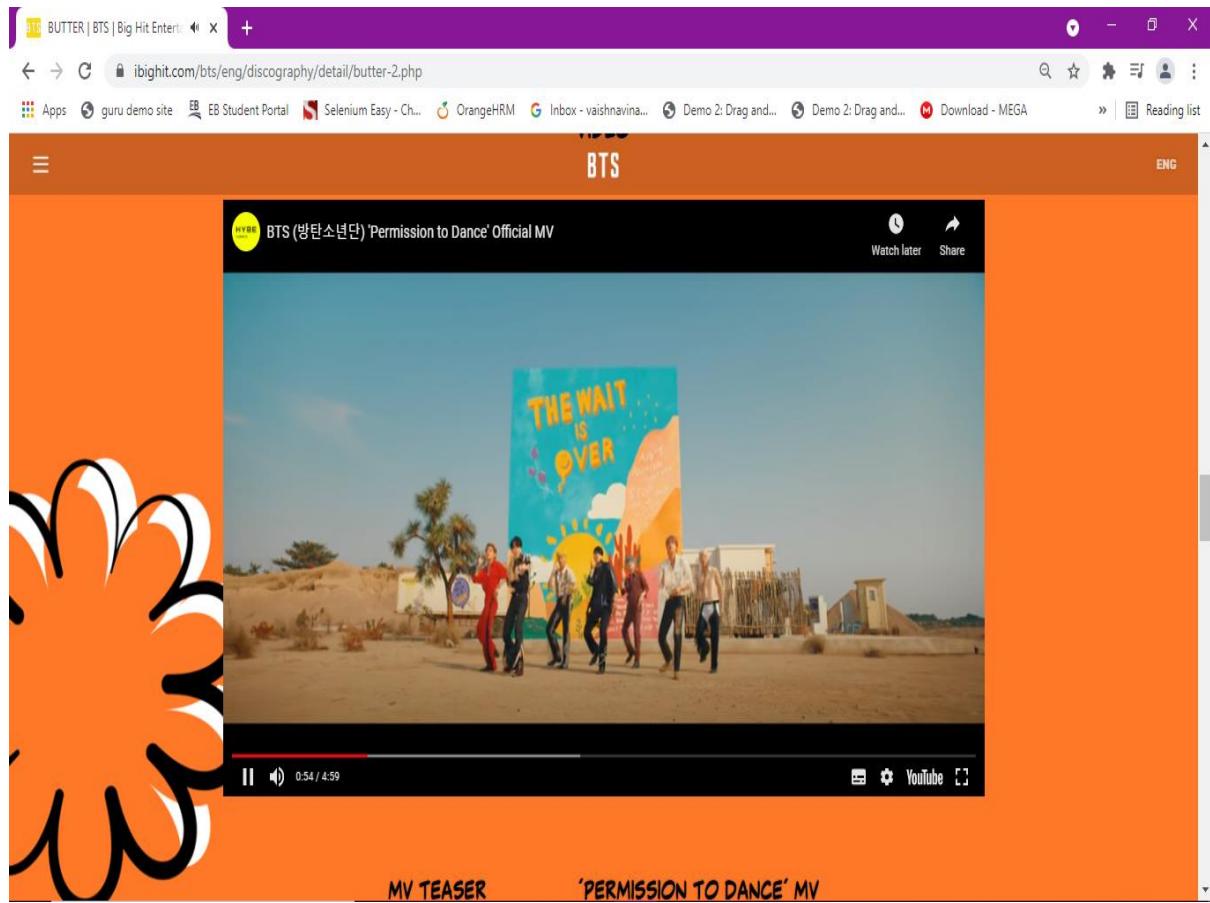
TC11: To check functionality of video play button**Code:**

```
w1.findElement(By.xpath("/html/body/div/main/section[2]/div/ul/li[1]/div/button"))
.click();

Thread.sleep(10000);

w1.navigate().back();
```

TC12: To check functionality of video play button2 (permission to dance)



Code:

```
//album sub part

w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[1]/button/div/div[1]/img")).click();
Thread.sleep(2000);

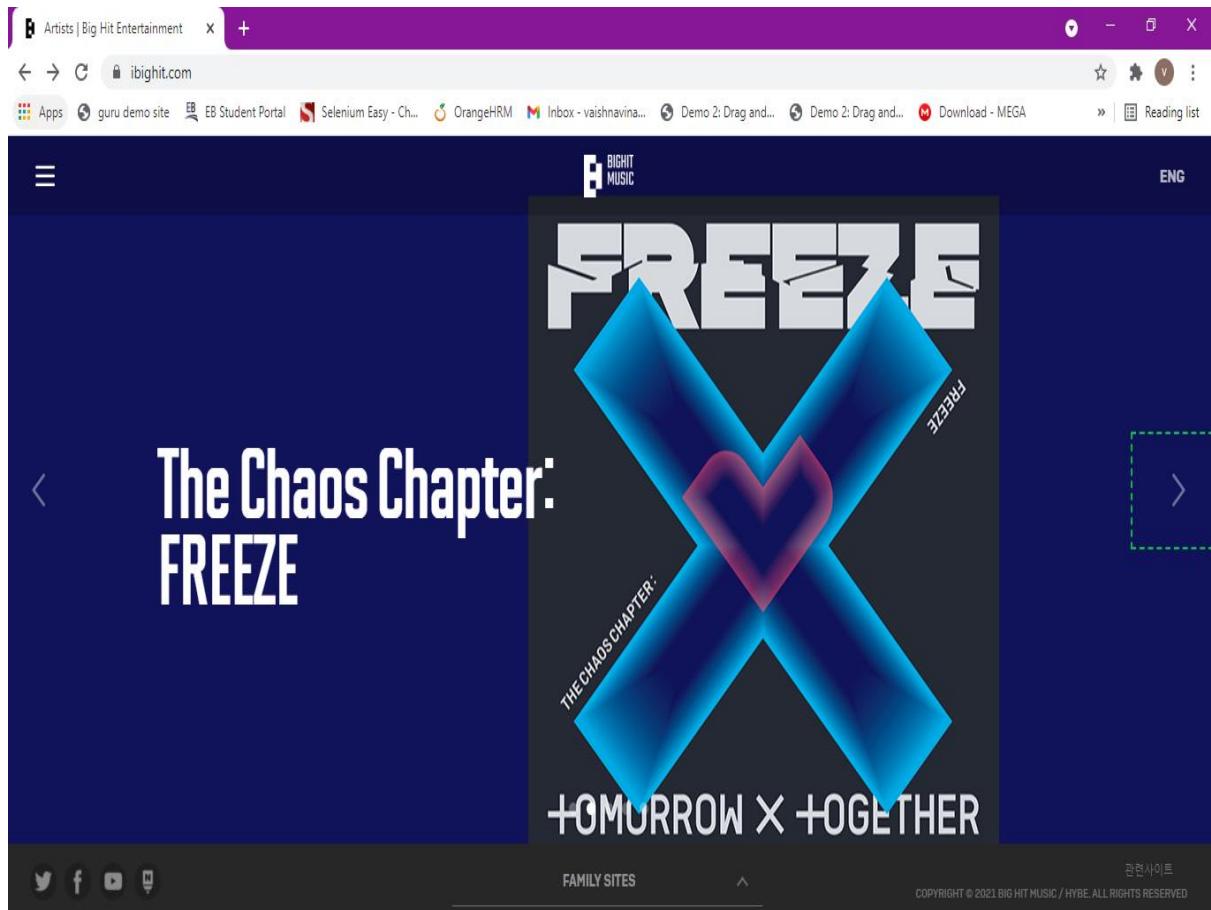
//album info
w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[1]/div/div/a")).click();
Thread.sleep(3000);

//video playing2

w1.findElement(By.xpath("//*[@id='albumVideo2']/div/ul/li[2]/div/button")).click();
Thread.sleep(80000);

w1.navigate().back();
```

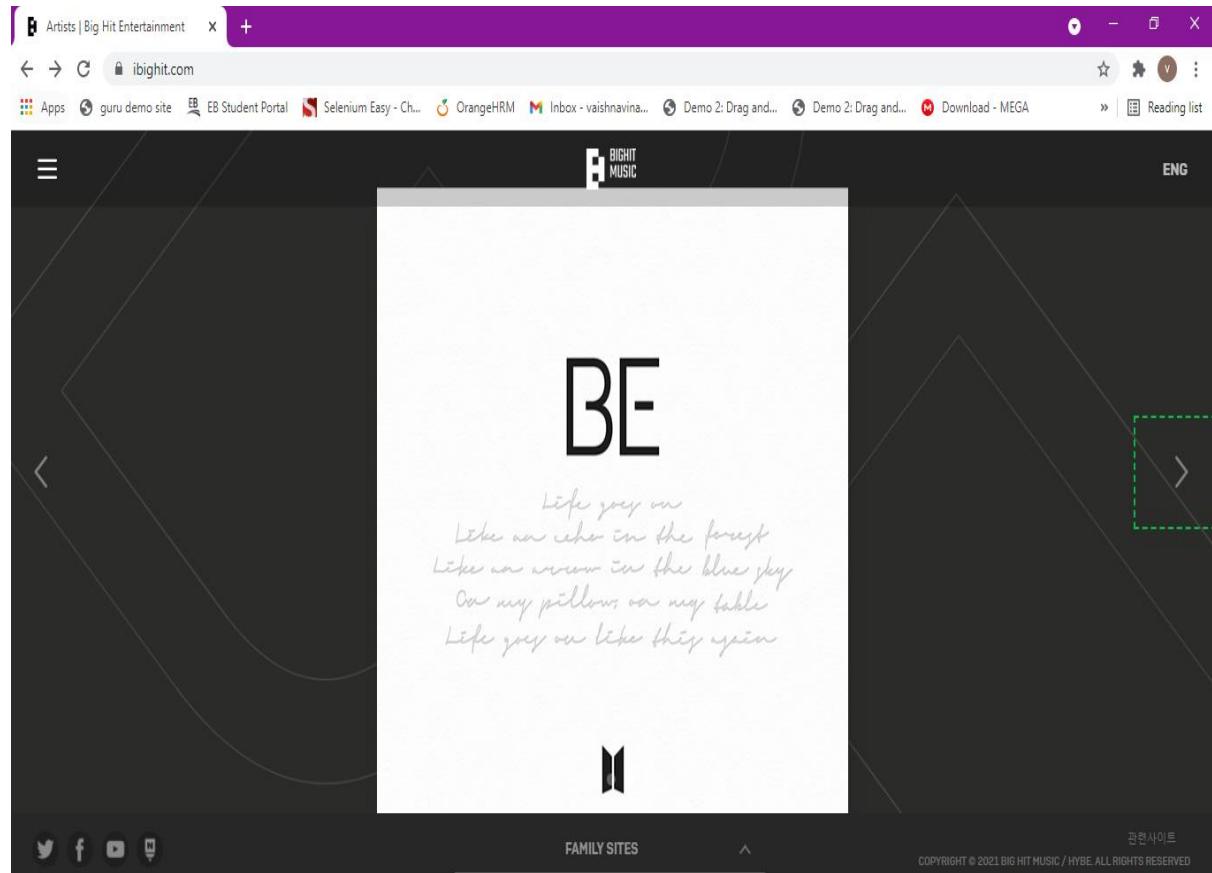
TC13: To check the functionality of right arrow button (slider)



Code:

```
w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();  
Thread.sleep(1000);
```

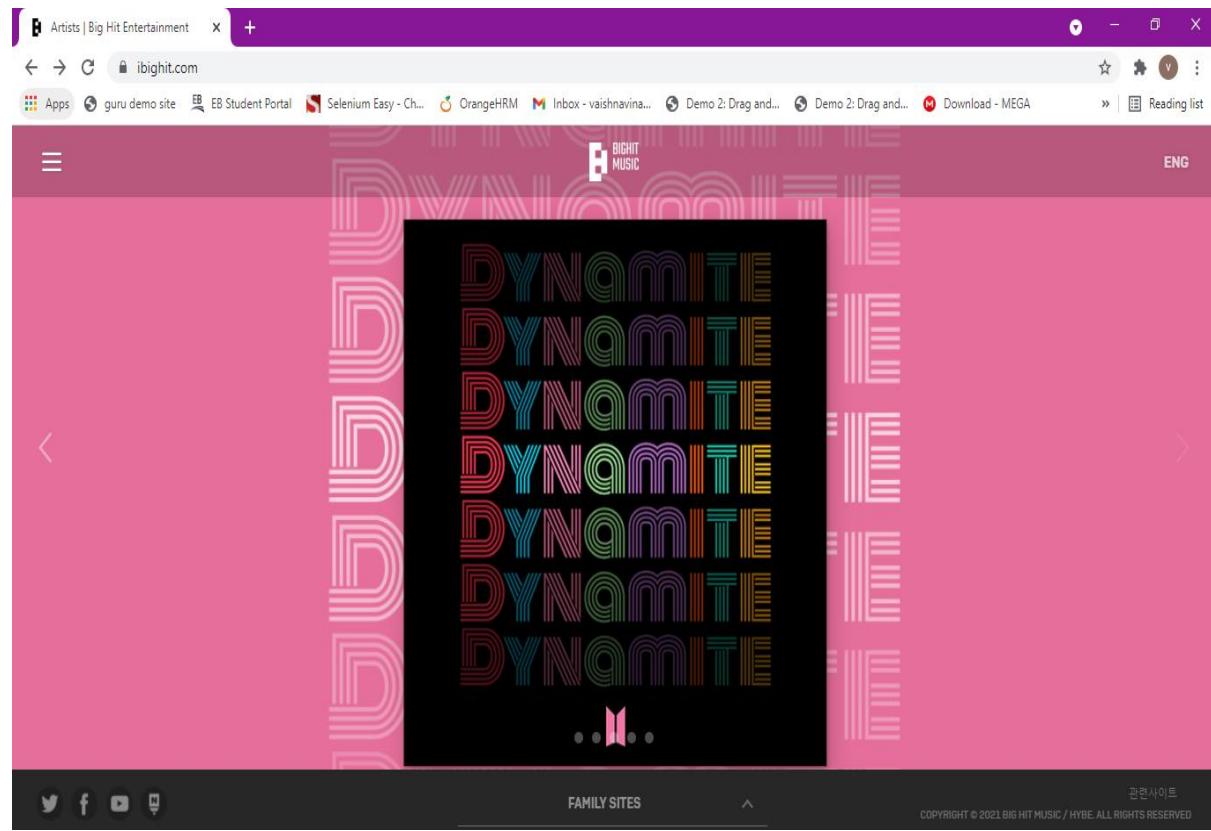
TC14: To check the functionality of left arrow button (slider)



Code:

```
w1.findElement(By.xpath("//body/div[1]/div[1]/main[1]/section[1]/div[1]/button[1]/span[1]")).click();  
Thread.sleep(1000);
```

TC15: To check the functionality of Dynamite page click function



Code:

```
w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();
Thread.sleep(1000);

w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();

Thread.sleep(1000);

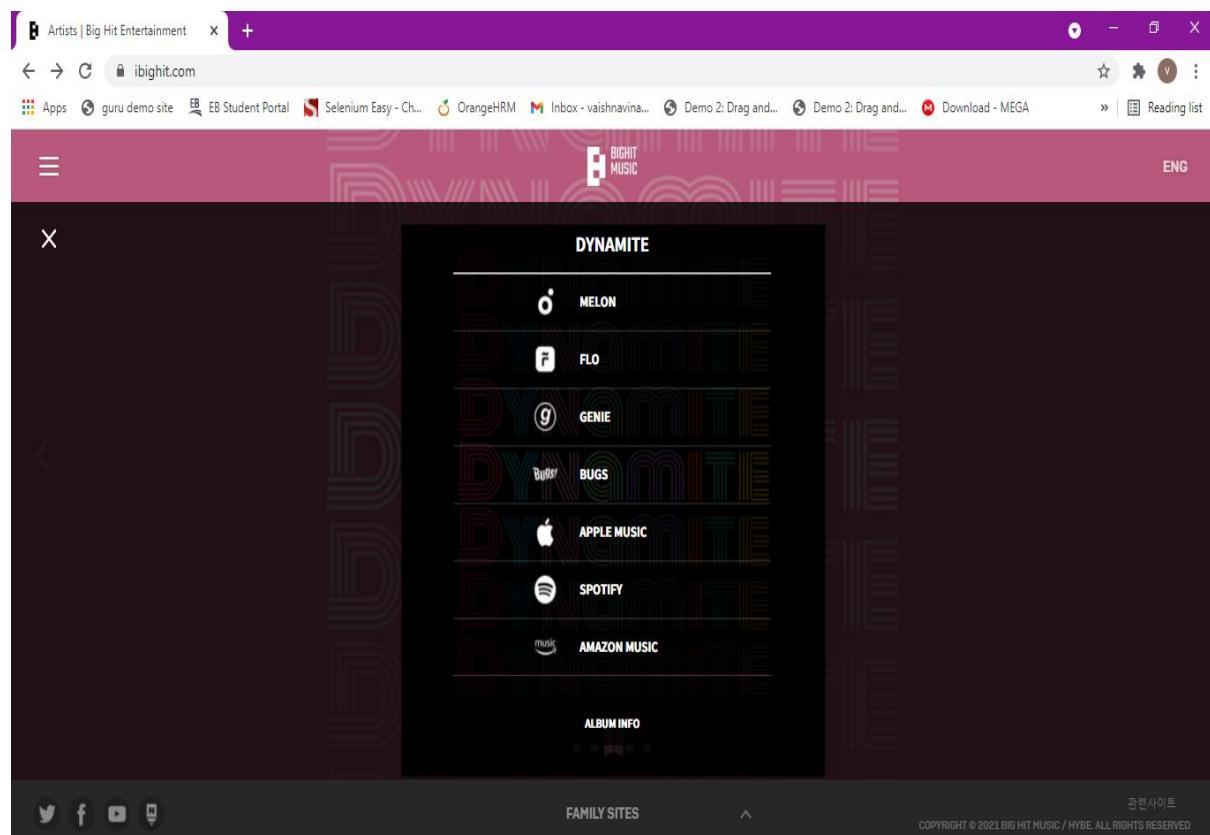
w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();

Thread.sleep(1000);

w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();
Thread.sleep(1000);

w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")); //dynamite pg
Thread.sleep(2000);
```

TC16: To check the functionality of Dynamite page's menu function



Code:

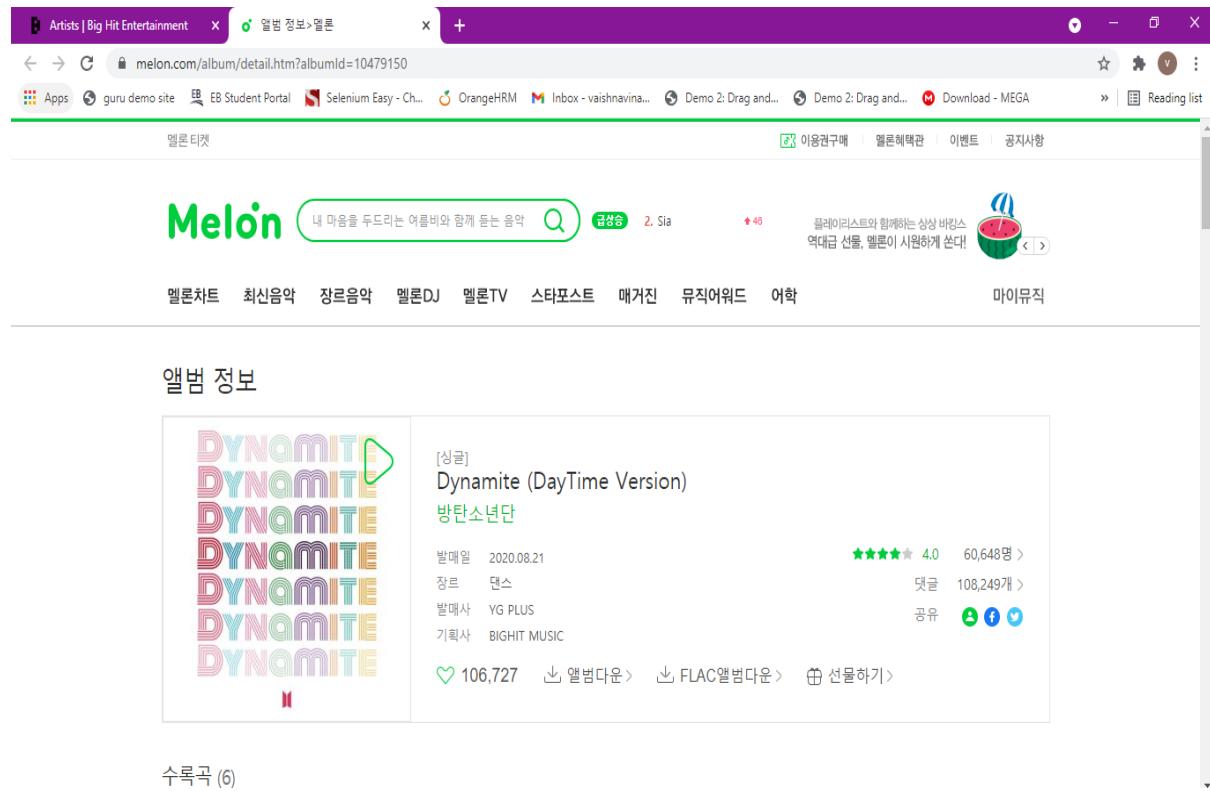
```
//dynamite pg
```

```
w1.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();
Thread.sleep(2000);
```

```
//dynamite menu
```

```
w1.findElement(By.xpath("/html/body/div/div/main/section/ul/li[6]/button/div/div[1]/img")).click();
Thread.sleep(2000);
```

TC17: To check the functionality of Dynamite page's menu function (melon page)



The screenshot shows a web browser window with the following details:

- Address Bar:** melon.com/album/detail.htm?albumId=10479150
- Page Title:** melon
- Header:** 네 마음을 두드리는 여름비와 함께 듣는 음악 (Search icon) 급상승 2. Sia
- Image:** A green circle highlights the album cover for 'Dynamite' by BTS.
- Text:** 플레이리스트와 함께하는 상상 바캉스 역대급 선물, 멜론이 사랑하게 쏜다! (Watermelon icon)
- Navigation:** 멜론차트, 최신음악, 장르음악, 멜론DJ, 멜론TV, 스타포스트, 매거진, 뮤직어워드, 어학
- Right Side:** 이용권구매, 멜론혜택관, 이벤트, 공지사항, 마이뮤직
- Section:** 앨범 정보
- Album Details:**
 - [상금] Dynamite (DayTime Version)
 - 방탄소년단
 - 발매일: 2020.08.21
 - 장르: 댄스
 - 발매사: YG PLUS
 - 기획사: BIGHIT MUSIC
 - ★★★★★ 4.0 60,648명 >
 - 댓글 108,249개 >
 - 공유 (icon)
 - 106,727 (heart icon) 앨범다운 > FLAC앨범다운 > 선물하기 >

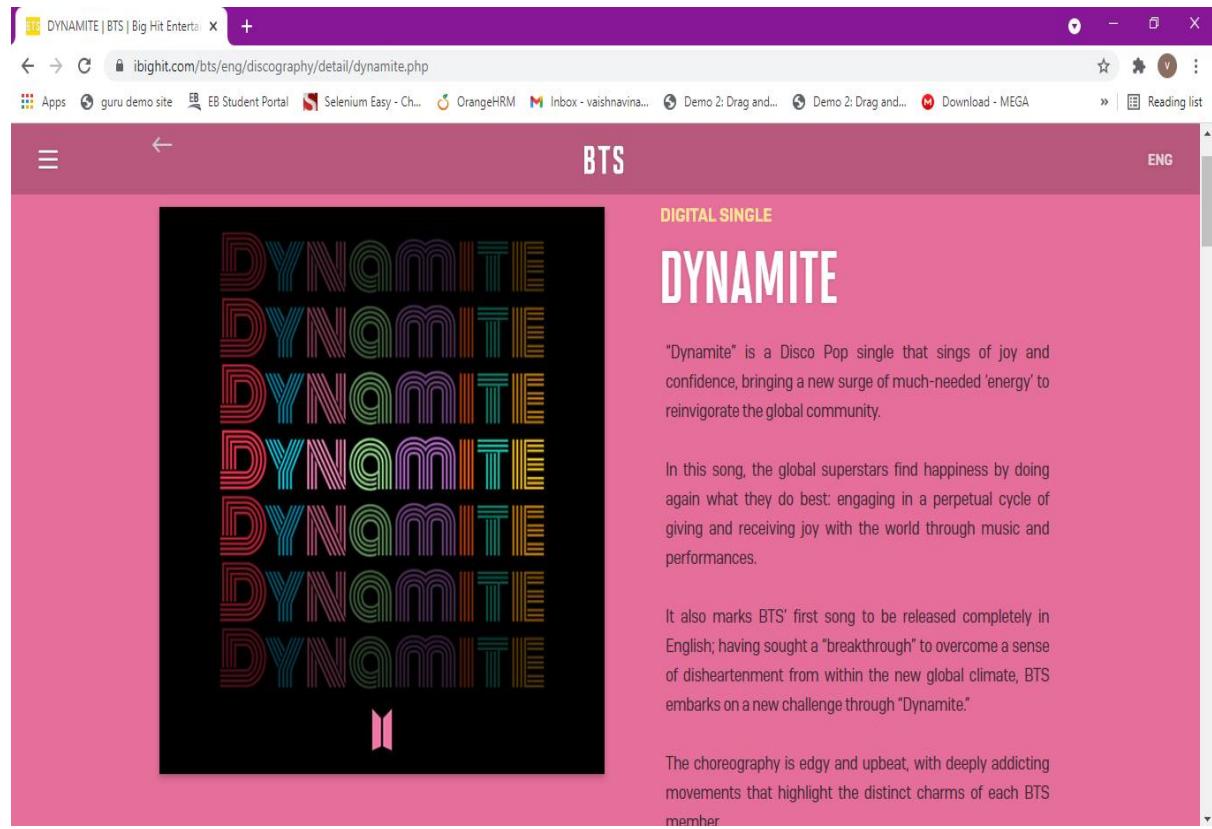
수록곡 (6)

Code:

```
//dynamite menu  
  
w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[6]/button/div/div[1]/img")).click();  
  
Thread.sleep(2000);
```

```
//melon page  
  
w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[6]/div/div/div/div/ul/li[1]/a")).click();  
  
Thread.sleep(2000);  
  
w1.switchTo().window("https://ibighit.com/");
```

TC18: To check the functionality of Dynamite page's menu function (album page)



Code:

```
//dynamite pg
    w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[6]/button/div/div[1]/img")).click();

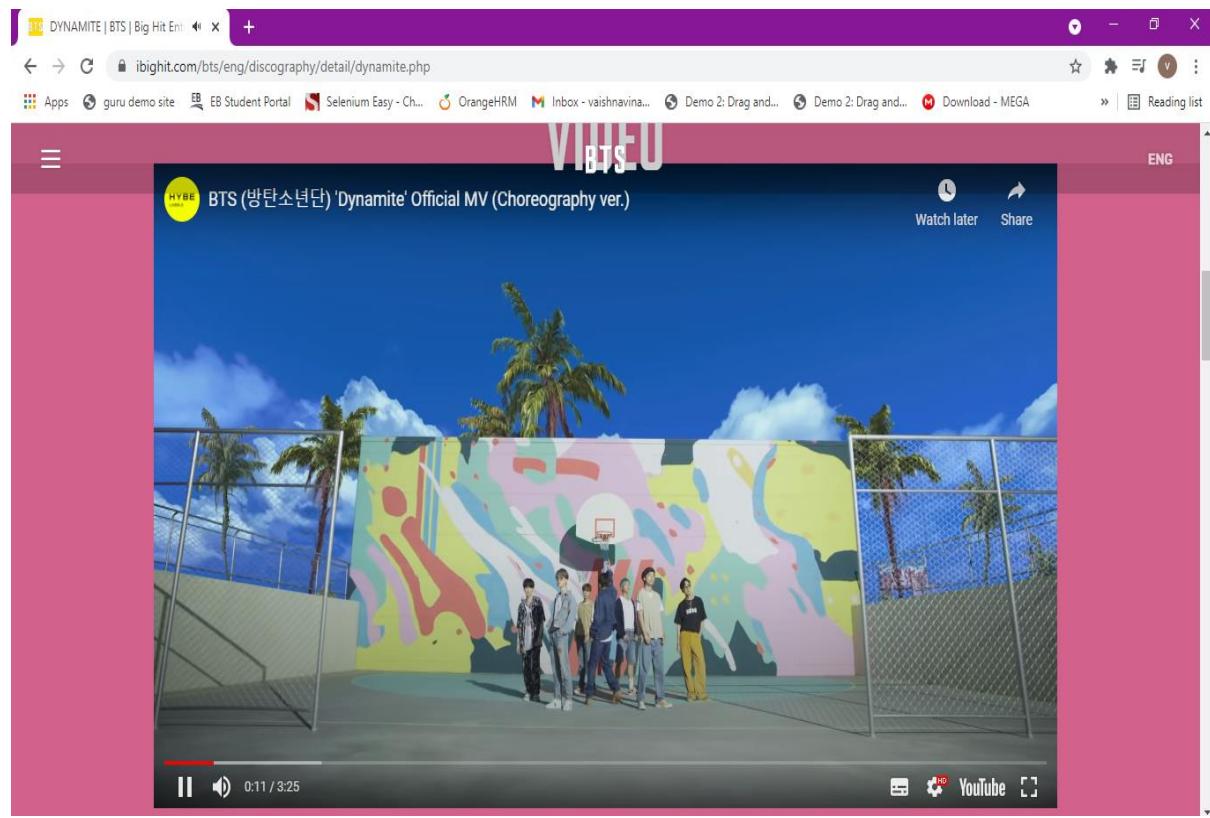
Thread.sleep(2000);

//album pg of dynamite

w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[6]/div/div/a"))
.click();

Thread.sleep(2000);
```

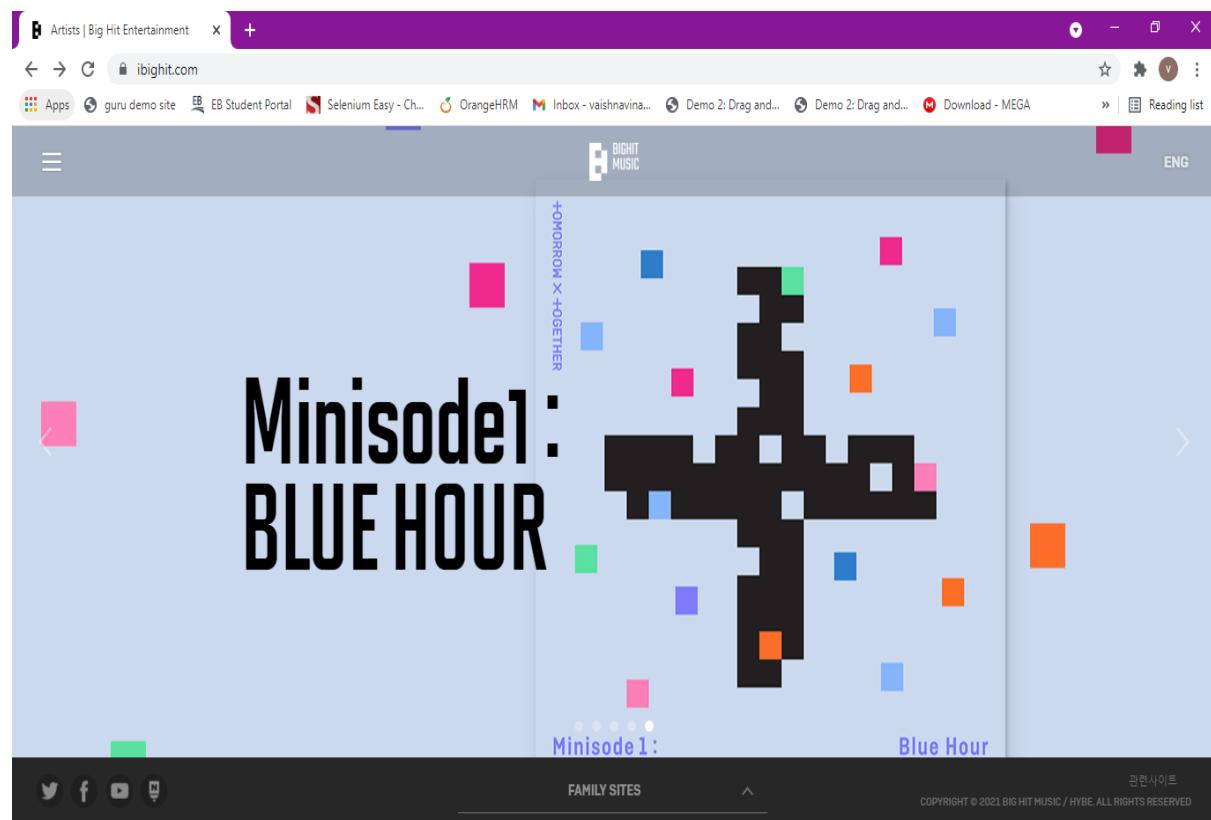
TC19: To check the functionality of album page's video play button



Code:

```
//album pg of dynamite  
  
w1.findElement(By.xpath("/html/body/div/div/main/section/ul/li[6]/div/div/a"))  
.click();  
  
Thread.sleep(2000);  
  
//to play dynamite video  
  
w1.findElement(By.xpath("/html/body/div/main/section[2]/div/ul/li[4]/div/button"))  
.click();
```

TC20: To check the functionality of Tomorrow X together page click function



Code:

```
w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();
Thread.sleep(1000);

w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();

Thread.sleep(1000);

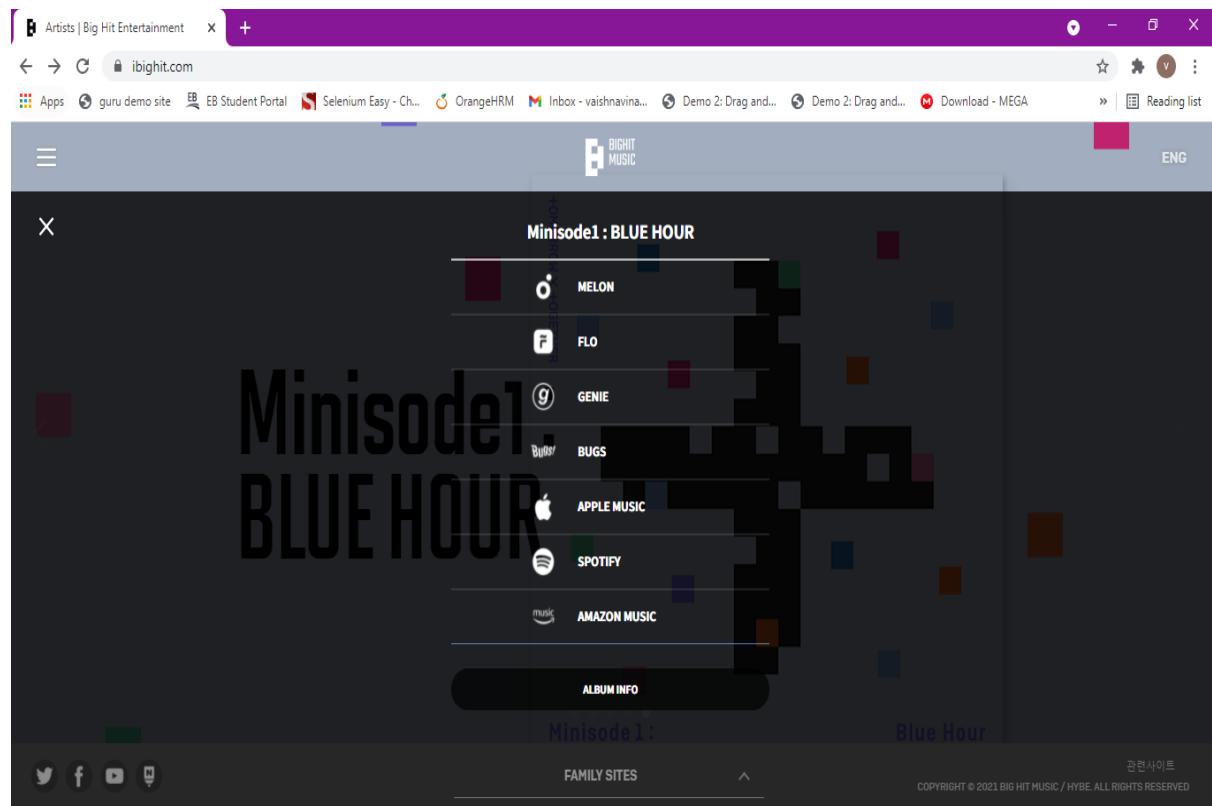
w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();

Thread.sleep(1000);

w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/main[1]/section[1]/div[1]/button[2]/span[1]")).click();
Thread.sleep(1000);
//Tomorrow x together pg

w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[5]/button/div/div[2]")).click();
Thread.sleep(2000);
```

TC21: To check the functionality of Tomorrow X together page's menu function



Code:

```
//Tomorrow x together pg  
  
w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[5]/button/div/div[2]")).click();  
  
Thread.sleep(2000);
```

TC22: To check the functionality of Tomorrow X together page's menu function(melon page)

The screenshot shows a browser window with the URL melon.com/album/detail.htm?albumId=10508871. The page is titled 'Melon' and displays information about the album 'minisode1 : Blue Hour' by '투모로우바이투게더'. The album cover features a black and white pixelated design with colorful squares. The page includes details like release date (2020.10.26), genre (댄스, 록/메탈, R&B/Soul), and distribution (YG PLUS). It also shows a rating of 4.5 stars from 10,480 reviews and 20,944 likes. Navigation links at the bottom include '수록곡 (5)'.

Code:

```
//tomorrow x together pg

w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[5]/button/div/div[2]")).click();

Thread.sleep(2000);
```

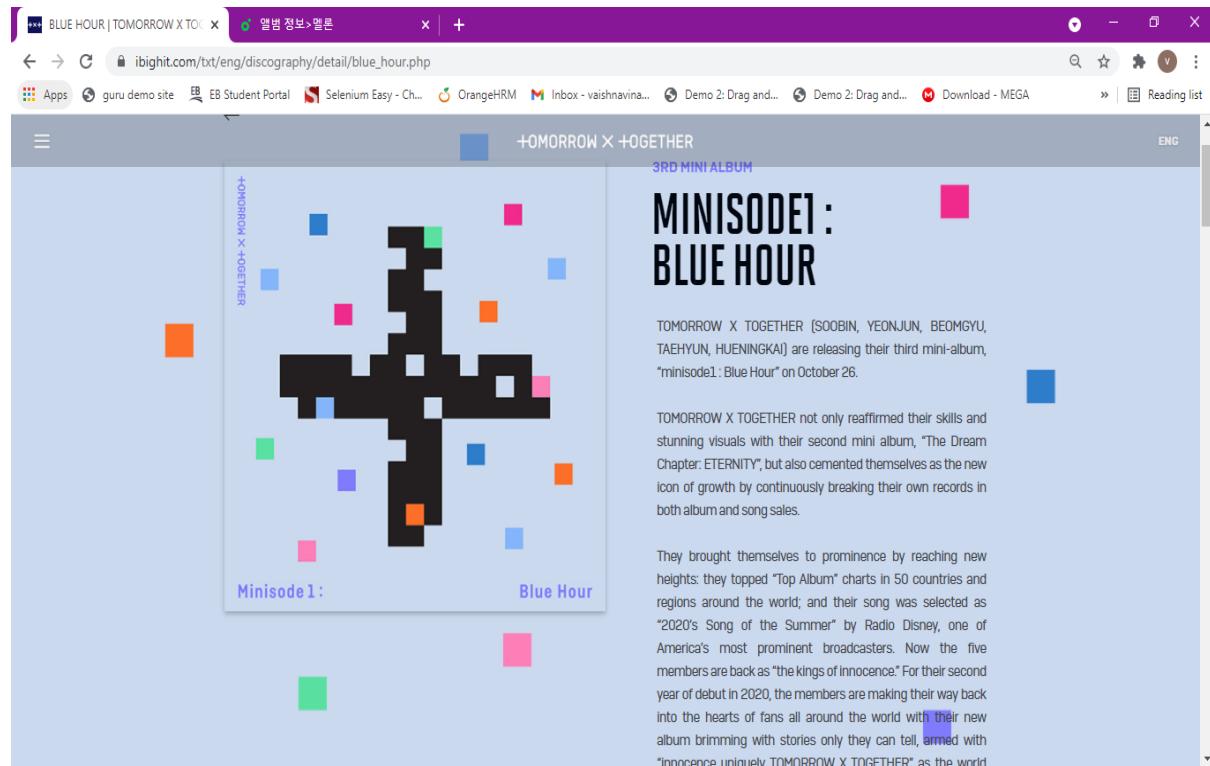
```
//melon pg

w1.findElement(By.xpath("//html/body/div/div/main/section/ul/li[5]/div/div/div/div/ul/li[1]/a")).click();

Thread.sleep(4000);

w1.switchTo().window("https://ibighit.com/");
```

TC23: To check the functionality of Tomorrow X together page's menu function (album page)

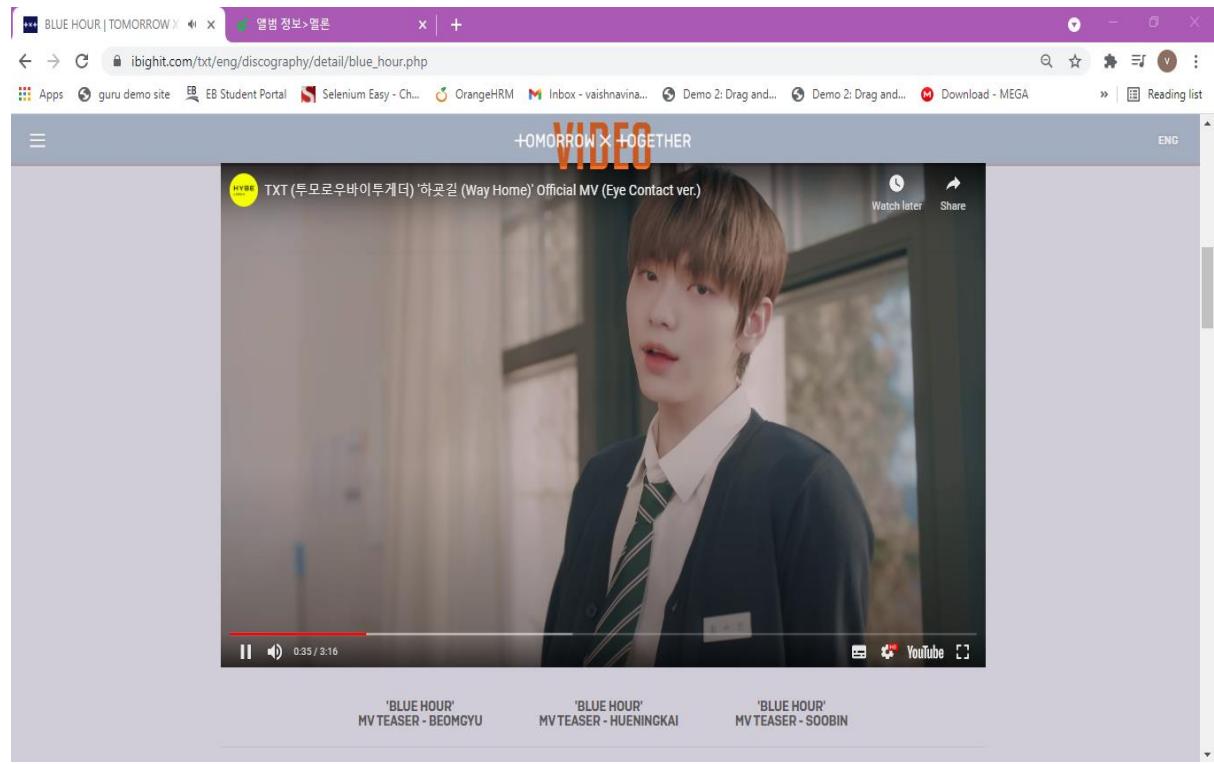


Code:

```
//tomorrow x together pg  
  
w1.findElement(By.xpath("/html/body/div/div/main/section/ul/li[5]/button/div/div[2]")).click();  
  
Thread.sleep(3000);
```

```
//album pg  
  
w1.findElement(By.xpath("/html/body/div/div/main/section/ul/li[5]/div/div/div/a")).  
click();
```

TC24: To check the functionality of Tomorrow X together page's album page video play button



Code:

```
//tomorrow x together pg  
  
w1.findElement(By.xpath("/html/body/div/div/main/section/ul/li[5]/button/div/div[2]")).click();  
  
Thread.sleep(3000);  
  
//album pg  
  
w1.findElement(By.xpath("/html/body/div/div/main/section/ul/li[5]/div/div/a")).click();  
  
//video play button  
  
w1.findElement(By.xpath("/html/body/div[2]/main/section[2]/div/ul/li[18]/button")).click();
```

TC25: To check the functionality of language options



Code:

```
w1.get("https://www.google.com");
//enter URL

w1.navigate().to("https://ibighit.com/");

Actions A = new Actions(w1);

A.moveToElement(w1.findElement(By.xpath("//header/div[2]/button[1]"))).perform();

//only one language works at a time

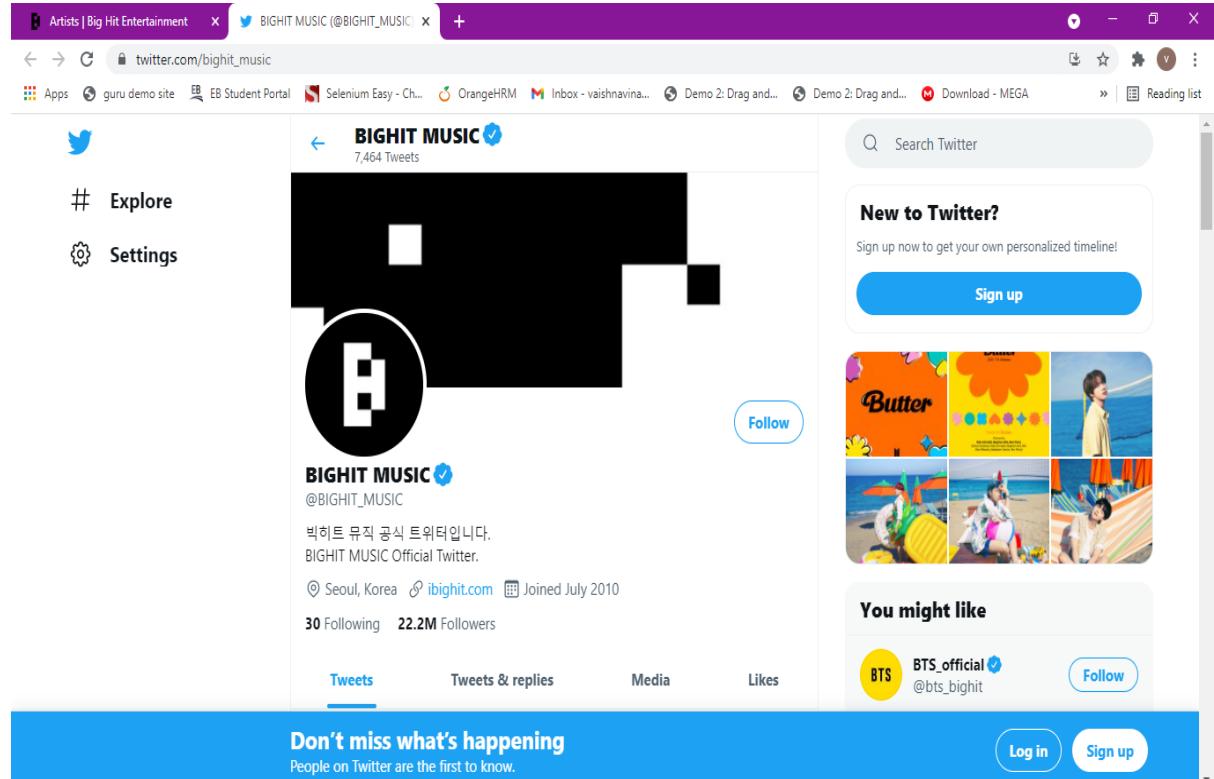
w1.findElement(By.xpath("//button[contains(text(),'JPN')]")).click();
Thread.sleep(2000);
w1.navigate().back(); //-> english

//w1.findElement(By.xpath("//button[contains(text(),'ENG')]")).click();

//w1.findElement(By.xpath("//button[contains(text(),'KOR')]")).click();

//w1.findElement(By.xpath("//button[contains(text(),'CHN')]")).click();
```

TC26: To check the click functionality of Twitter link at page's bottom => Twitter page should open



Code:

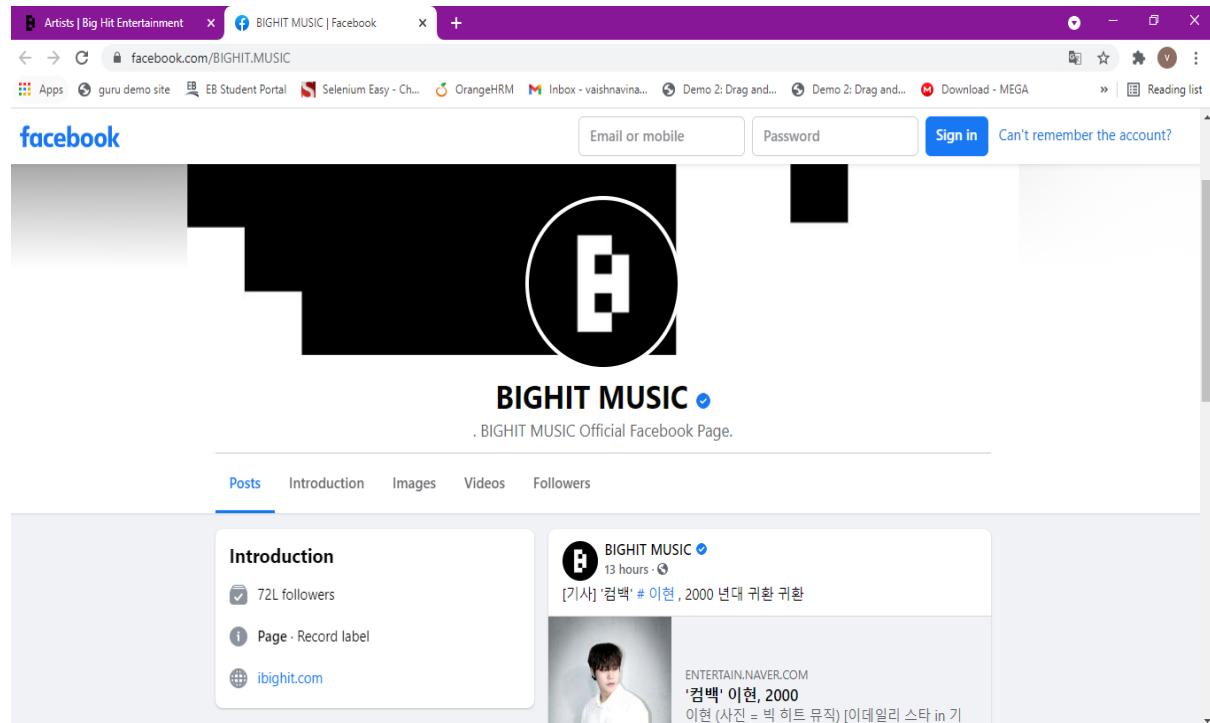
```
w1.navigate().to("https://ibighit.com/");
```

```
Thread.sleep(2000);
```

```
// twitter

w1.findElement(By.xpath("/html/body/div/div/footer/div/div[1]/ul/li[1]/a")).click();
Thread.sleep(2000);
```

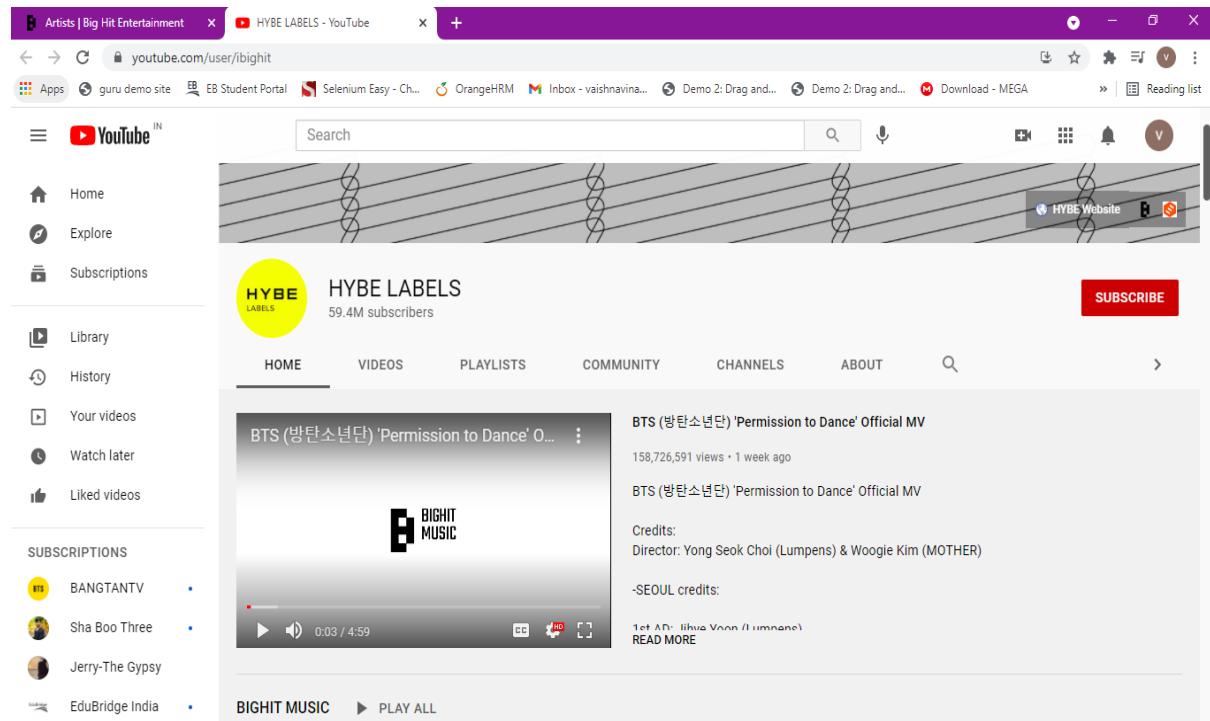
TC27: To check the click functionality of facebook link at page's bottom => Facebook page should open



Code:

```
//facebook  
  
w1.findElement(By.xpath("/html/body/div/div/footer/div/div[1]/ul/li[2]/a")).click();  
Thread.sleep(2000);
```

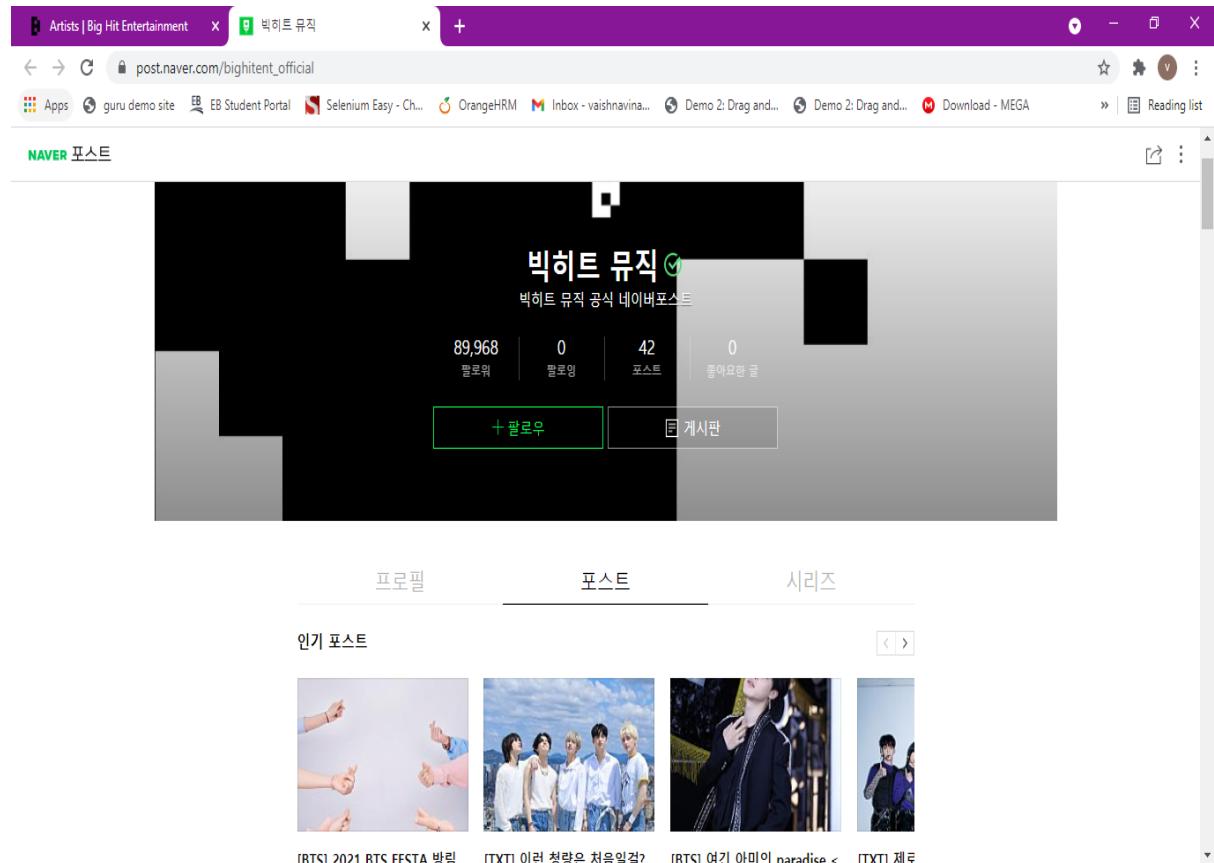
TC28: To check the click functionality of Youtube link at page's bottom => Youtube page should open



Code:

```
w1.findElement(By.className("youtube")).click();  
Thread.sleep(2000);
```

TC29: To check the click functionality of Naver page's link at page's bottom => Naver page should open



Code:

```
//naver post

w1.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/footer[1]/div[1]/div[1]/ul[1]/li[4]/a[1]")).click();

Thread.sleep(2000);

w1.switchTo().window("https://ibighit.com/");
```

TC30: To check the click functionality of Mouse hover option



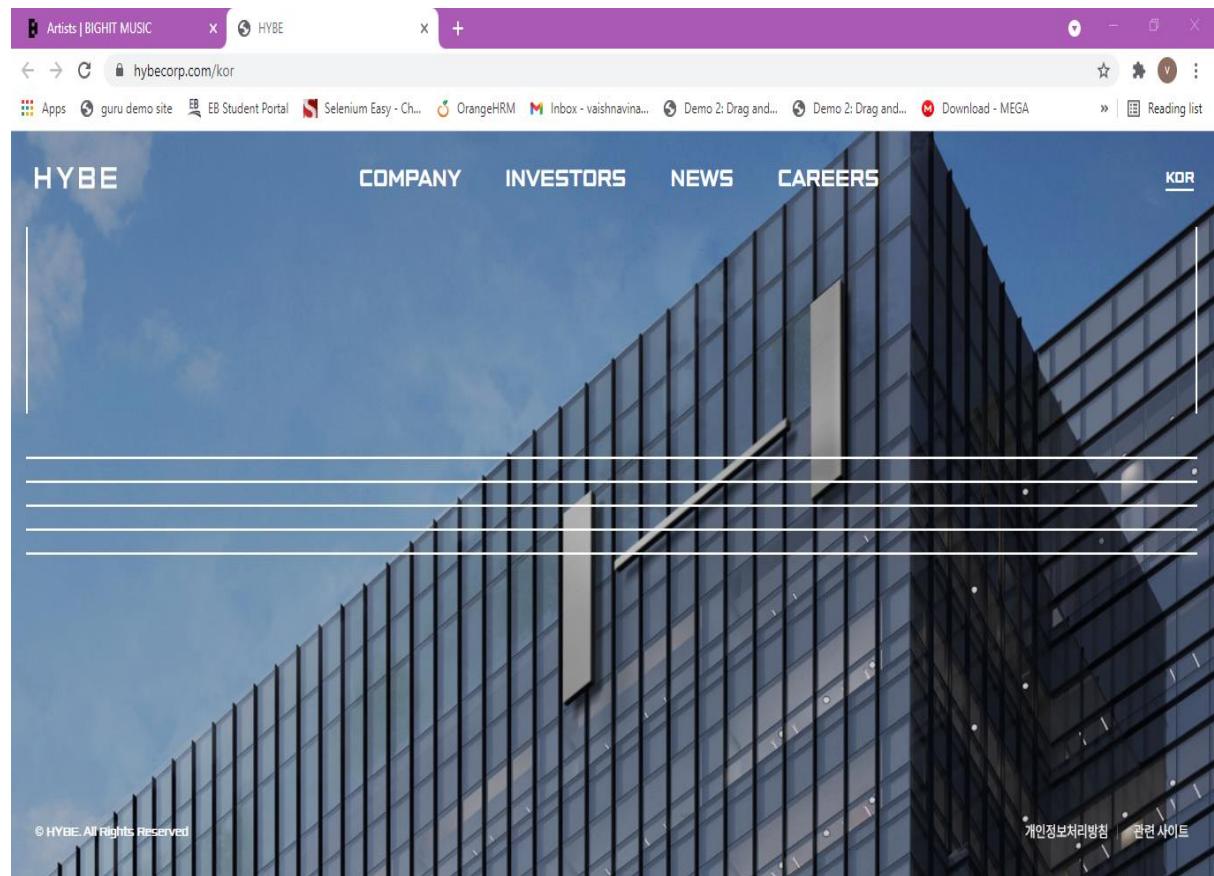
Code:

```
w1.navigate().to("https://ibighit.com/");

Actions A = new Actions(w1);

A.moveToElement(w1.findElement(By.xpath("//button[contains(text(), 'FAMILY
SITES')]"))).perform();
```

TC31: To check the click functionality of Mouse hovering
Hybe page => Hybe page should open



Code:

```
Actions A = new Actions(w1);
```

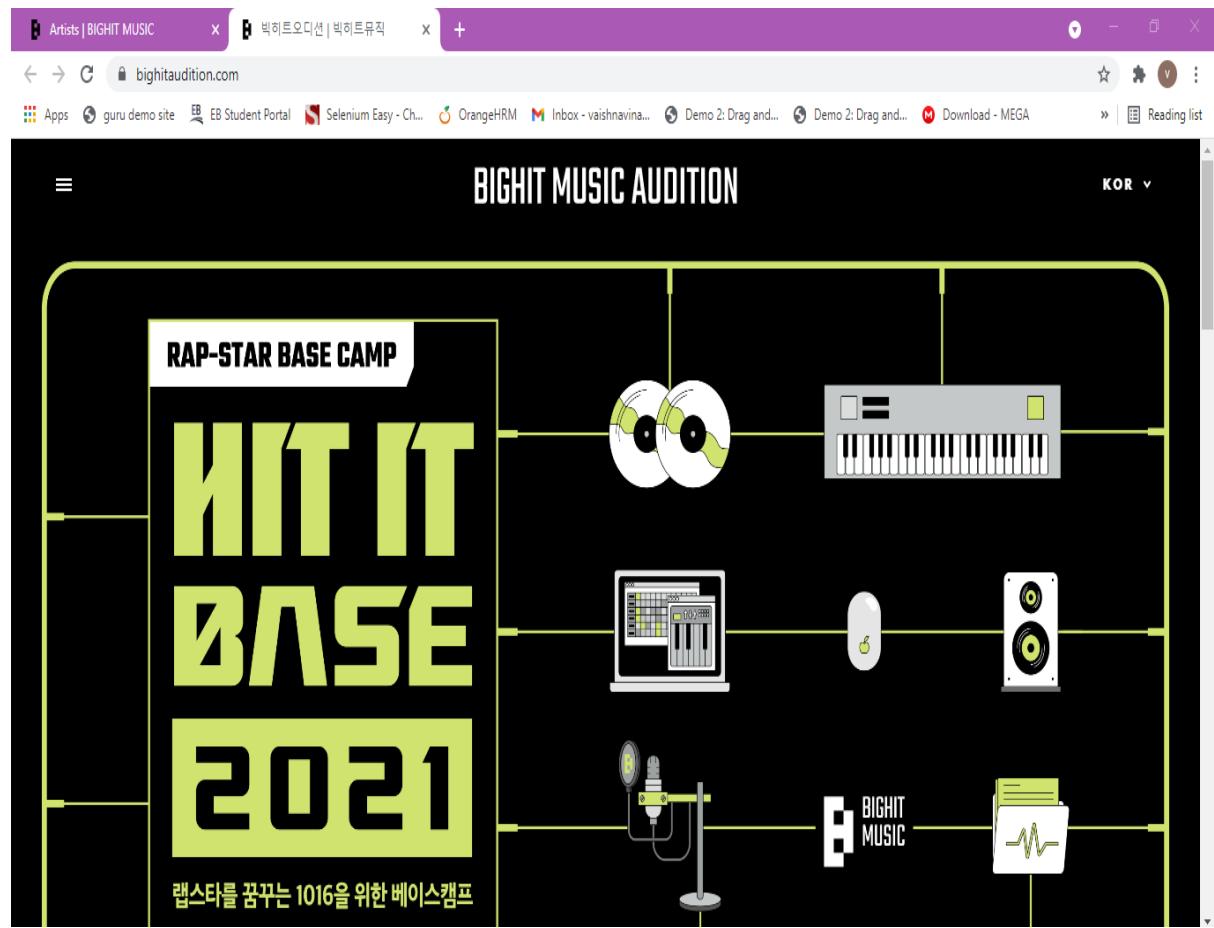
```
//Hybe page

A.moveToElement(w1.findElement(By.xpath("//button[contains(text(), 'FAMILY
SITES')]"))).perform();

w1.findElement(By.xpath("//body/div[1]/div[1]/footer[1]/div[1]/div[2]/div[1]/ul[1]
/li[1]/a[1]")).click();

Thread.sleep(2000);
```

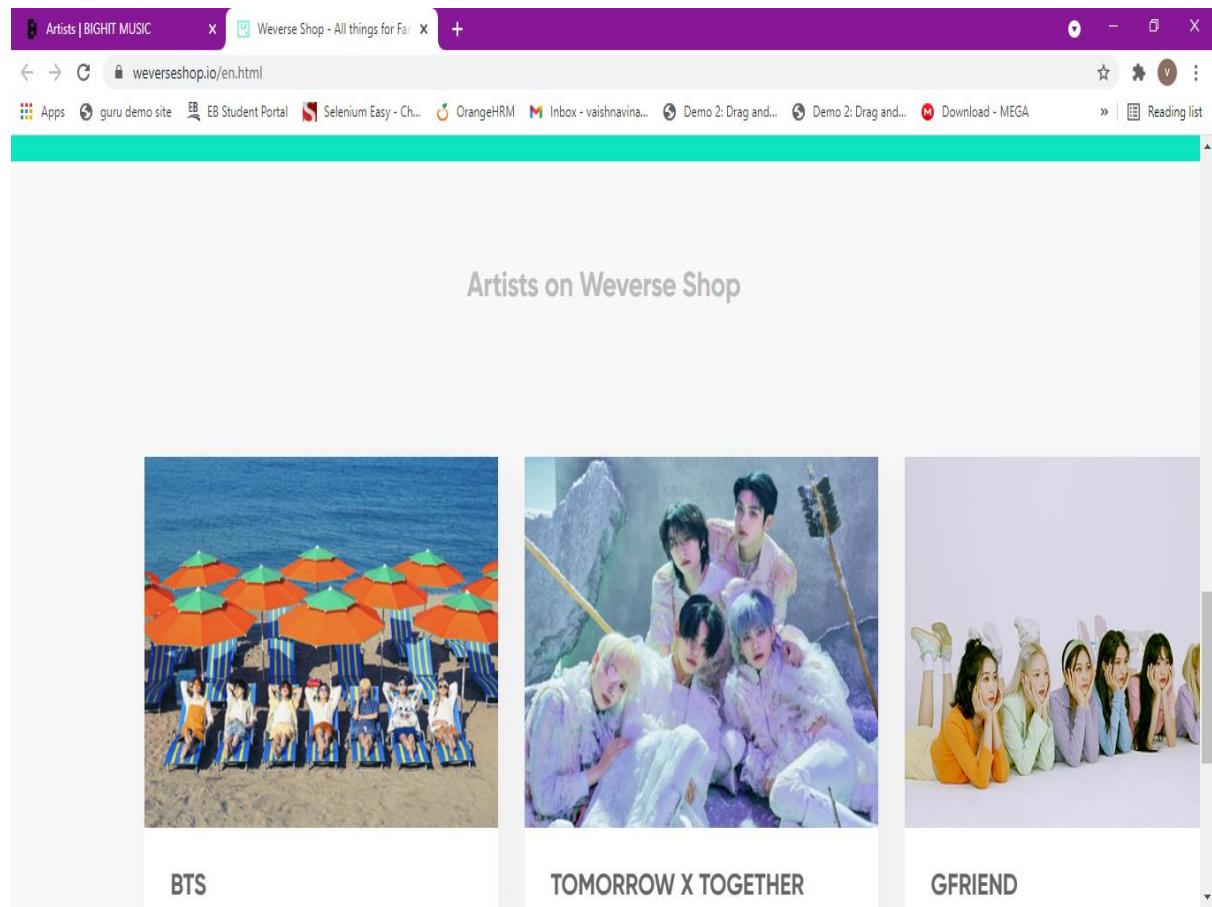
TC32: To check the click functionality of Mouse hovering
Bighit audition page => Bighit audition page should open



Code:

```
//big hit audition  
  
w1.navigate().to("https://ibighit.com/");  
  
A.moveToElement(w1.findElement(By.xpath("//button[contains(text(),'FAMILY  
SITES')]"))).perform();  
  
w1.findElement(By.xpath("//html[1]/body[1]/div[1]/div[1]/footer[1]/div[1]/div[2]/di  
v[1]/ul[1]/li[2]/a[1]")).click();  
  
Thread.sleep(2000);
```

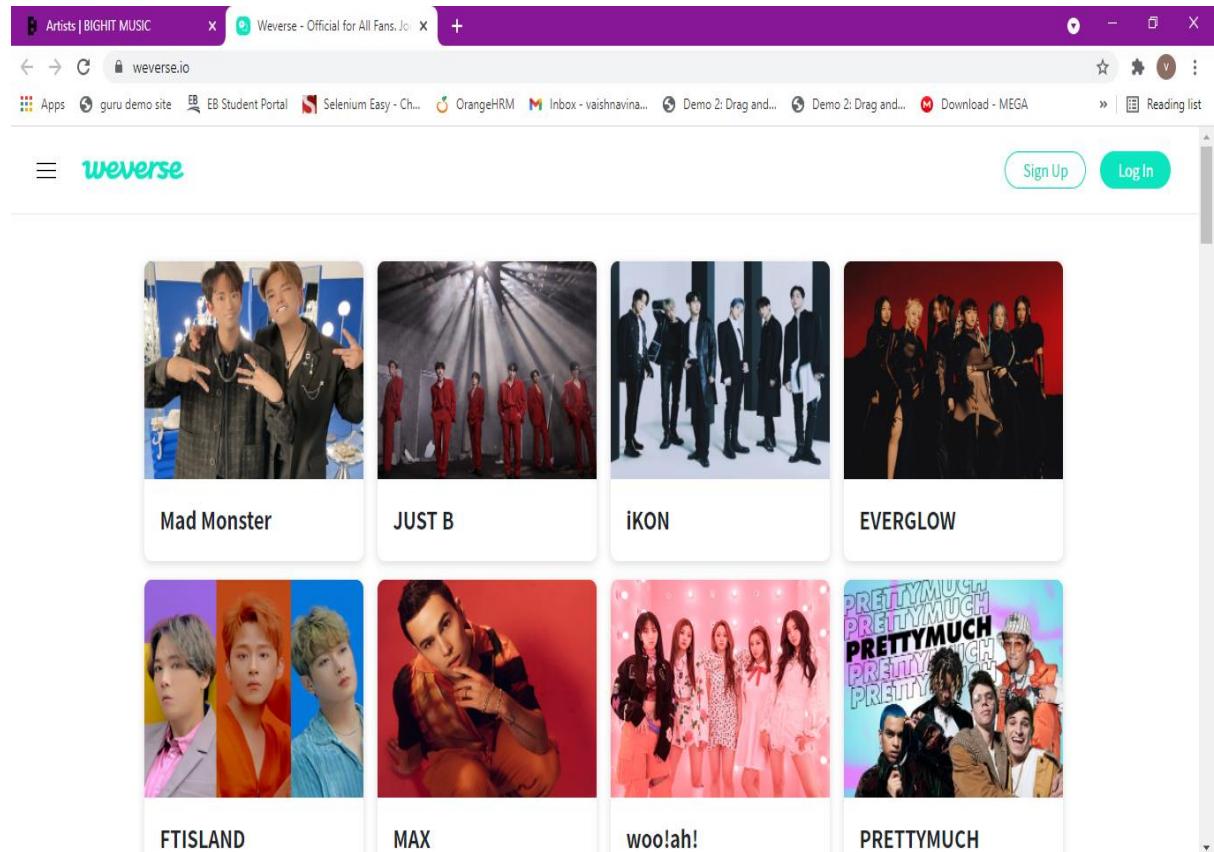
TC33: To check the click functionality of Mouse hovering Weverse shop page => Weverse shop page should open



Code:

```
//weverse shop  
  
w1.navigate().to("https://ibighit.com/");  
  
A.moveToElement(w1.findElement(By.xpath("//button[contains(text(),'FAMILY  
SITES')]"))).perform();  
  
w1.findElement(By.xpath("//a[contains(text(),'WEVERSE SHOP')]")).click();  
  
Thread.sleep(2000);
```

TC34: To check the click functionality of Mouse hovering Weverse page => Weverse page should open



Code:

```
//weverse

w1.navigate().to("https://ibighit.com/");

A.moveToElement(w1.findElement(By.xpath("//button[contains(text(),'FAMILY SITES')]"))).perform();

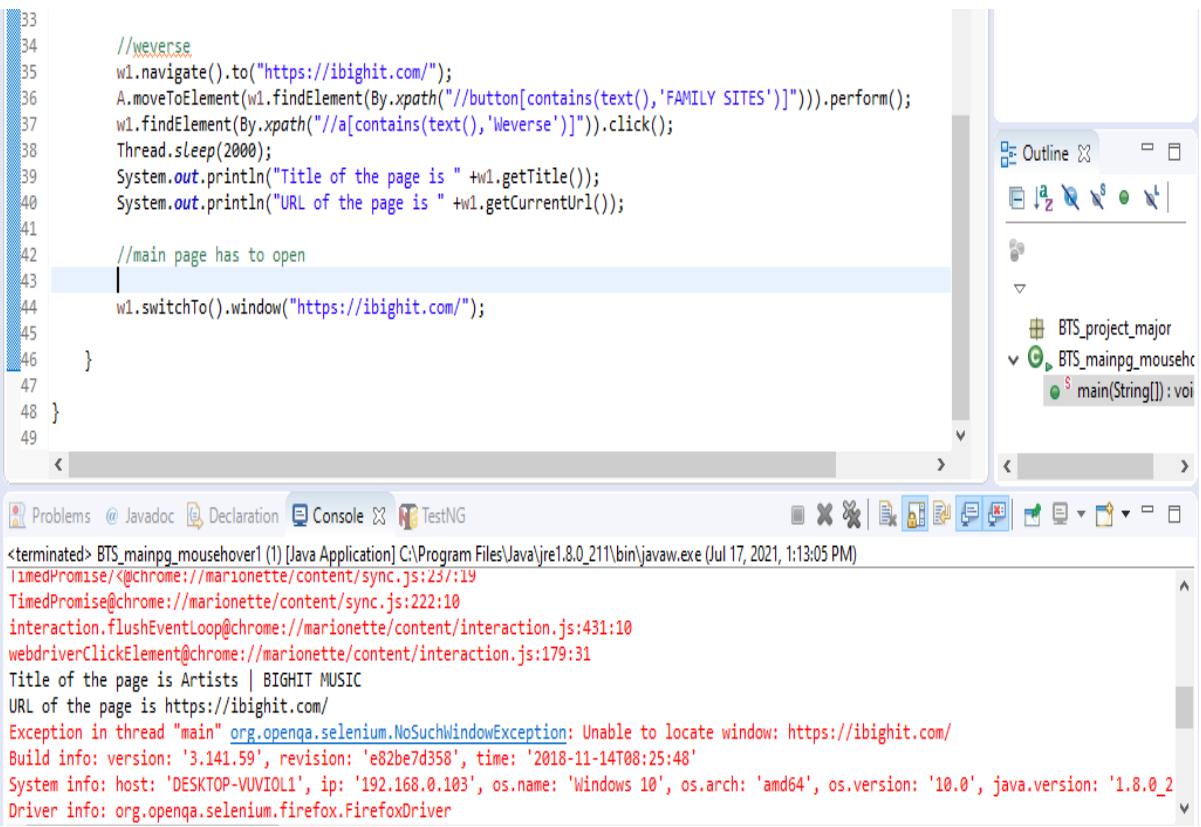
w1.findElement(By.xpath("//a[contains(text(),'Weverse')]")).click();

Thread.sleep(2000);
```

//main page has to open

```
w1.switchTo().window("https://ibighit.com/");
```

TC35: To check the click functionality of getting current URL and title of page



```
33
34     //Weverse
35     w1.navigate().to("https://ibighit.com/");
36     A.moveToElement(w1.findElement(By.xpath("//button[contains(text(),'FAMILY SITES')]"))).perform();
37     w1.findElement(By.xpath("//a[contains(text(),'Weverse')]")).click();
38     Thread.sleep(2000);
39     System.out.println("Title of the page is " +w1.getTitle());
40     System.out.println("URL of the page is " +w1.getCurrentUrl());
41
42     //main page has to open
43     |
44     w1.switchTo().window("https://ibighit.com/");
45
46 }
47
48 }
49 }
```

Problems Declaration Console TestNG

```
<terminated> BTS_mainpg_mouseover1 (1) [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (Jul 17, 2021, 1:13:05 PM)
TimedPromise@chrome://marionette/content/sync.js:25:19
TimedPromise@chrome://marionette/content/sync.js:222:10
interaction.flushEventLoop@chrome://marionette/content/interaction.js:431:10
webdriverClickElement@chrome://marionette/content/interaction.js:179:31
Title of the page is Artists | BIGHIT MUSIC
URL of the page is https://ibighit.com/
Exception in thread "main" org.openqa.selenium.NoSuchWindowException: Unable to locate window: https://ibighit.com/
Build info: version: '3.141.59', revision: 'e82be7d358', time: '2018-11-14T08:25:48'
System info: host: 'DESKTOP-VUVIOL1', ip: '192.168.0.103', os.name: 'Windows 10', os.arch: 'amd64', os.version: '10.0', java.version: '1.8.0_2'
Driver info: org.openqa.selenium.firefox.FirefoxDriver
```

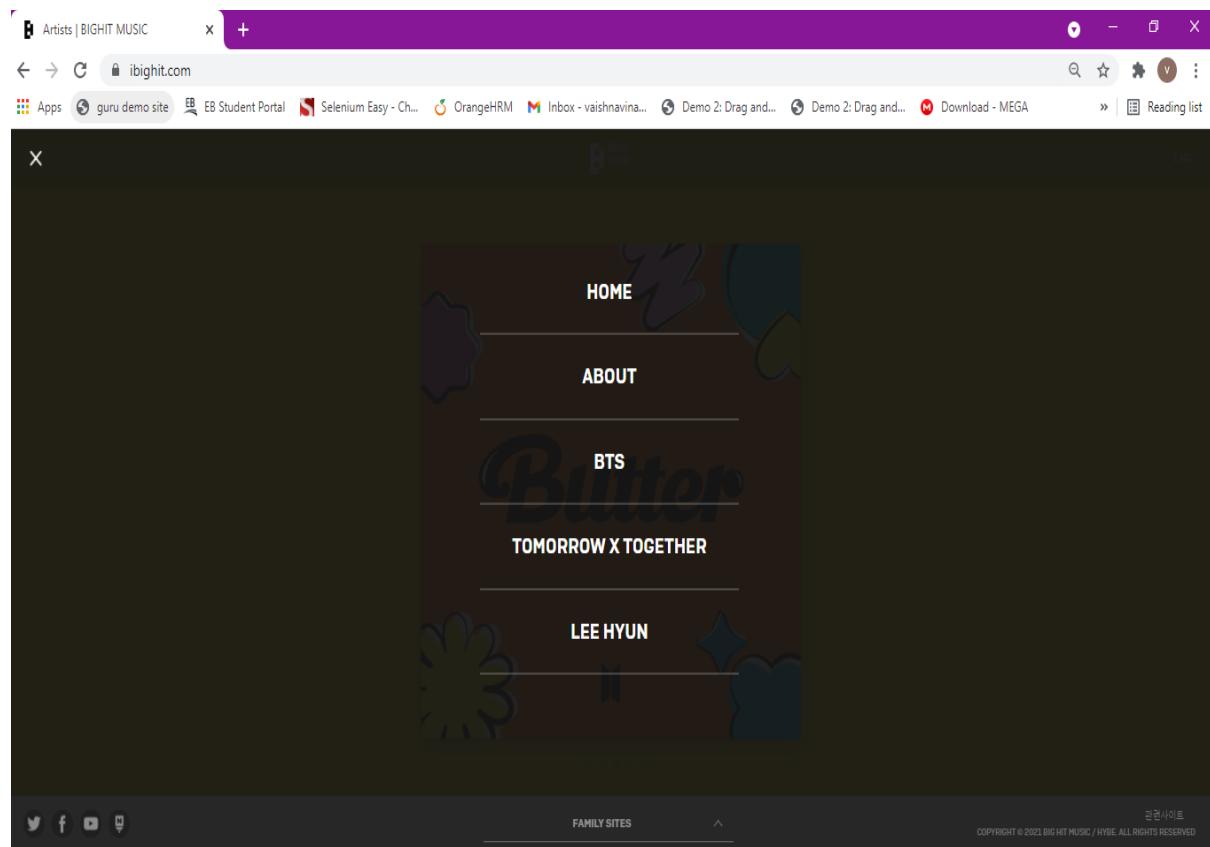
Code:

```
System.out.println("Title of the page is " +w1.getTitle());
System.out.println("URL of the page is " +w1.getCurrentUrl());

//main page has to open

w1.switchTo().window("https://ibighit.com");
```

TC36: To check the click functionality of menu button



Code:

```
w1.get("https://www.google.com");

//enter URL

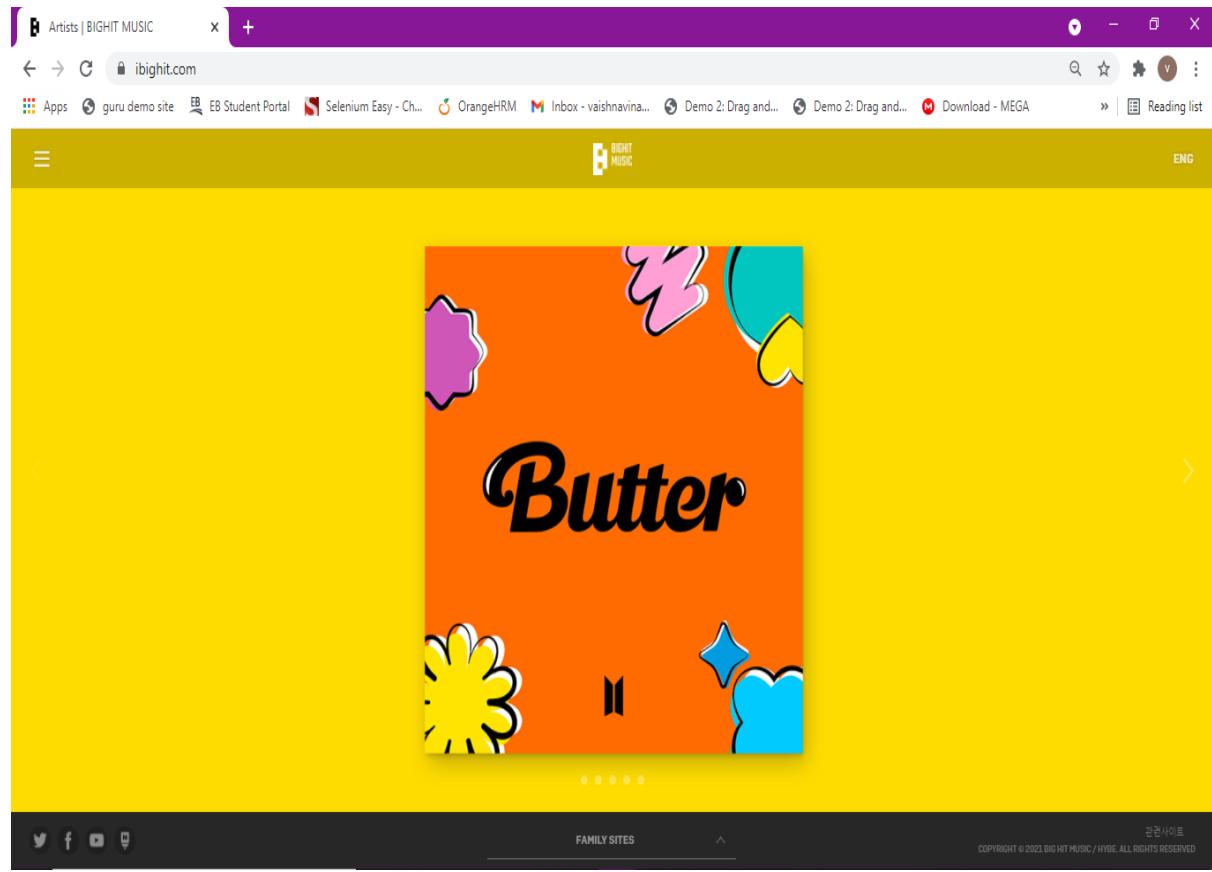
w1.navigate().to("https://ibighit.com/");

//menu icon

w1.findElement(By.xpath("//header/div[1]/button[1]")).click();

Thread.sleep(3000);
```

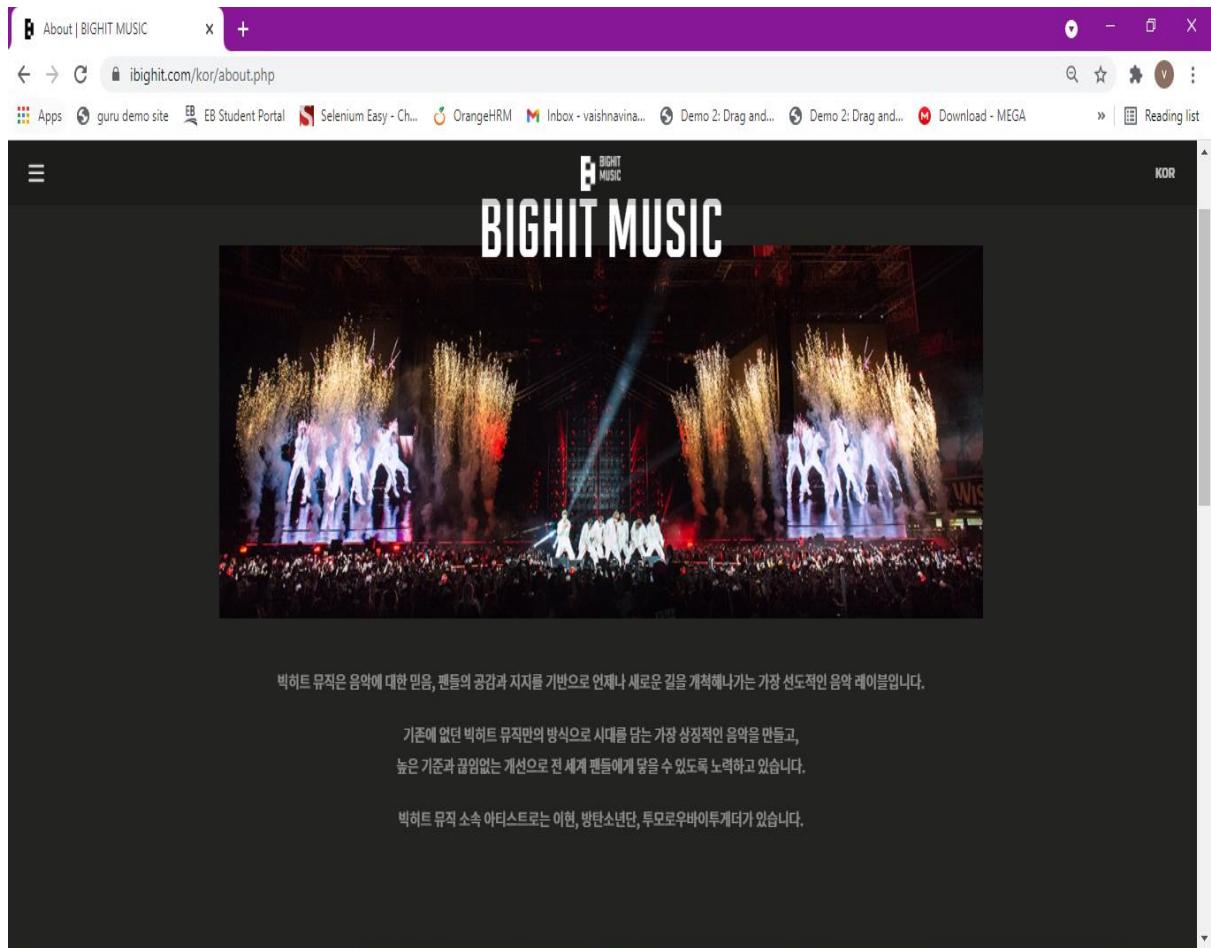
TC37: To check the click functionality of menu button's HOME option=> home page should open



Code:

```
//menu icon  
  
w1.findElement(By.xpath("//header/div[1]/button[1]")).click();  
  
Thread.sleep(3000);  
  
w1.findElement(By.xpath("//button[contains(text(),'HOME')]")).click();
```

TC38: To check the click functionality of menu button's About Us option=> About us page should open



Code:

```
//about us

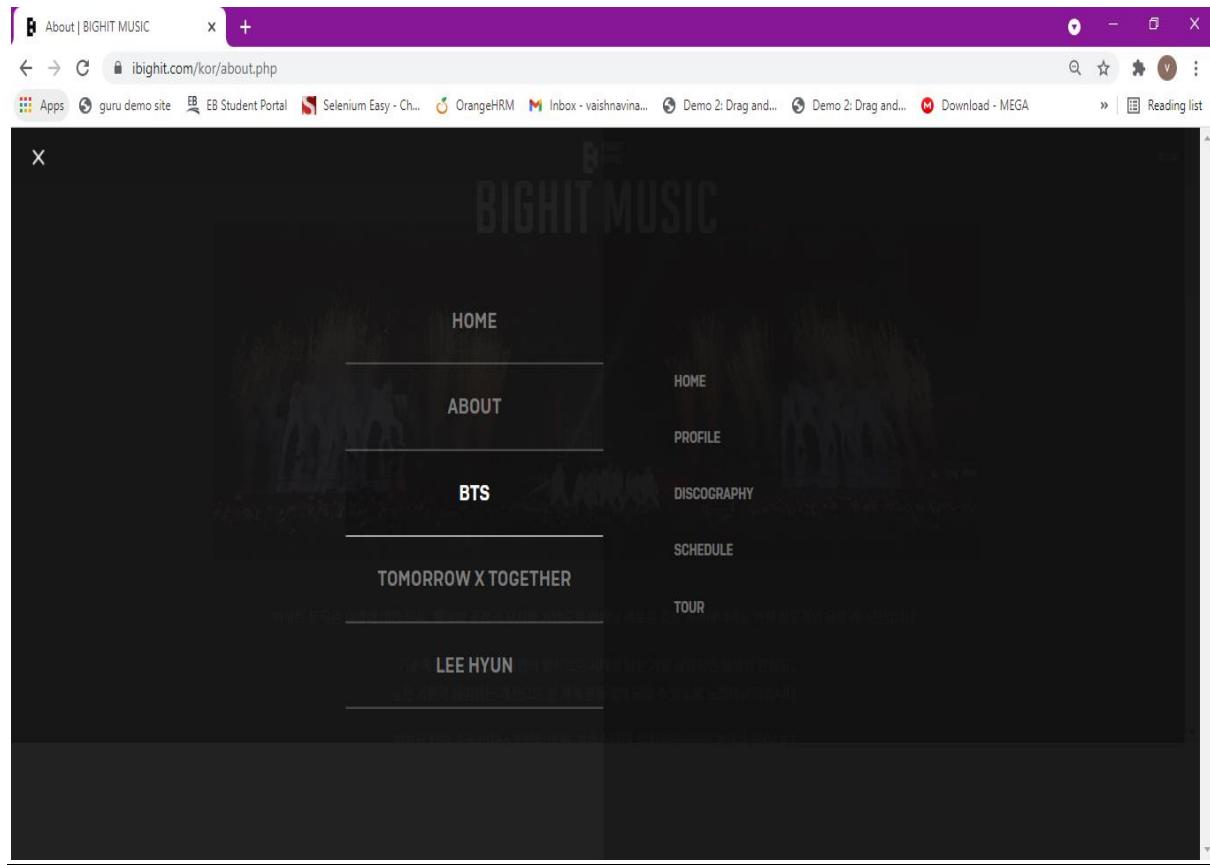
w1.findElement(By.xpath("//header/div[1]/button[1]")).click();

Thread.sleep(3000);

w1.findElement(By.xpath("/html[1]/body[1]/div[1]/header[1]/nav[1]/div[1]/ul[1]/li[2]/div[1]/a[1]")).click();

Thread.sleep(3000);
```

TC39: To check the click functionality of menu button's BTS option=> BTS sub options should open



Code:

```
//BTS

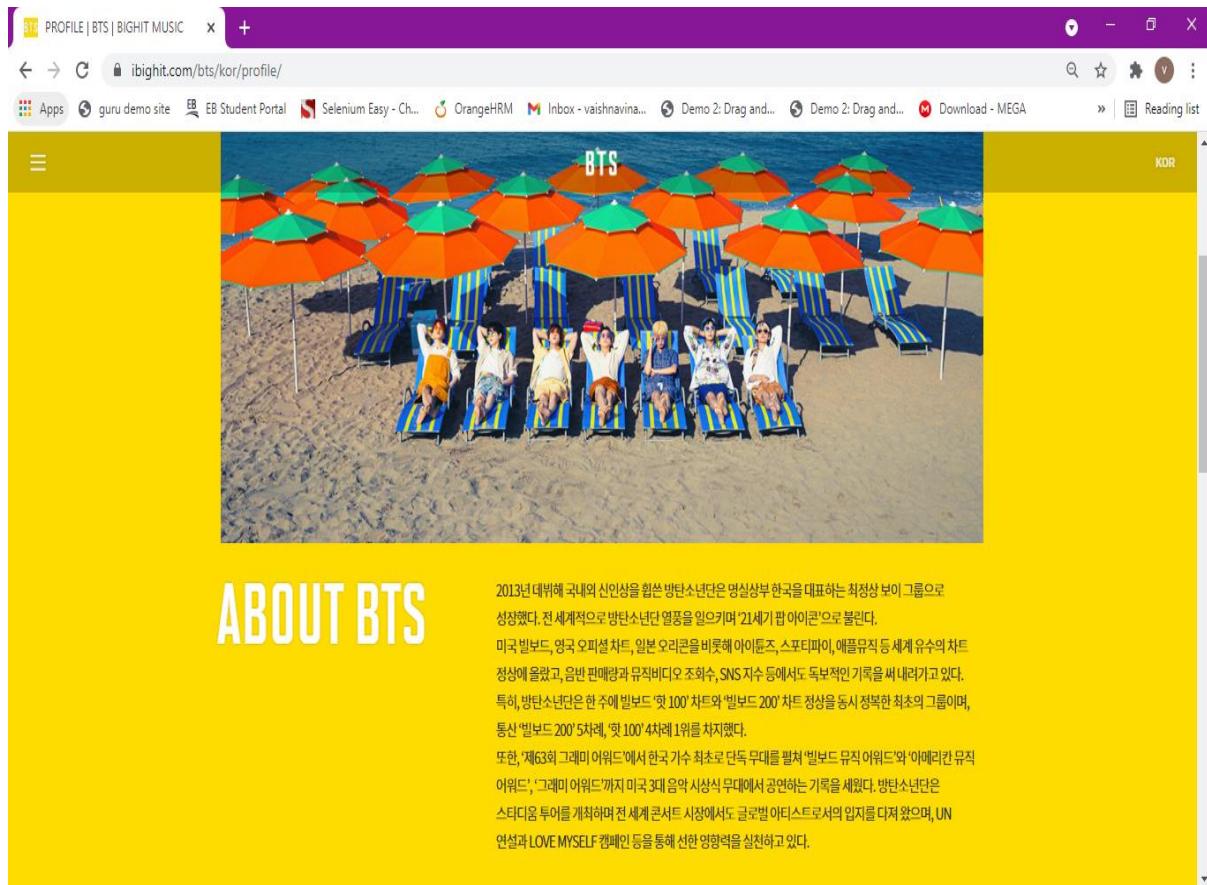
w1.findElement(By.xpath("//header/div[1]/button[1]")).click();

Thread.sleep(3000);

w1.findElement(By.xpath("//button[contains(text(),'BTS')]")).click();

Thread.sleep(3000);
```

TC40: To check the click functionality of menu button's BTS's profile option=> BTS's profile should open



Code:

```
//BTS

w1.findElement(By.xpath("//header/div[1]/button[1]")).click();

Thread.sleep(3000);

w1.findElement(By.xpath("//button[contains(text(),'BTS')]")).click();

Thread.sleep(3000);

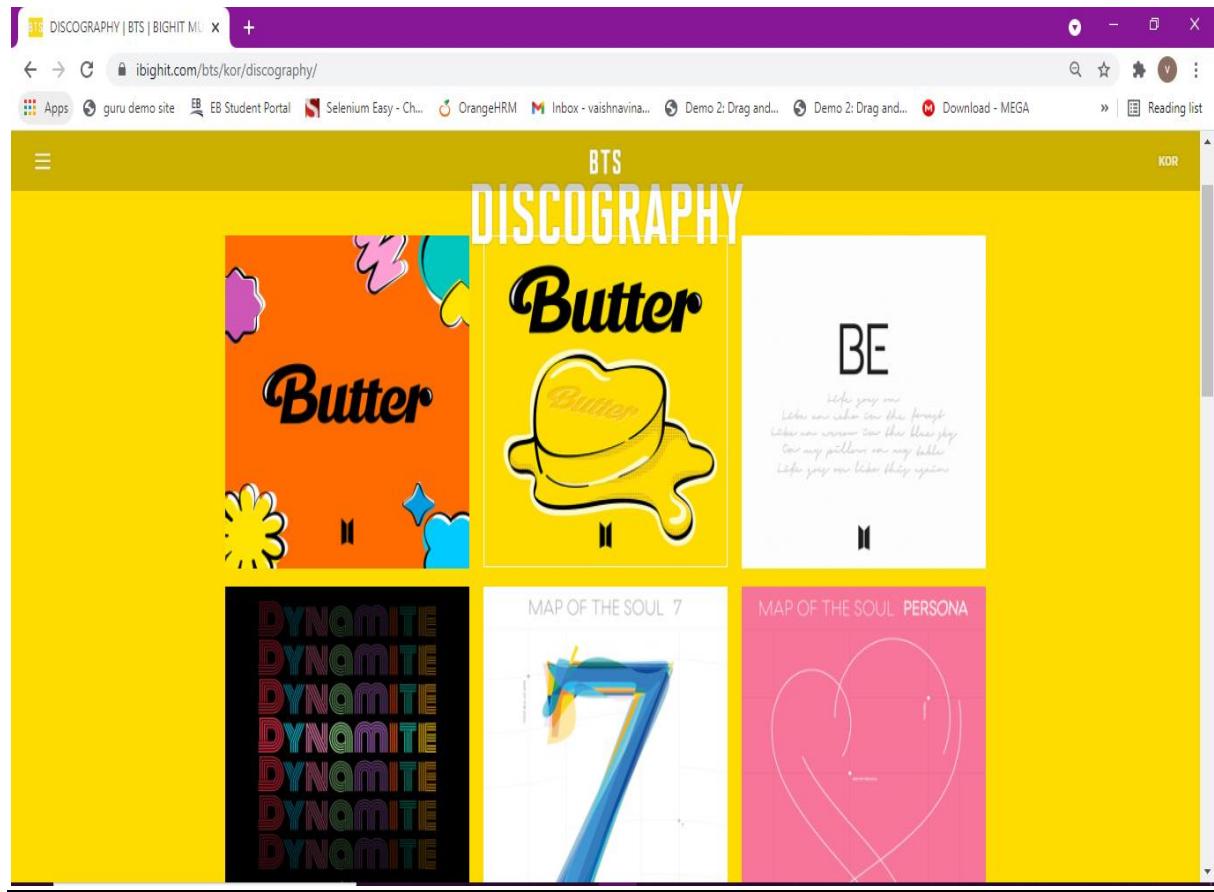
//PROFILE

w1.findElement(By.xpath("//header/nav[1]/div[1]/ul[1]/li[3]/div[2]/div[1]/div[1]/ul[1]/li[2]/a[1]")).click();

Thread.sleep(3000);

w1.navigate().back();
```

**TC41: To check the click functionality of menu button's
BTS's Discography option=> BTS's Discography should open**



Code:

```
//BTS

w1.findElement(By.xpath("//header/div[1]/button[1]")).click();

Thread.sleep(3000);

w1.findElement(By.xpath("//button[contains(text(),'BTS')]")).click();

Thread.sleep(3000);

//DISCOVERY

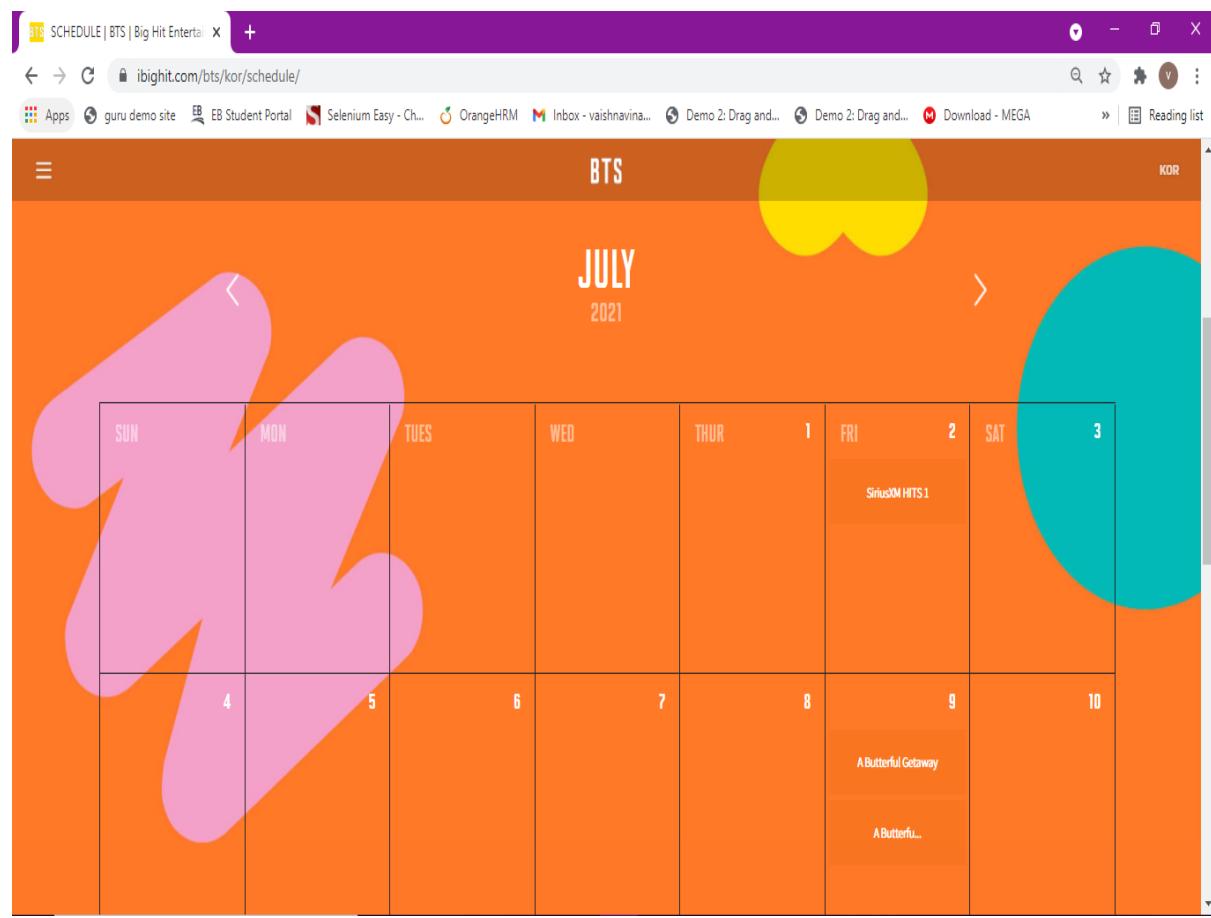
w1.findElement(By.LinkText("DISCOGRAPHY")).click();

Thread.sleep(3000);

w1.navigate().back();

Thread.sleep(3000);
```

**TC42: To check the click functionality of menu button's
BTS's Schedule option=> BTS's Schedule should open**



Code:

```
//BTS

w1.findElement(By.xpath("//header/div[1]/button[1]")).click();

Thread.sleep(3000);

w1.findElement(By.xpath("//button[contains(text(),'BTS')]")).click();

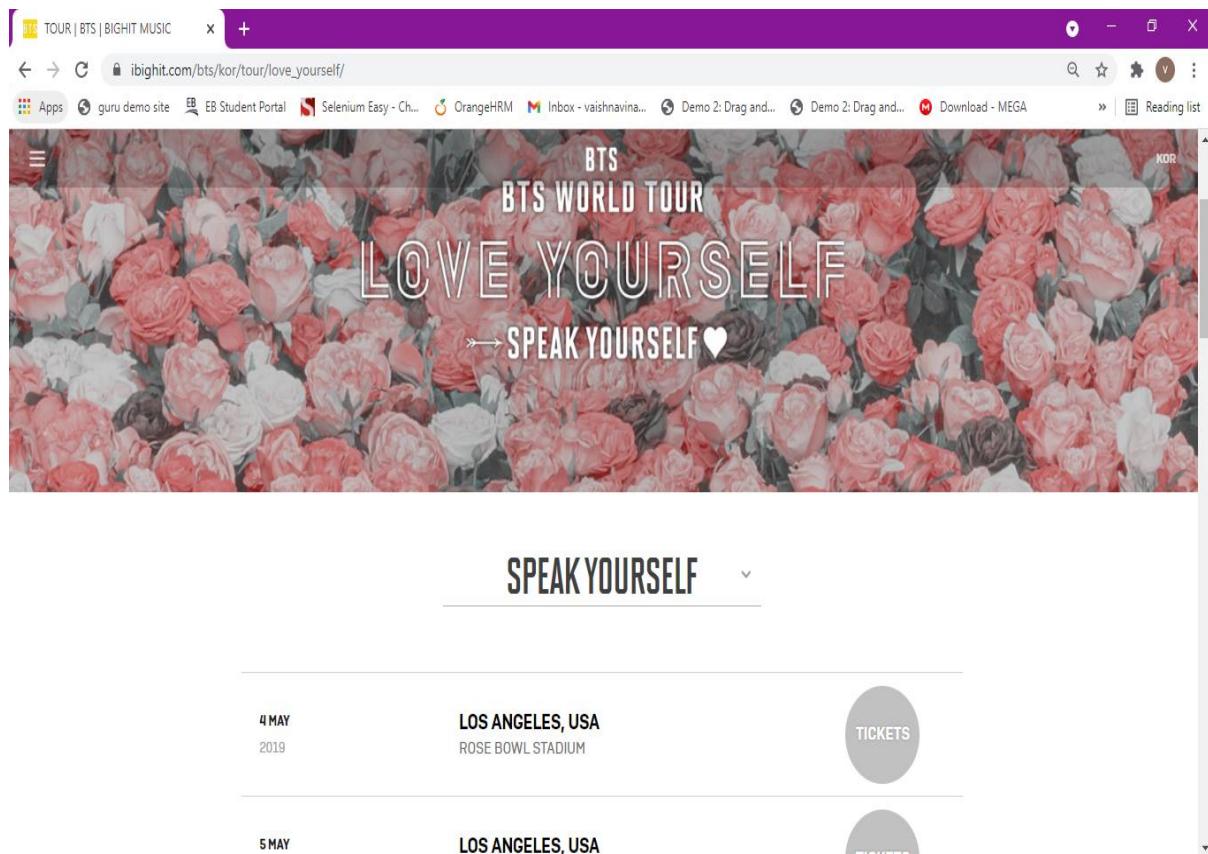
Thread.sleep(3000);

//SCHEDULE

w1.findElement(By.linkText("SCHEDULE")).click();

Thread.sleep(3000);
```

TC43: To check the click functionality of menu button's BTS's TOUR option=> BTS's TOUR should open



Code:

```
//BTS

w1.navigate().back();

Thread.sleep(3000);

w1.findElement(By.xpath("//header/div[1]/button[1]")).click();

Thread.sleep(3000);

w1.findElement(By.xpath("//button[contains(text(),'BTS')]")).click();

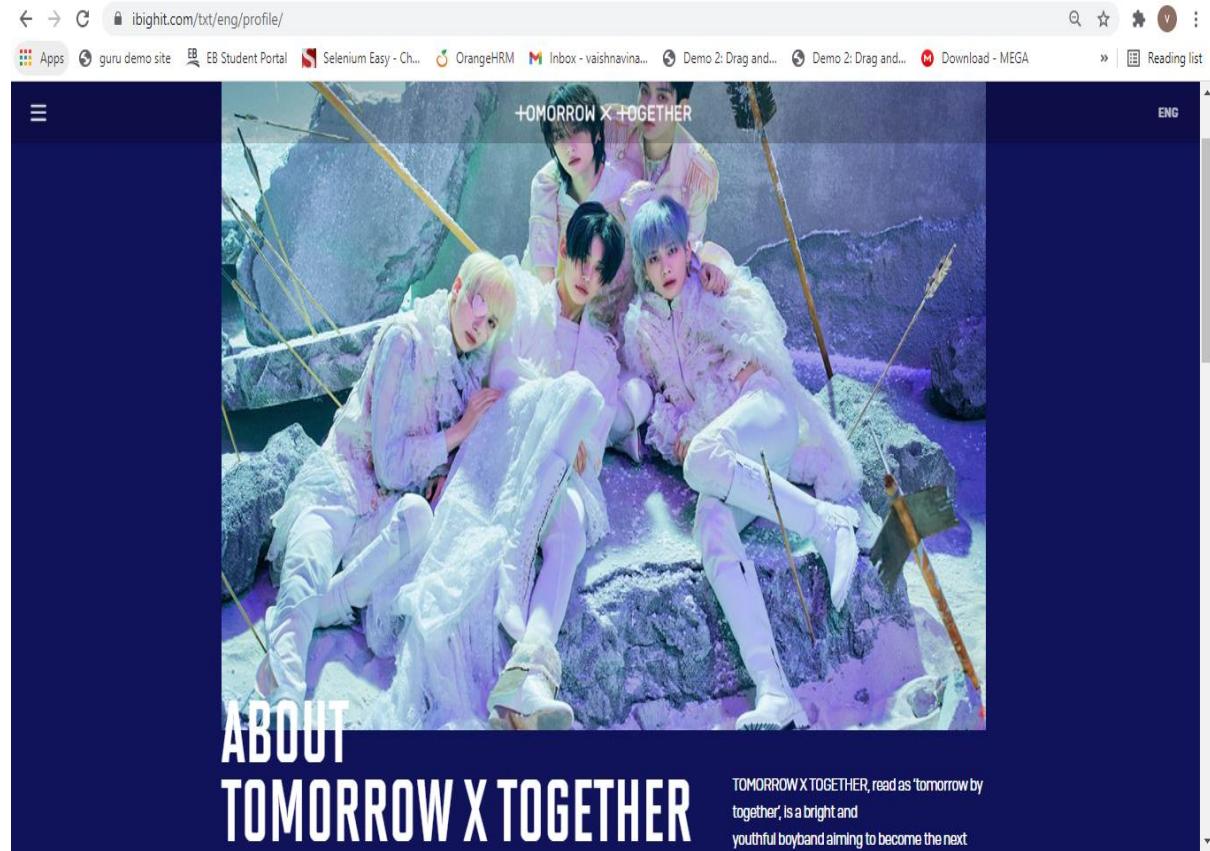
Thread.sleep(3000);

//TOUR

w1.findElement(By.LinkText("TOUR")).click();

Thread.sleep(3000);
```

TC44: To check the click functionality of menu button's Tomorrow x together profile option=> Tomorrow x together profile should open



Code:

```
//TOMORROW
w1.findElement(By.xpath("//header/div[1]/button[1]")).click();
Thread.sleep(3000);

w1.findElement(By.xpath("/html[1]/body[1]/div[1]/header[1]/nav[1]/div[1]/ul[1]/li[4]/div[1]/button[1]")).click();

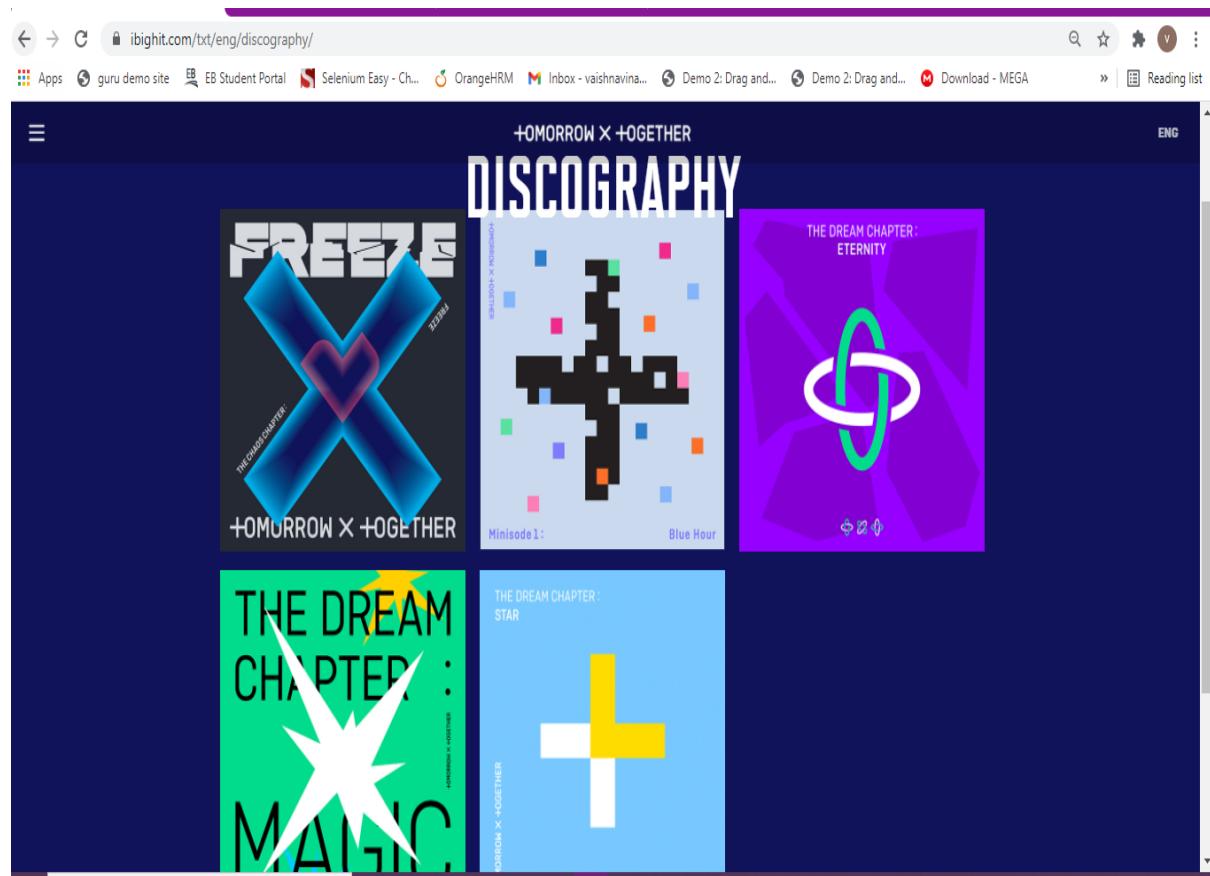
Thread.sleep(3000);

//PROFILE

w1.findElement(By.xpath("//header/nav[1]/div[1]/ul[1]/li[4]/div[2]/div[1]/div[1]/li[1]/li[2]/a[1]")).click();

Thread.sleep(3000);
w1.navigate().back();
Thread.sleep(3000);
```

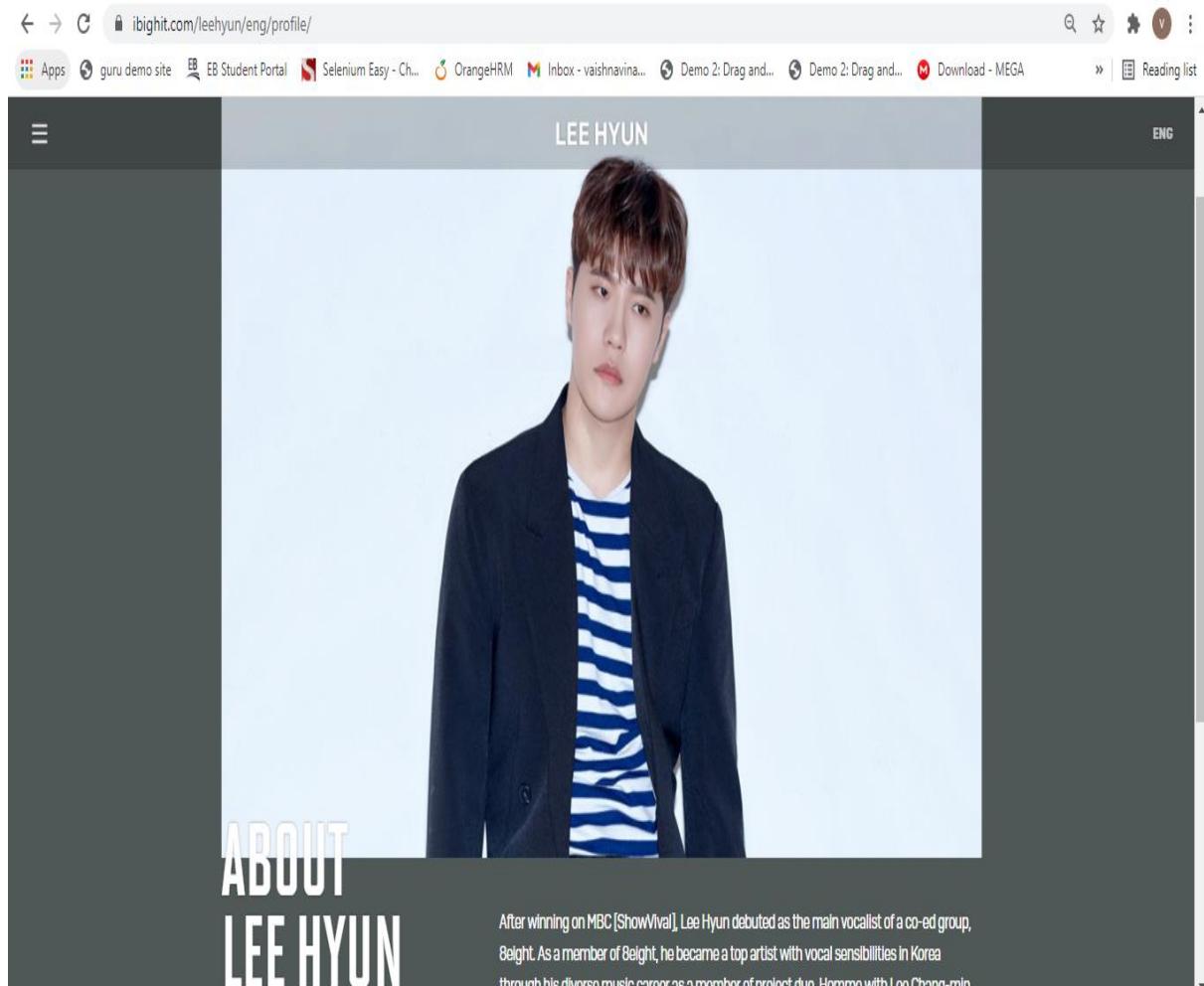
TC45: To check the click functionality of menu button's Tomorrow x together Discography option=> Tomorrow x together Discography should open



Code:

```
//DISCOGRAPHY  
  
w1.findElement(By.xpath("//header/div[1]/button[1]")).click();  
  
Thread.sleep(3000);  
  
w1.findElement(By.xpath("/html[1]/body[1]/div[1]/header[1]/nav[1]/div[1]/ul[1]/li[4]/div[1]/button[1]")).click();  
  
Thread.sleep(3000);  
  
w1.findElement(By.LinkText("DISCOGRAPHY")).click();  
  
Thread.sleep(3000);  
  
w1.navigate().back();
```

TC46: To check the click functionality of menu button's LEE HYUN Profile option=> LEE HYUN Profile page should open



Code:

```
//LEE HYUN

w1.findElement(By.xpath("//header/div[1]/button[1]")).click();

Thread.sleep(3000);

w1.findElement(By.xpath("/html[1]/body[1]/div[1]/header[1]/nav[1]/div[1]/ul[1]/li[5]/div[1]/button[1]")).click();

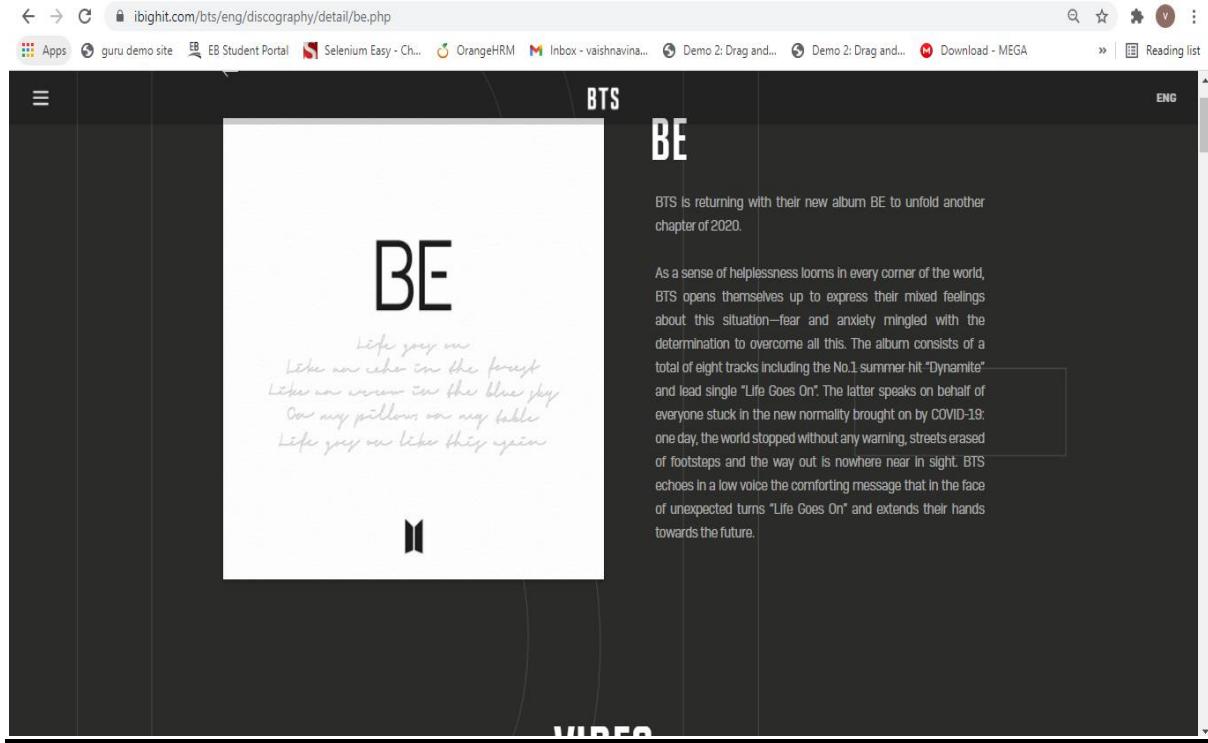
Thread.sleep(3000);

//PROFILE

w1.findElement(By.xpath("//header/nav[1]/div[1]/ul[1]/li[5]/div[2]/div[1]/div[1]/ul[1]/li[2]/a[1]")).click();

Thread.sleep(3000);
```

TC47: To check the click functionality of menu button's BTS Discography Page => BTS Discography's BE page should open



Code:

```
//DISCOVERY

w1.findElement(By.LinkText("DISCOGRAPHY")).click();

Thread.sleep(3000);

//BE

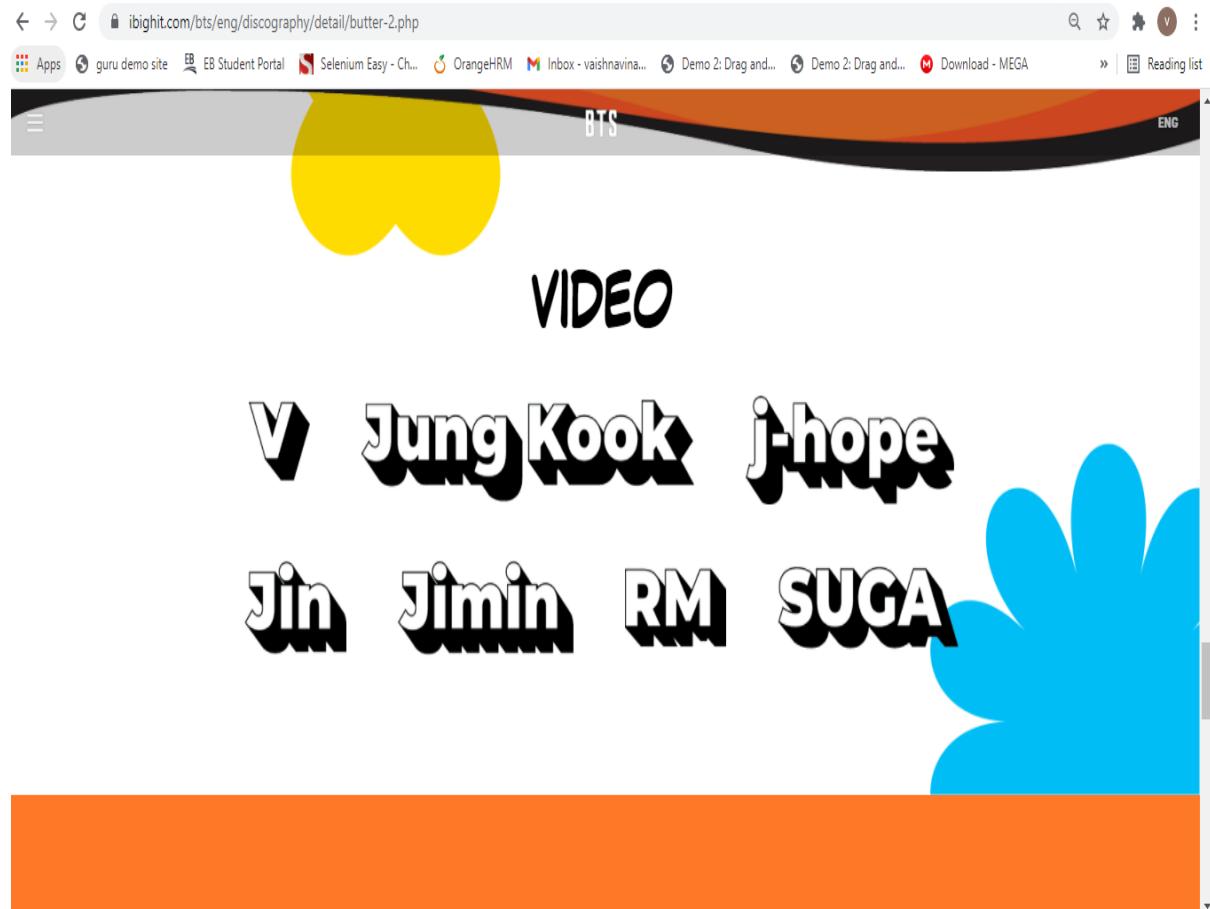
w1.findElement(By.xpath("/html/body/div/main/section/div/ul/li[3]/a/div[1]/img")).click();

Thread.sleep(3000);

w1.navigate().back();

Thread.sleep(3000);
```

**TC48: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's BUTTER page
should open**



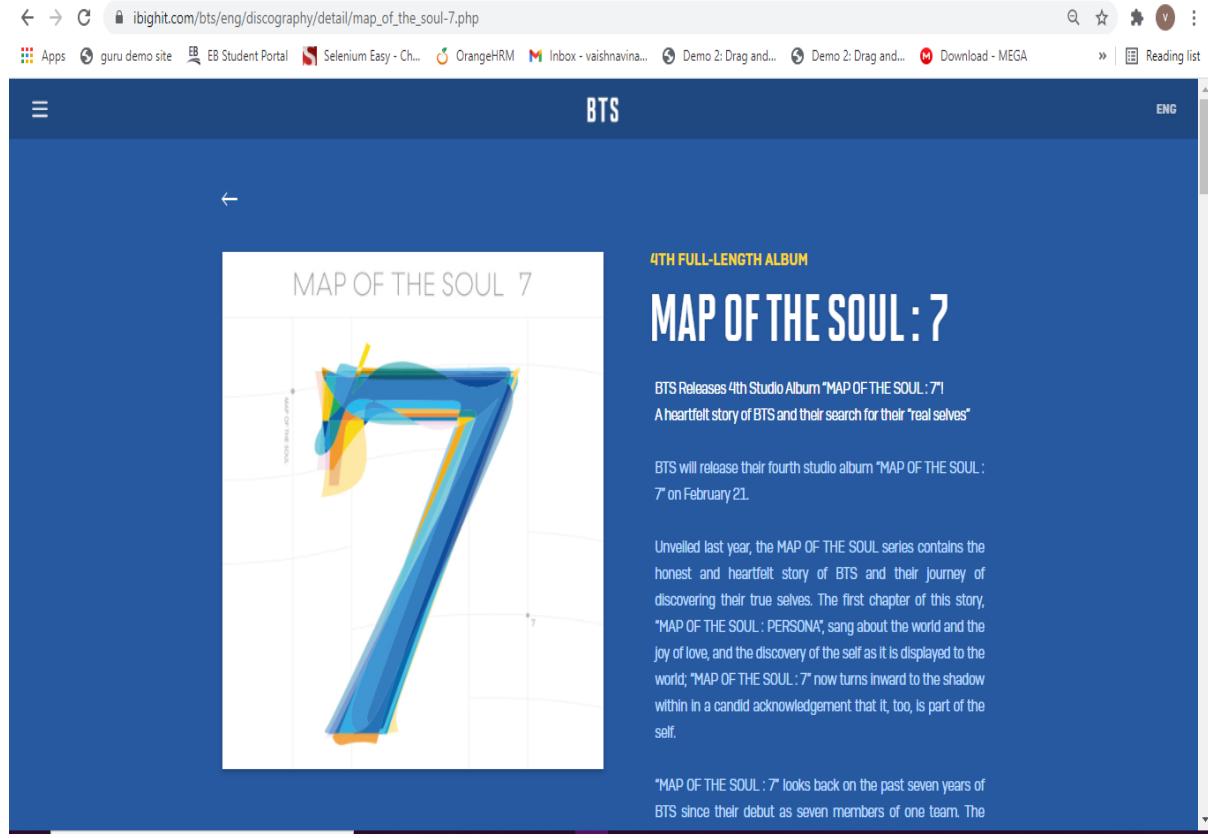
Code:

```
//Butter

w1.findElement(By.xpath("//html/body/div/main/section/div/ul/li[1]/a/div[1]/img")).click();

Thread.sleep(3000);
```

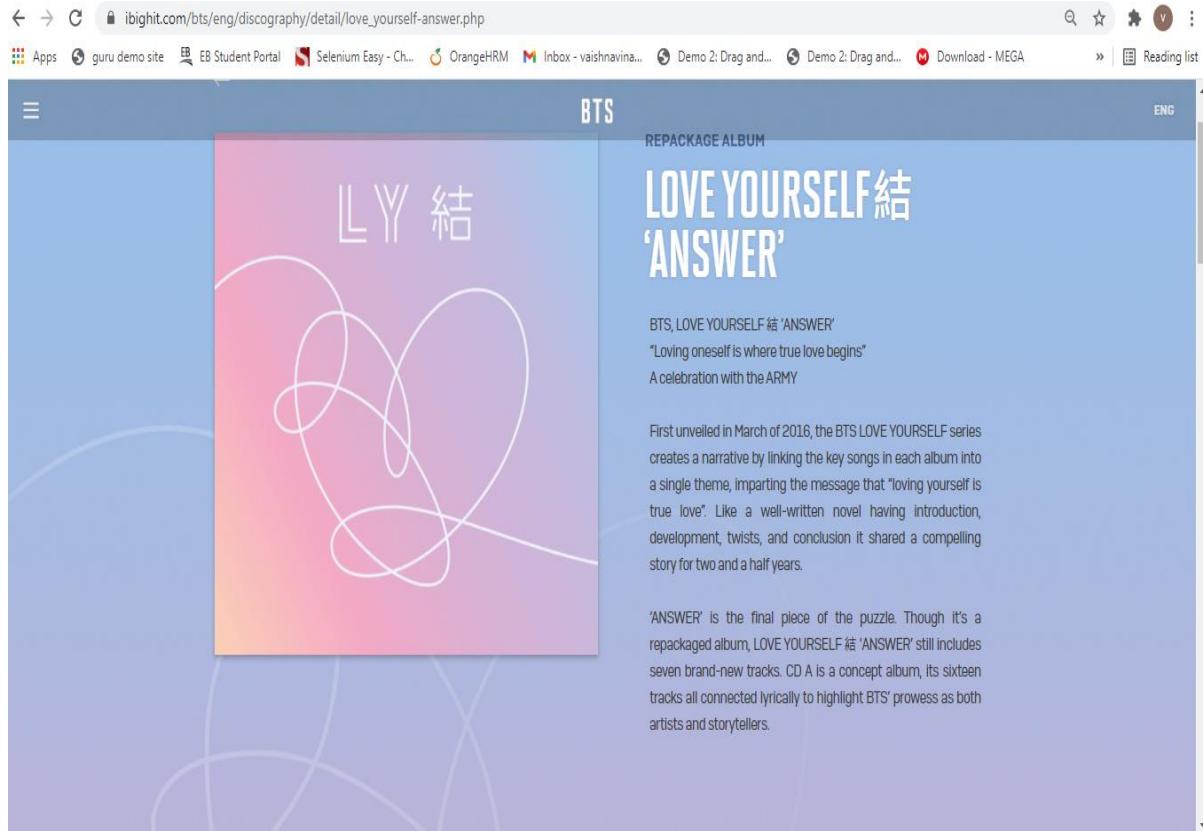
**TC49: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's MAP OF SOUL page
should open**



Code:

```
//map of soul
w1.findElement(By.xpath("/html/body/div/main/section/div/ul/li[5]/a/div[1]/img")).click();
Thread.sleep(3000);
```

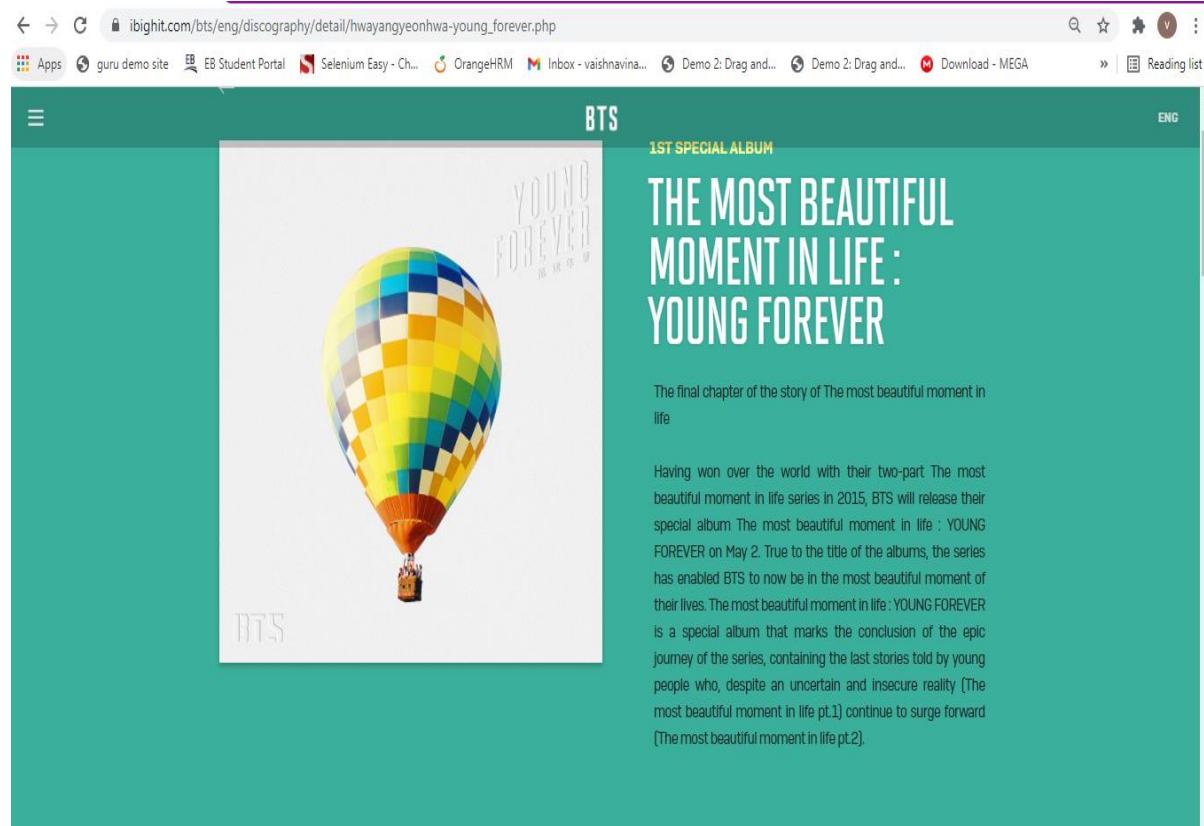
**TC50: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's LOVE YOURSELF
page should open**



Code:

```
//love your self  
  
w1.findElement(By.xpath("//html/body/div/main/section/div/ul/li[7]/a/div[1]/img")).  
click();  
  
Thread.sleep(3000);
```

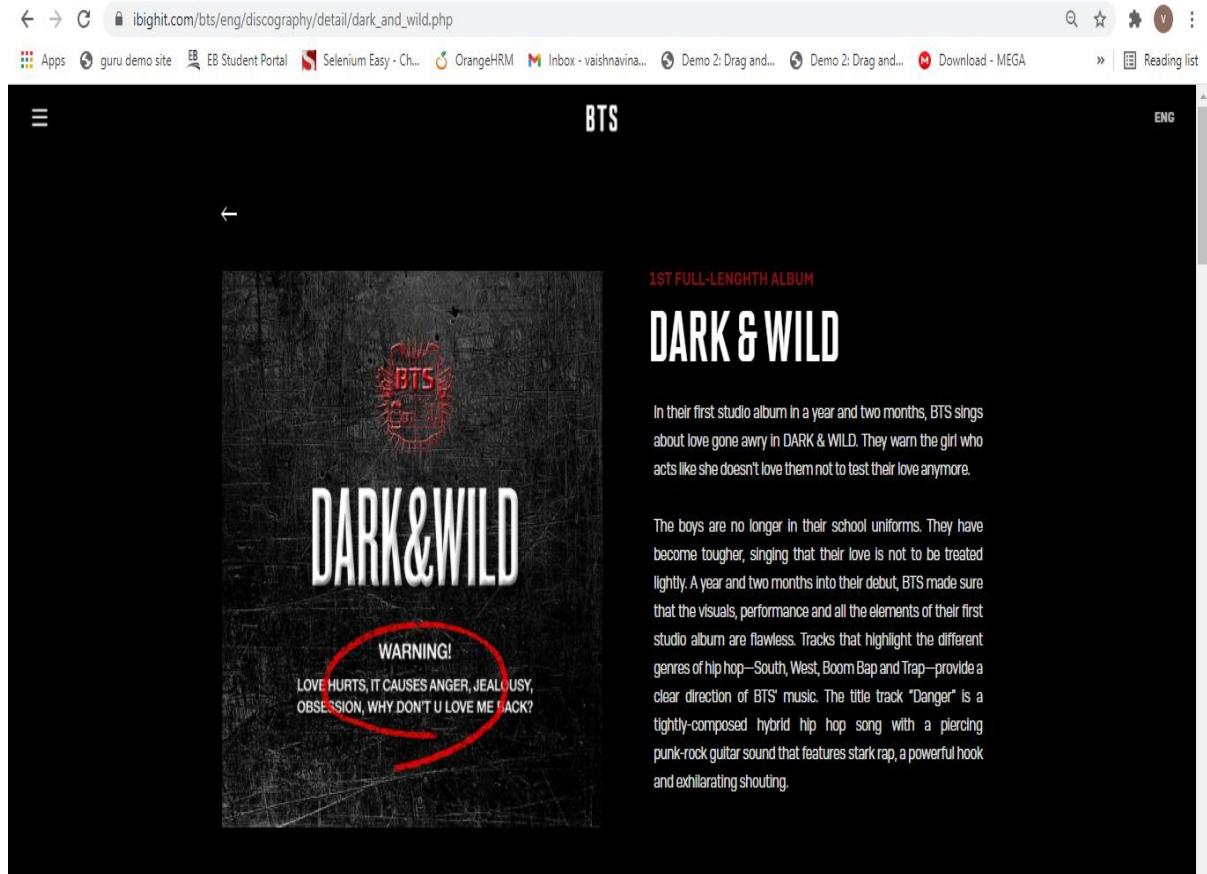
**TC51: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's YOUNG FOREVER
page should open**



Code:

```
//young forever  
  
w1.findElement(By.xpath("/html/body/div/main/section/div/ul/li[12]/a/div[1]/img"))  
.click();  
  
Thread.sleep(3000);
```

**TC52: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's DARK & WILD page
should open**



Code:

```
//dark & wild

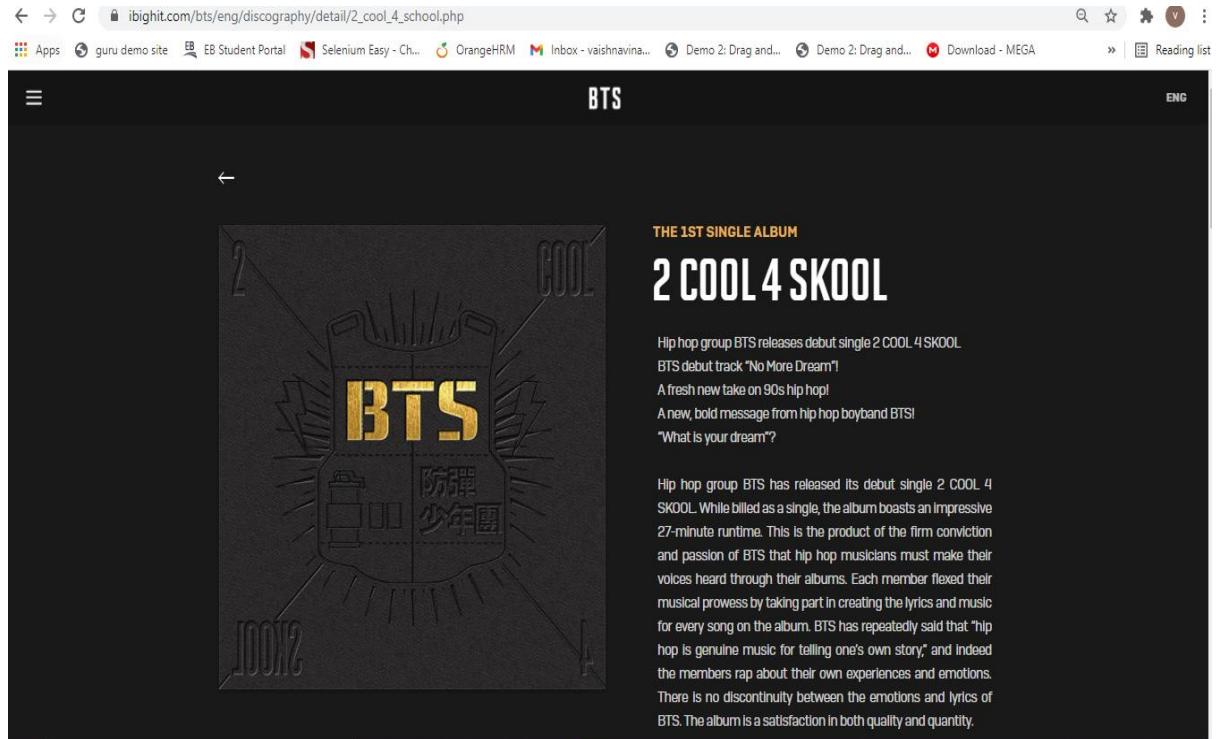
w1.findElement(By.xpath("/html/body/div/main/section/div/ul/li[15]/a/div[1]/img"))
.click();

Thread.sleep(3000);

w1.navigate().back();

Thread.sleep(3000);
```

**TC53: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's 2 COOL 4 SKOOL
page should open**



Code:

```
//2 cool 4 skool

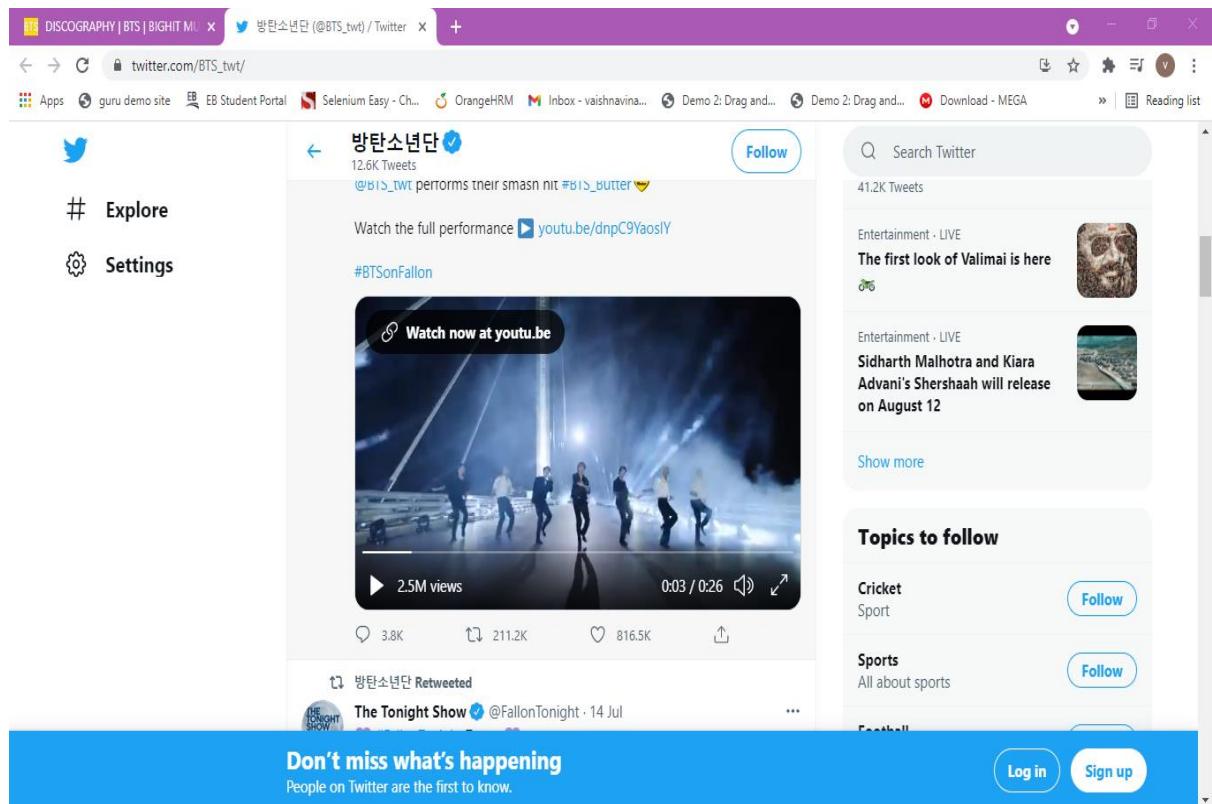
w1.findElement(By.xpath("//html/body/div/main/section/div/ul/li[18]/a/div[1]/img"))
.click();

Thread.sleep(3000);

w1.navigate().back();

Thread.sleep(3000);
```

**TC54: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's TWITTER icon
page should open**



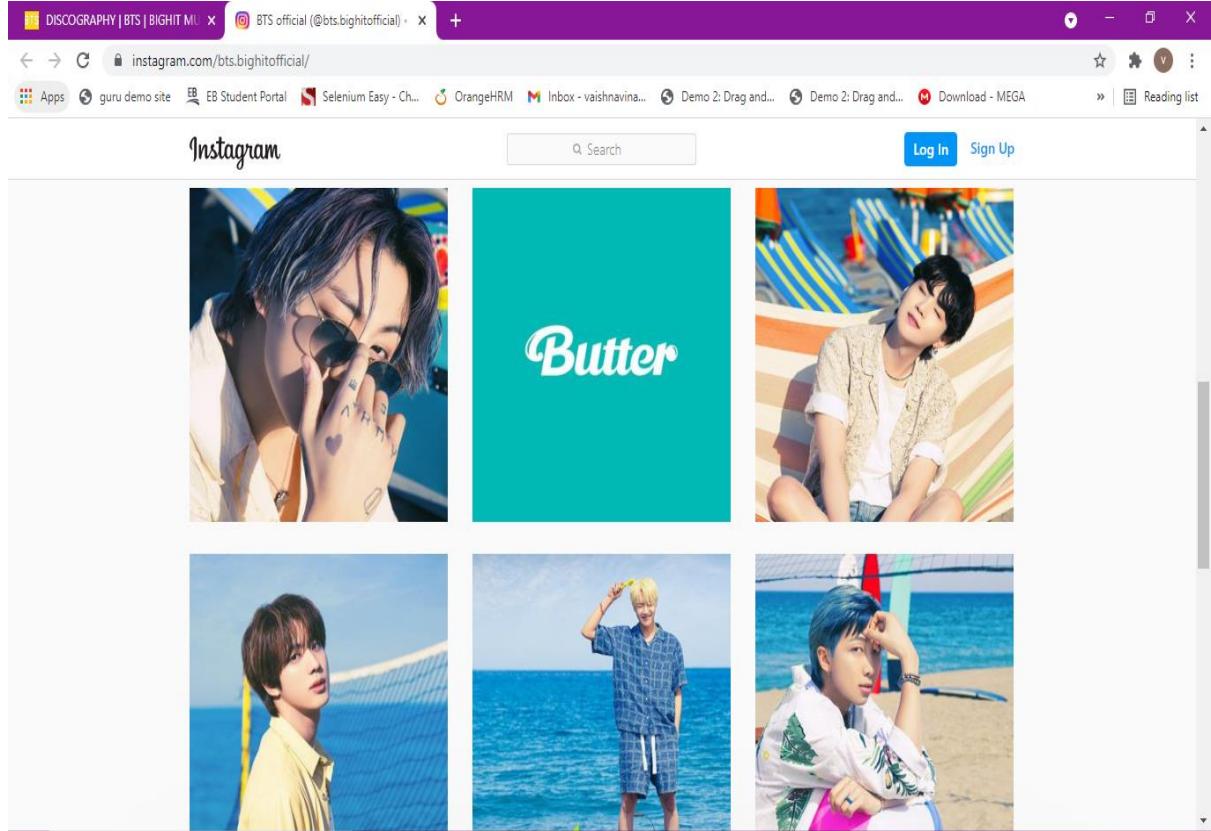
Code:

```
//twitter

w1.findElement(By.xpath("/html/body/div/footer/div/div[1]/ul/li[2]/a")).click();

Thread.sleep(3000);
```

**TC55: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's INSTAGRAM icon
page should open**



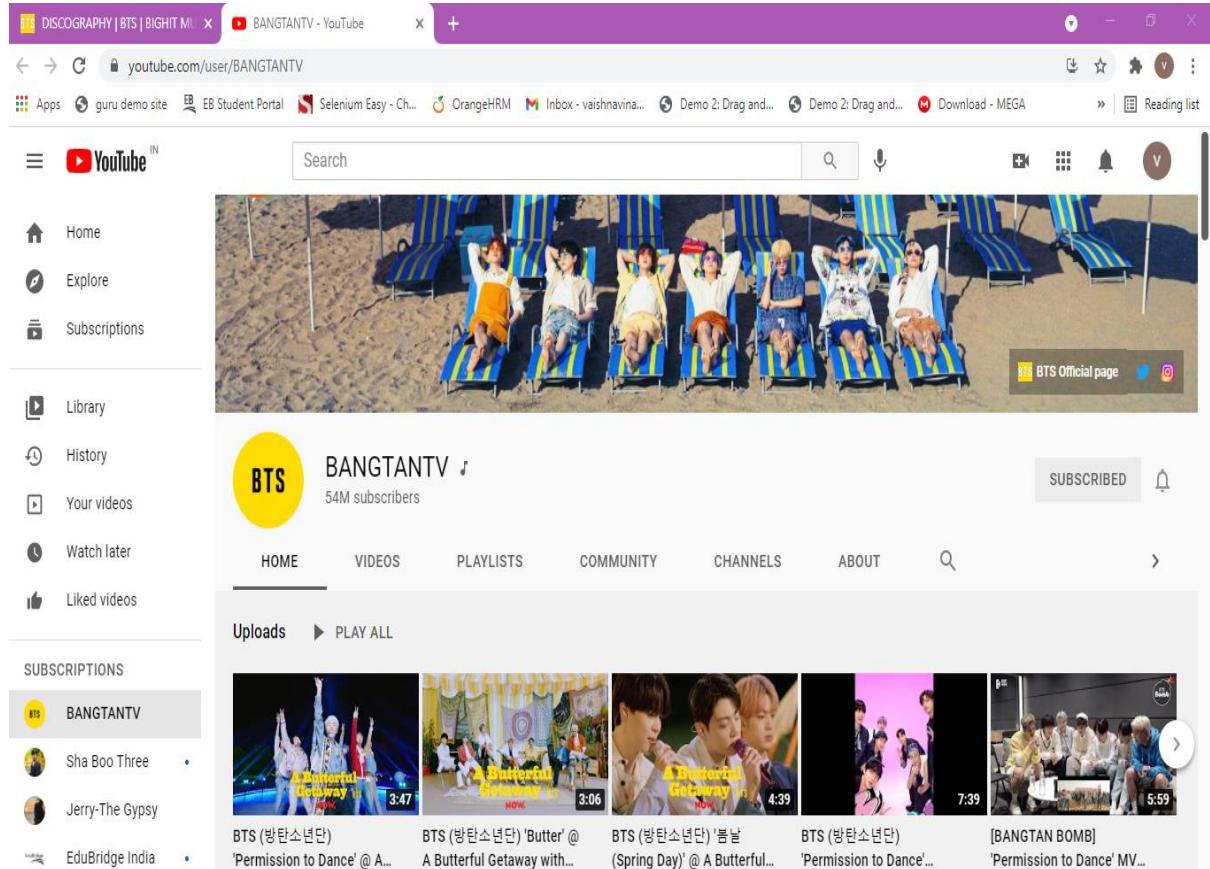
Code:

```
//instagram

w1.findElement(By.xpath("//body/div[1]/footer[1]/div[1]/div[1]/ul[1]/li[4]/a[1]"))
.click();

Thread.sleep(3000);
```

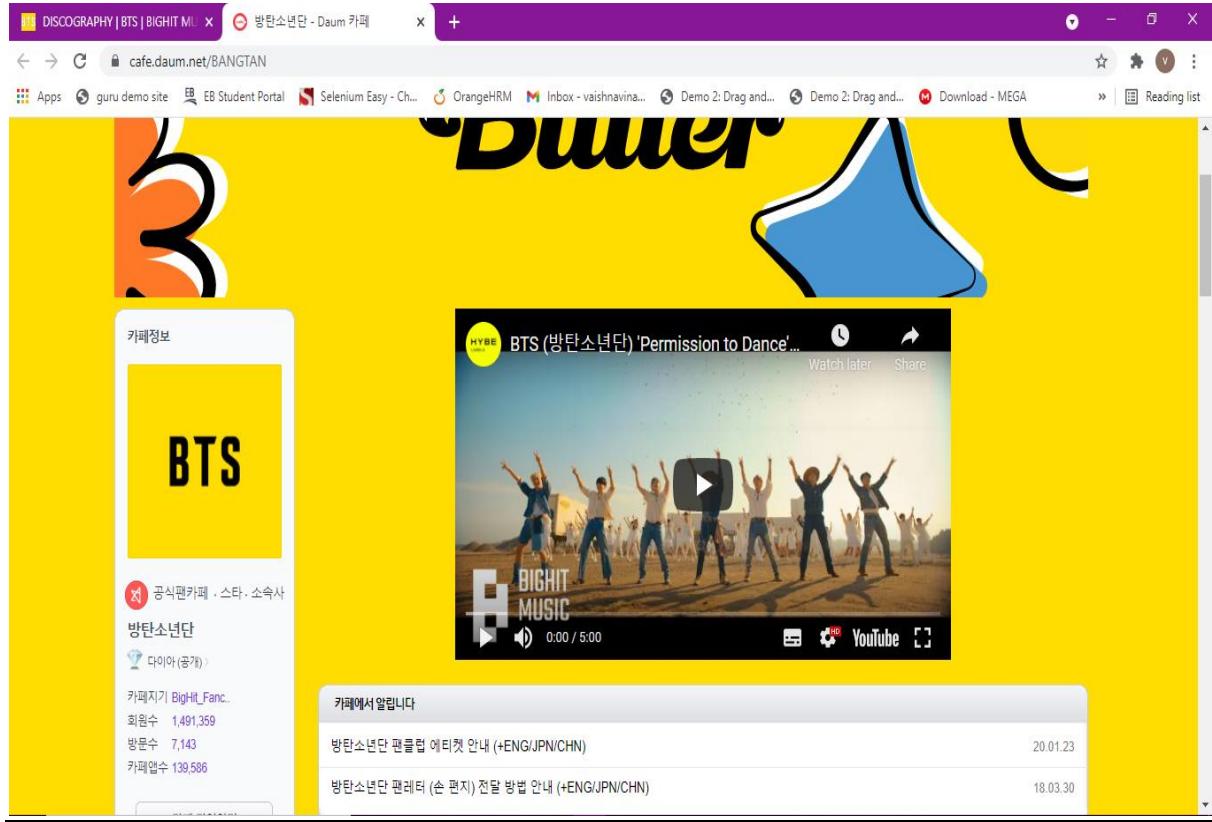
**TC56: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's YOUTUBE icon
page should open**



Code:

```
//youtube
w1.findElement(By.xpath("//html/body/div/footer/div/div[1]/ul/li[5]/a")).click();
Thread.sleep(3000);
```

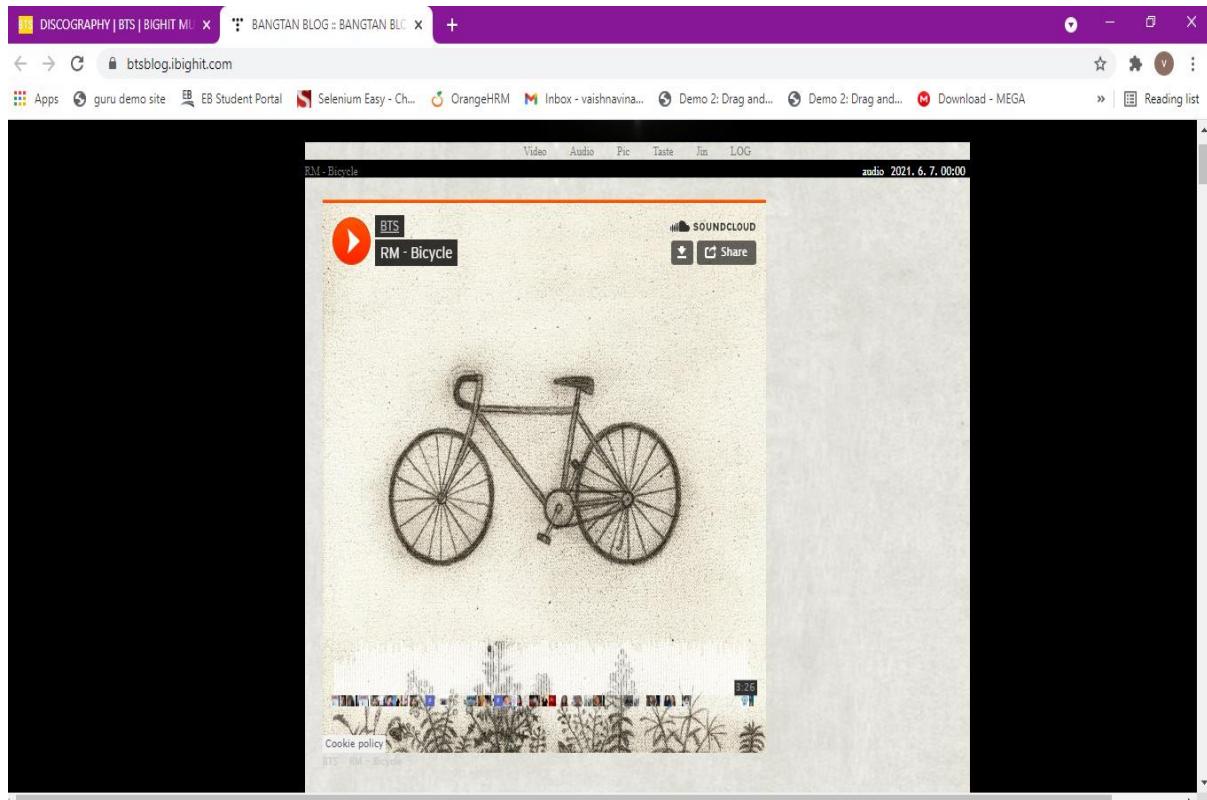
TC57: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's CAFE icon page
should open



Code:

```
// cafe  
  
w1.findElement(By.xpath("/html/body/div/footer/div/div[1]/ul/li[10]/a")).click();  
  
Thread.sleep(3000);
```

**TC58: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's BLOG icon page
should open**

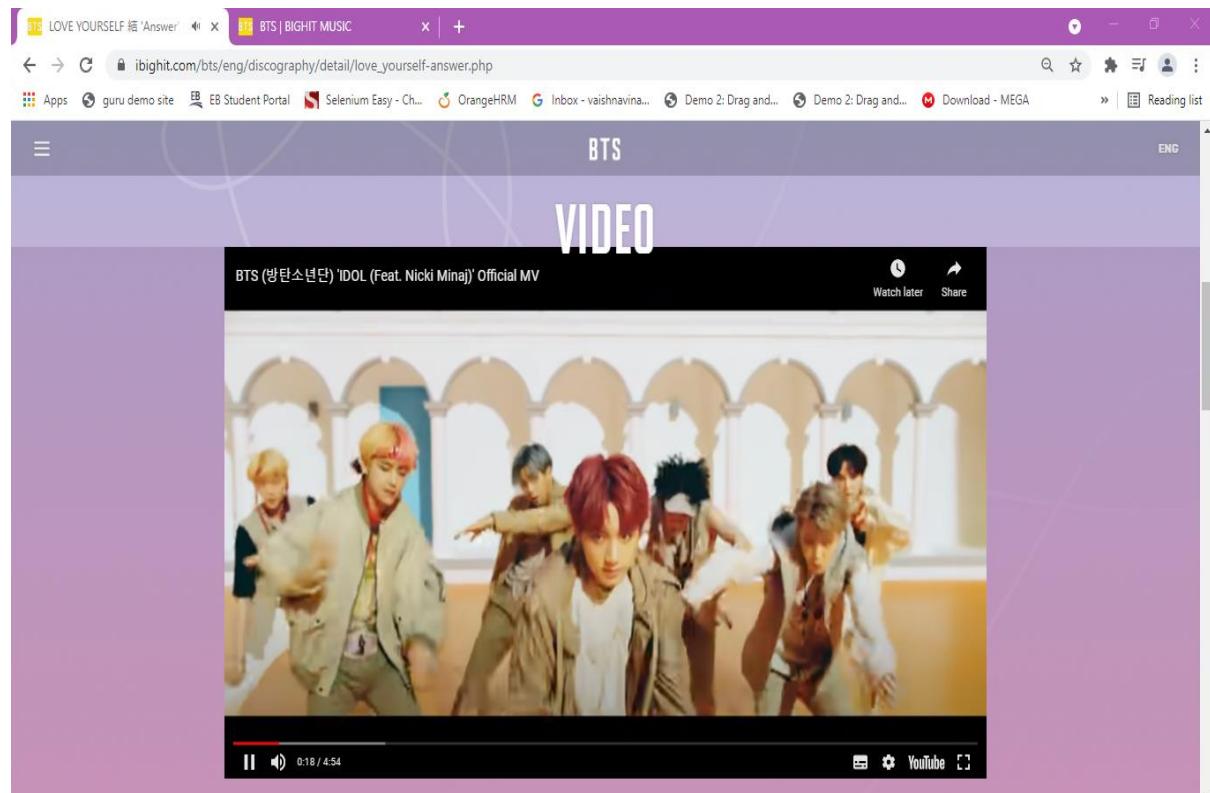


Code:

```
// bts blog
w1.findElement(By.xpath("/html/body/div/footer/div/div[1]/ul/li[11]/a")).click();
Thread.sleep(3000);

w1.switchTo().window("https://ibighit.com/bts/eng/discography/");
```

**TC59: To check the click functionality of menu button's
BTS Discography Page => BTS Discography's LOVE YOURSELF
PAGE should open and VIDEO should play**



Code:

```
//love your self

w1.findElement(By.xpath("/html/body/div/main/section/div/ul/li[7]/a/div[1]/img")).click();

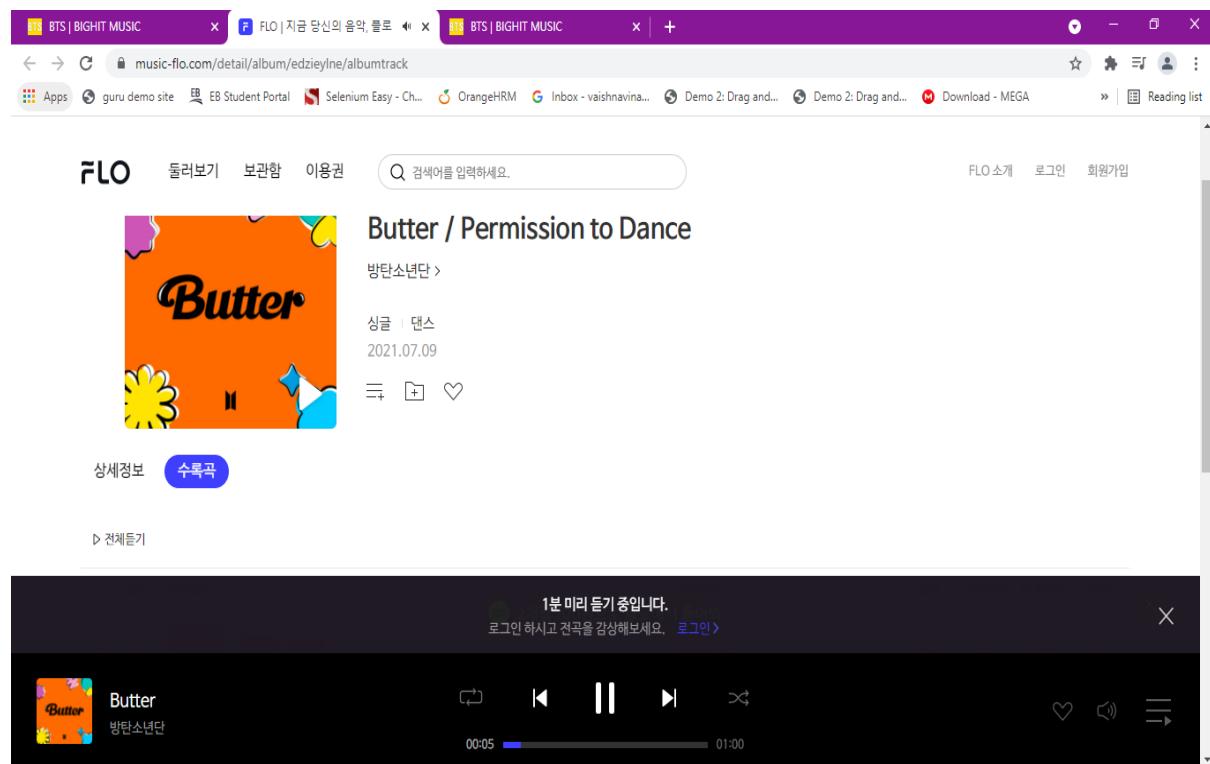
Thread.sleep(3000);

//video playing

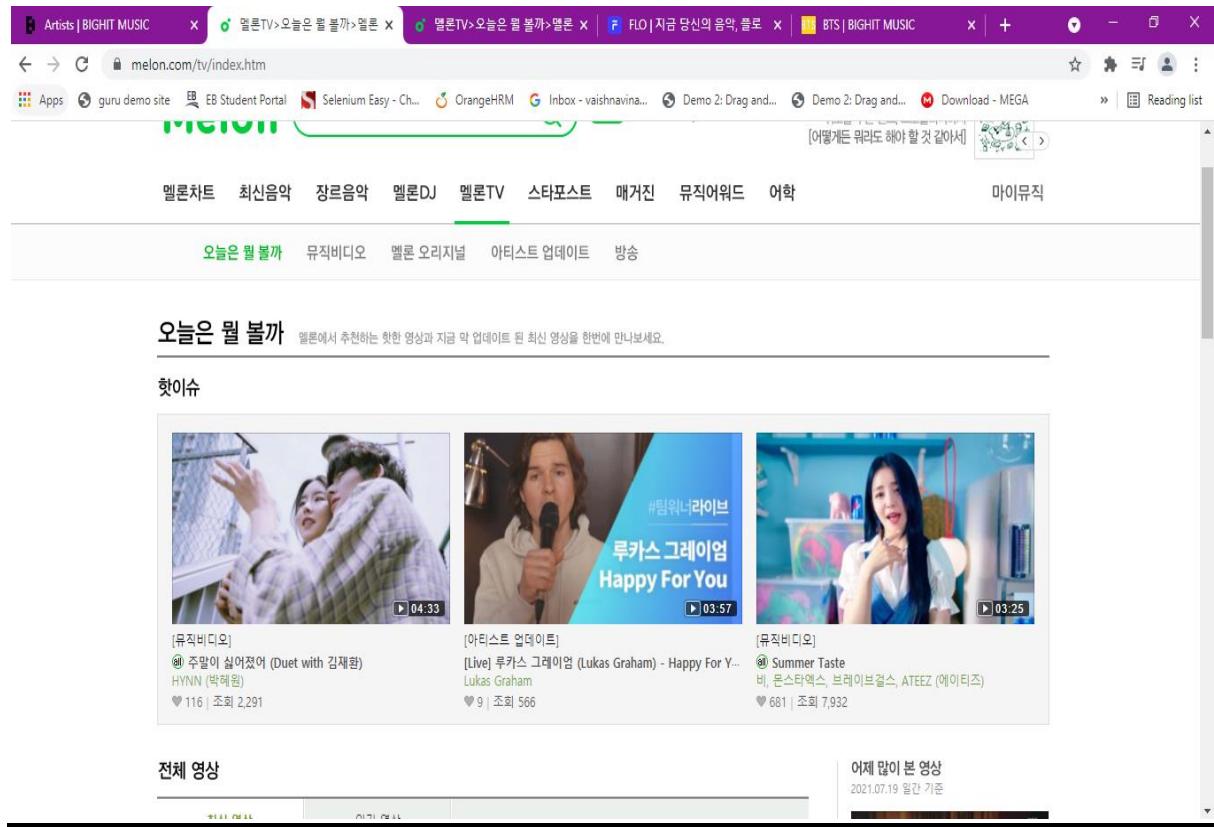
w1.findElement(By.xpath("/html/body/div/main/section[2]/div/ul/li[4]/div/button")).click();
```

MANUAL TESTING

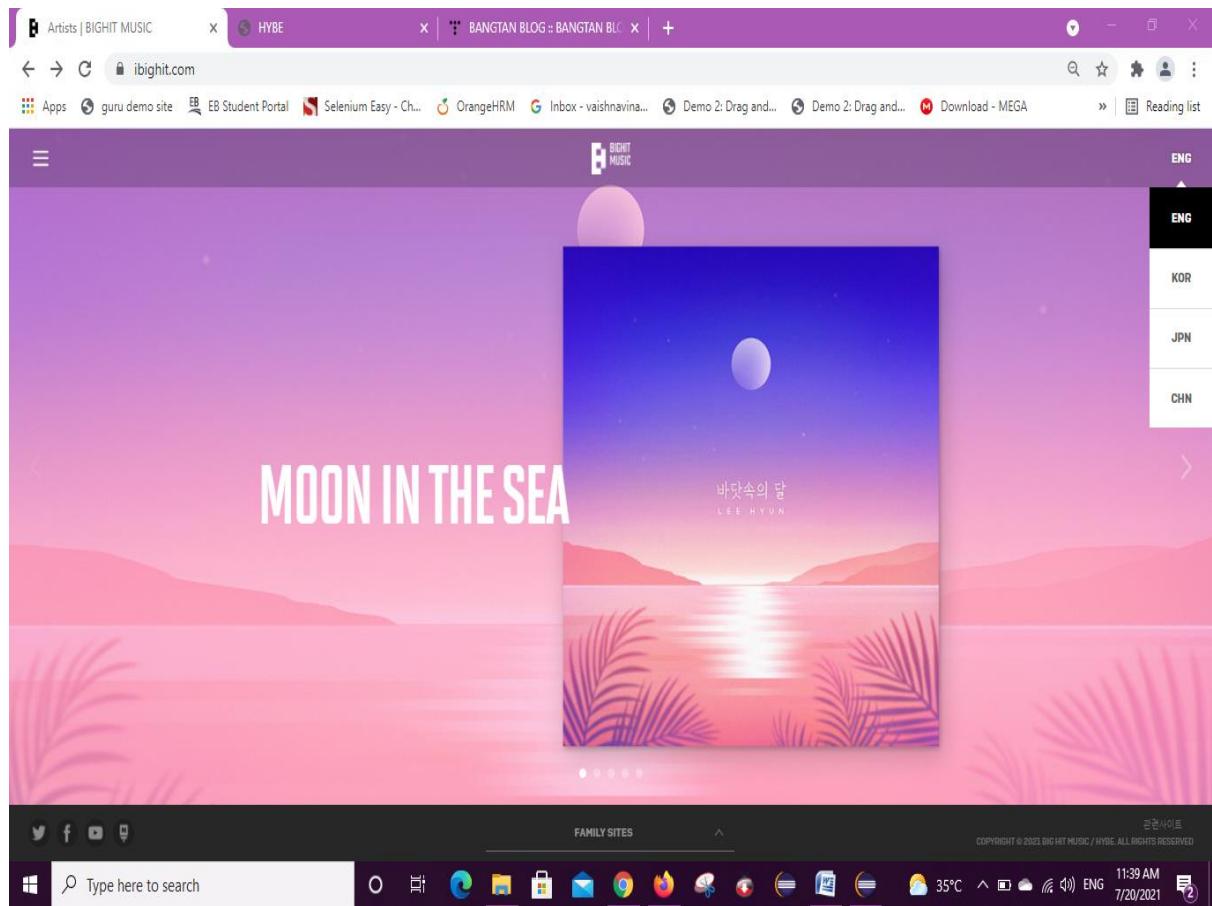
TC60: To check the click functionality of menu button's FLO PAGE's song play button



TC61: To check the click functionality of menu button's melon page (MELON TV OPTION)



UNDER DEVELOPMENT (ERRORS)



Error Identification-> Declaration

- Language option works only once.
- It cannot be performed twice.
- In this case, the whole page needs to be loaded again.

Solution (TENTATIVE)

- Validation for the language bar should be done.
- Website Loading should be taken care-off.