

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

**Assessment 4: Software Testing**

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**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

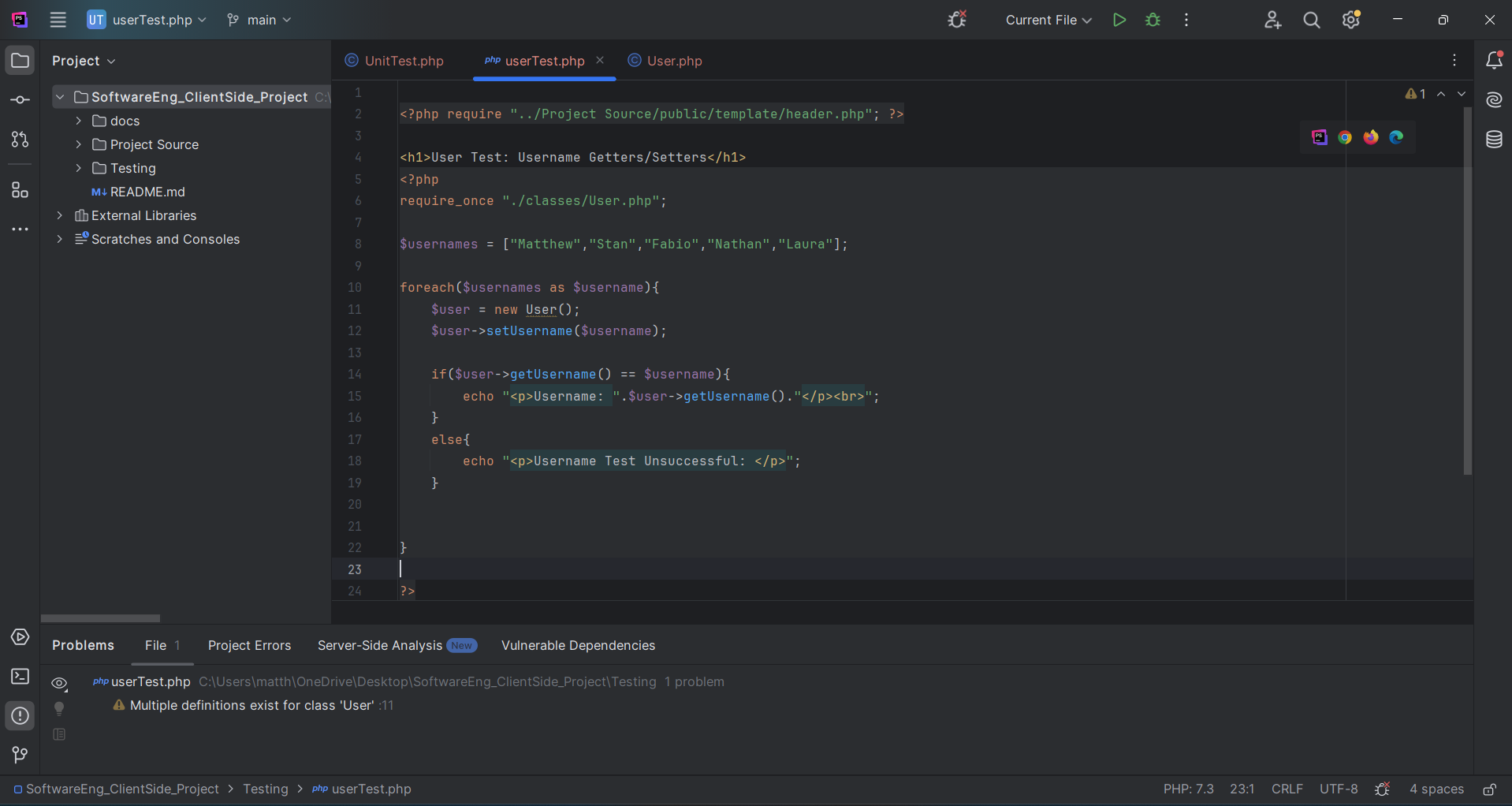
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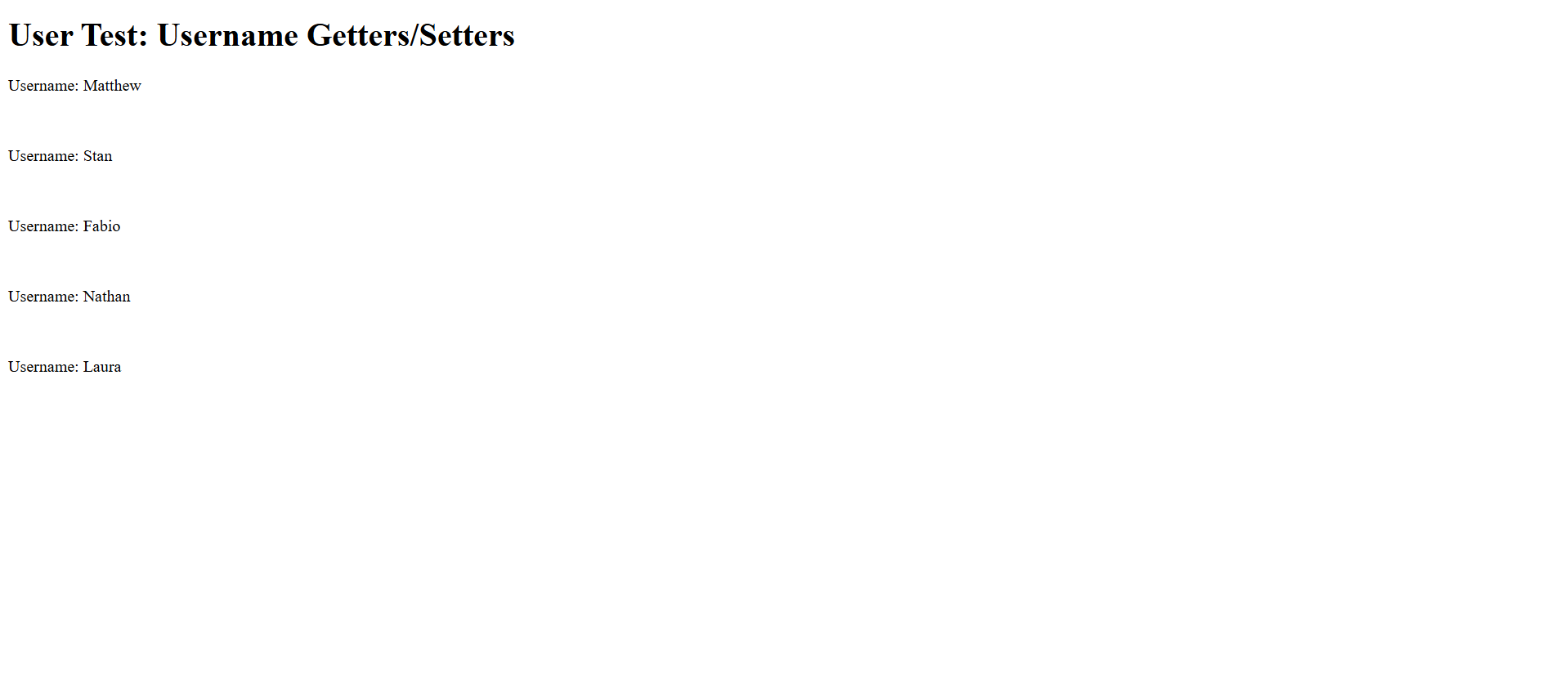
Unit Testing

**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



And we show it working in the browser like this:



**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

A screen shot of a computer

AI-generated content may be incorrect.

A black square with white text

AI-generated content may be incorrect.

**Booking**

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

**A screenshot of a computer program

AI-generated content may be incorrect.**

A black square with white text

AI-generated content may be incorrect.

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

A screenshot of a movie poster

AI-generated content may be incorrect.

Products Page

A screenshot of a computer

AI-generated content may be incorrect.

Booking Page

A screenshot of a computer

AI-generated content may be incorrect.

**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.

A screenshot of a computer

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**A screenshot of a movie poster

AI-generated content may be incorrect.**

A screen shot of a movie

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

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

A screenshot of a computer

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**A screenshot of a movie poster

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A screen shot of a movie

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A screenshot of a movie

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**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.

**A screenshot of a book

AI-generated content may be incorrect.**

A screenshot of a computer

AI-generated content may be incorrect.

**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

A movie posters on a pink background

AI-generated content may be incorrect.

A screenshot of a book

AI-generated content may be incorrect.

A screen shot of a ticket

AI-generated content may be incorrect.

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.

A screenshot of a movie poster

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A screenshot of a computer

AI-generated content may be incorrect.

A screen shot of a ticket

AI-generated content may be incorrect.

A screen shot of a ticket

AI-generated content may be incorrect.

Validation Testing

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

A screenshot of a computer

AI-generated content may be incorrect.

A white background with black and white clouds

AI-generated content may be incorrect.

A white background with black and white clouds

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Requirements Testing

A diagram of a company

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**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