

# Software Engineering and Testing. BSC Year 2, 2024/2025

## **Assessment 4: Software Testing**

Submitted by:

B00160049 Matthew Keenan

B00159340 Stanislav Kolev

B0016388 Fabio Melilo

Submission date 24/3/25

#### **Declaration**

I herby certify that this material, which I now submit for assessment on the programme of study leading to the award of Ordinary Degree in Computing in the Institute of Technology Blanchardstown, is entirely my own work except where otherwise stated.

Author: B00160049 Matthew Keenan Dated: 24/4/25

Author: **B00159340 Stanislav Kolev** Dated: 24/4/25

Author: **B0016388 Fabio Melilo** Dated: 24/4/25

## **Unit Testing**

## User (getter/setters)

In user class test we take the getUsername and setUsername methods by creating an array of usernames and then in a for each loop creating a new user and setting their username as the same spot in the array

```
| SoftwareEng ClientSide Project | P
```

And we show it working in the browser like this:

#### **User Test: Username Getters/Setters**



#### **Movie**

For the movie test the method fetchAllMovies and this is done by connecting to the database checks if the data is received and then they are displayed

```
c?php require "../Project Source/public/template/header.php"; ?>

chl>Movie Test: FetchAll Method</hl>
c?php
require_once "./classes/movieClass.php";

require_once "./src/D&connect.php";

smovies = movieClass::fetchAllMovies($connection);

if(empty($movies)){
    echo "Failed to find Movies";

}

else{
    foreach($movies as $movie){
        echo "".$movie->getTitle()."";
        echo "".$movie->getTitle()."";
        echo "".$movie->getTicketPrice()."";
        echo "".$movie->getTicketPrice()."";
}

c?php require "../Project Source/public/template/footer.php";
```

## **Booking**

This a similar test to the user test but instead of testing the username we're testing the card number

```
c?php require "../Project Source/public/template/header.php"; ?>

chl>Booking Test: Card Getters</hl>
chl>Booking Test: Card Getters</hr>
foreach($cards as $cardNo){
    $booking = new bookingClass.php";

foreach($cards as $cardNo){
    $booking = new bookingClass(1,"2025-05-05","AS","Matthew",$cardNo,"D15DC1","123",10,1);
    if($booking->getCardNo() == $cardNo){
        echo "sp>Card Number: ".$booking->getCardNo()."
chl>Card Test Unsuccessful: 
}

chl>Booking = new bookingClass(1,"2025-05-05","AS","Matthew",$cardNo,"D15DC1","123",10,1);
    if($booking->getCardNo()."
chl>Card Test Unsuccessful: 
}

chl>Booking = new bookingClass.php";

chl>Card Test Unsuccessful: 
chl>Card Test
```



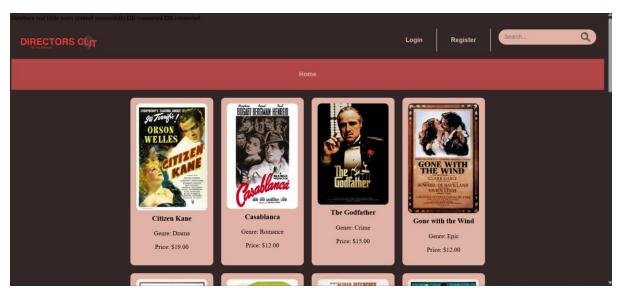
# **UI Testing**

# Consistency

The same design across all pages.

Consistency is shown on the website has the same colour and style throughout the website and the navbar styling is consistent throughout.

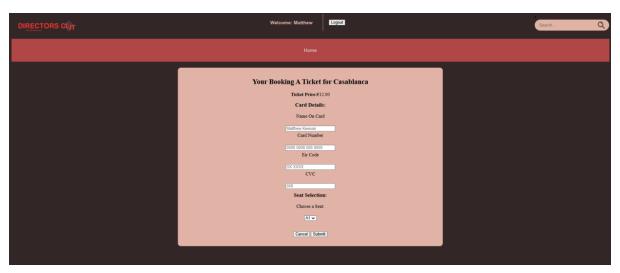
# Index Page



# **Products Page**



# **Booking Page**

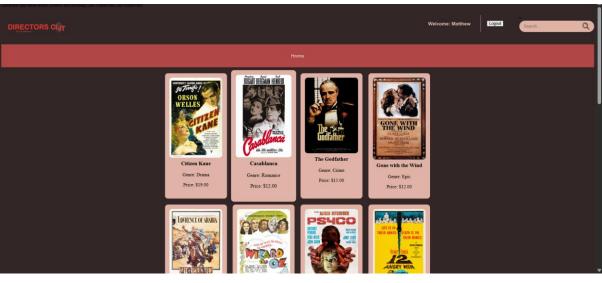


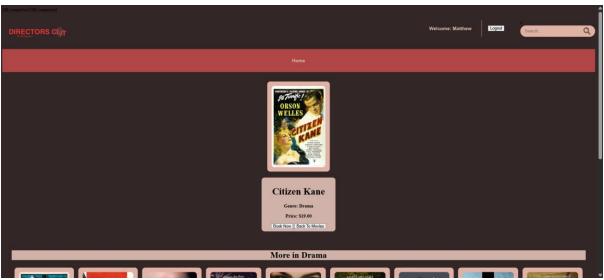
## **Minimal Clicks**

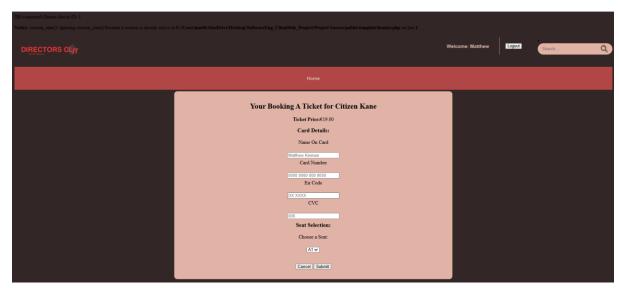
Keeping the clicks required to complete the main function of the website e.g. booking a ticket or writing a review

Booking takes five clicks as you must login, confirm, pick movie, click book, and click purchase.





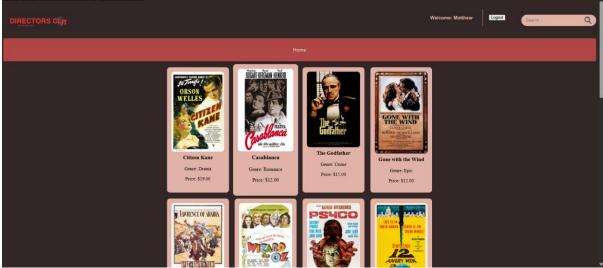


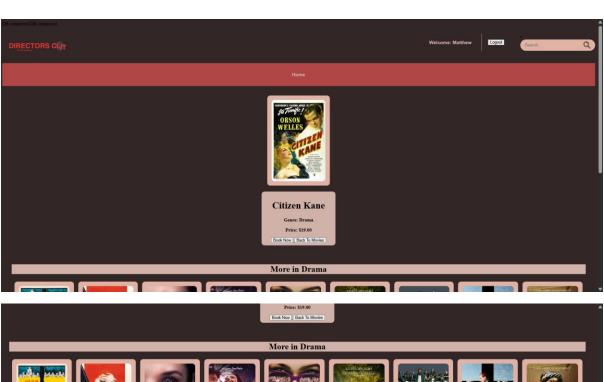


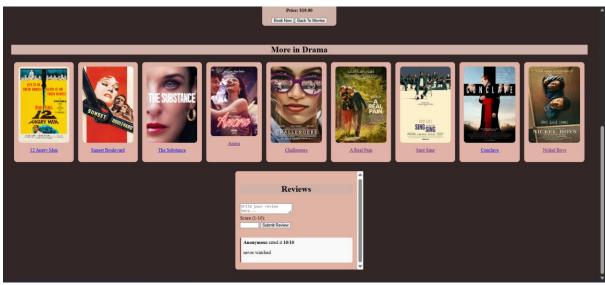
DIRECTORS CLIT		Welcome: Matthew	Logout	Search	Q
	Home				
	Your Booking				

Were as making a review only takes four clicks as the reviews can be made on the product page





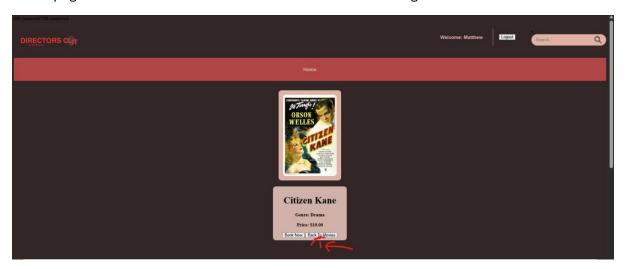


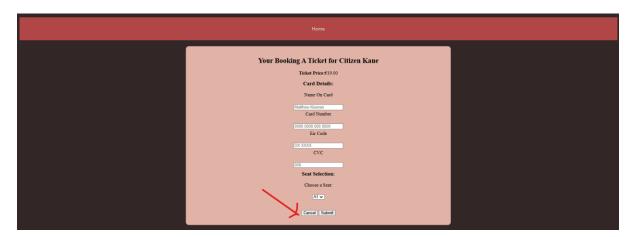


### Recoverability

Being able to undue mistakes made on the website e.g. going back to a previous page.

On the website recoverability is shown by each page's ability to go back to the home page for the movie page it's the back to movies button and cancel for booking.





#### Guidance

The UI design assists users in how to use the website e.g. instructions displayed throughout on buttons like submit, back to home etc

The website uses guidance as the movies are front and centre on the main page and on the product page there are buttons to indicate that you should go back to movies or book a movie and a large banner showing more movie options

On The Booking page it guides the user by having placeholder to show what inputs expected as well as a submit button to tell the user what to do once the forms filled out



Citizen Kane

Genre: Drama

Price: \$19.00



Casablanca

Genre: Romance

Price: \$12.00



The Godfather

Genre: Crime

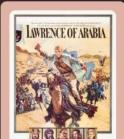
Price: \$15.00



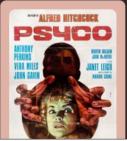
Gone with the Wind

Genre: Epic

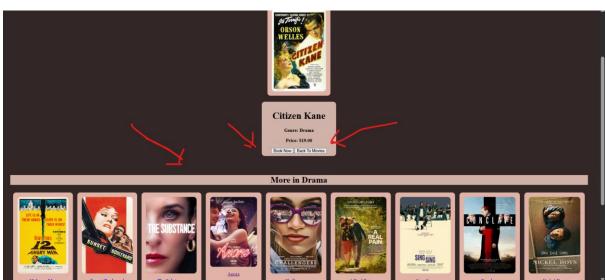
Price: \$12.00

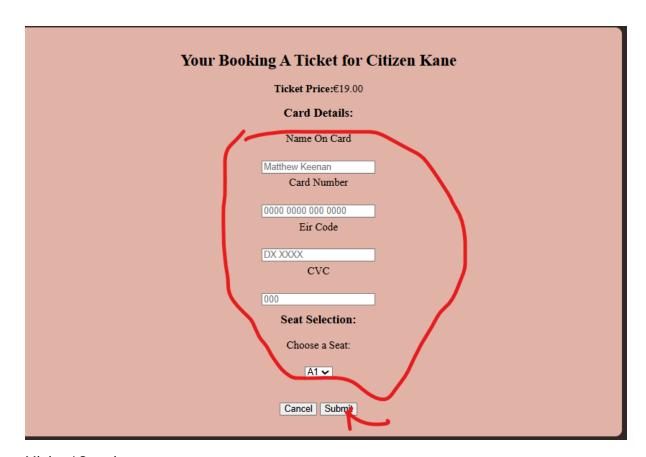








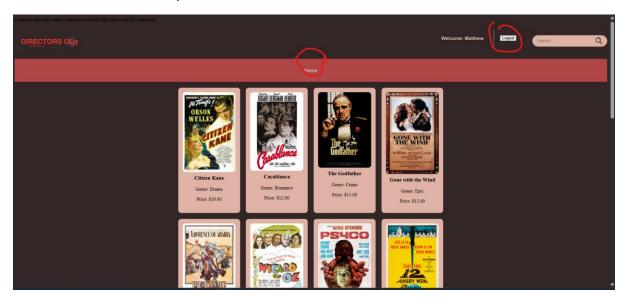




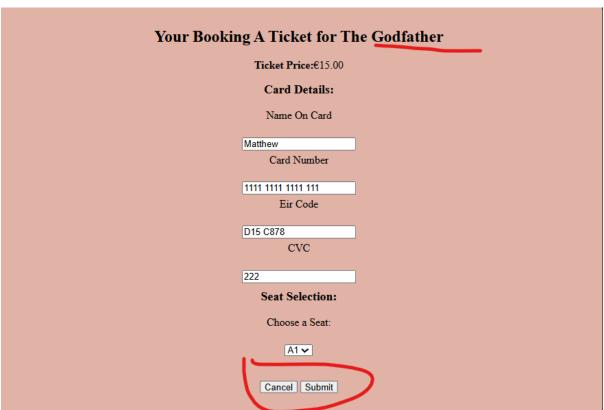
### Minimal Surprise

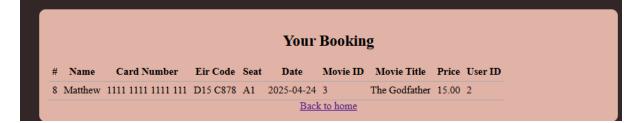
The user interface must not surprise the user. Everything should be as shown e.g a booking button under the godfather should bring the user to a booking ticket for the godfather and not another movie

The website uses minimal surprise as every input and button does exactly what is stated for example the back to movies button brings you back to the main page and submit buttons submit the forms users' input.









## Validation Testing

This validation test uses the ContentModerator classes to filter a select of words if they appear in the inputted text.

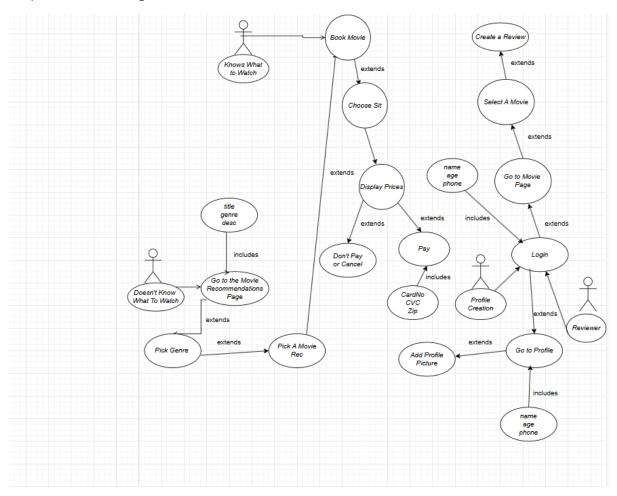
#### **Test Content Moderation**

fuck	
Filter	

#### **Test Content Moderation**

put:	

# Requirements Testing



# Case 1: Reviewer

Login- Completed

Movie Page- Completed

Select A Movie- Completed

Create A Review- Completed

## **Case 2: Knows What to Watch**

Books a movie – completed

Chooses seat- completed

Display price- completed

Pay/cancel- completed

### Case 3: Doesn't Know What to Watch

Movie recommendation page- completed

Pick a genre- completed its based on search no though

Pick a movie- completed

Books a movie – completed

Chooses seat- completed

Display price- completed

Pay/cancel- completed