

Automated Testing Practical Exercise

1 Background

Total Coding Ltd is a software development company that produces various business platforms for different geographic areas and business activities. Its most well-established platform involves live sports betting and casino games.

The platforms are created using Microsoft technologies including C#, ASP.Net Core v2 and higher, Sql Server 2016 and Angular v7.

The exercise involves producing an automated test that can be repeated as part of a comprehensive regression testing policy.

It relates to a test customer portal that allows new users to register as players on the system. The automated test will simply run through the new player registration form to register a new customer. Instructions are provided below to clarify the registration process, although most of it should be intuitive to the average user.

2 Exercise Requirements

The deliverable from this exercise will be an automated test package using the following tools.

- A solution created using Visual Studio 2017 or greater.
- C# version 7 or greater
- Selenium Webdriver
- NUnit

3 Exercise Instructions

The following procedure acts as a guide through the registration process using both screen shots and written instructions. It is recommended to run through this procedure several times manually with whichever developer tools are available, to get an adequate understanding of the process and the underlying page and navigation structure.

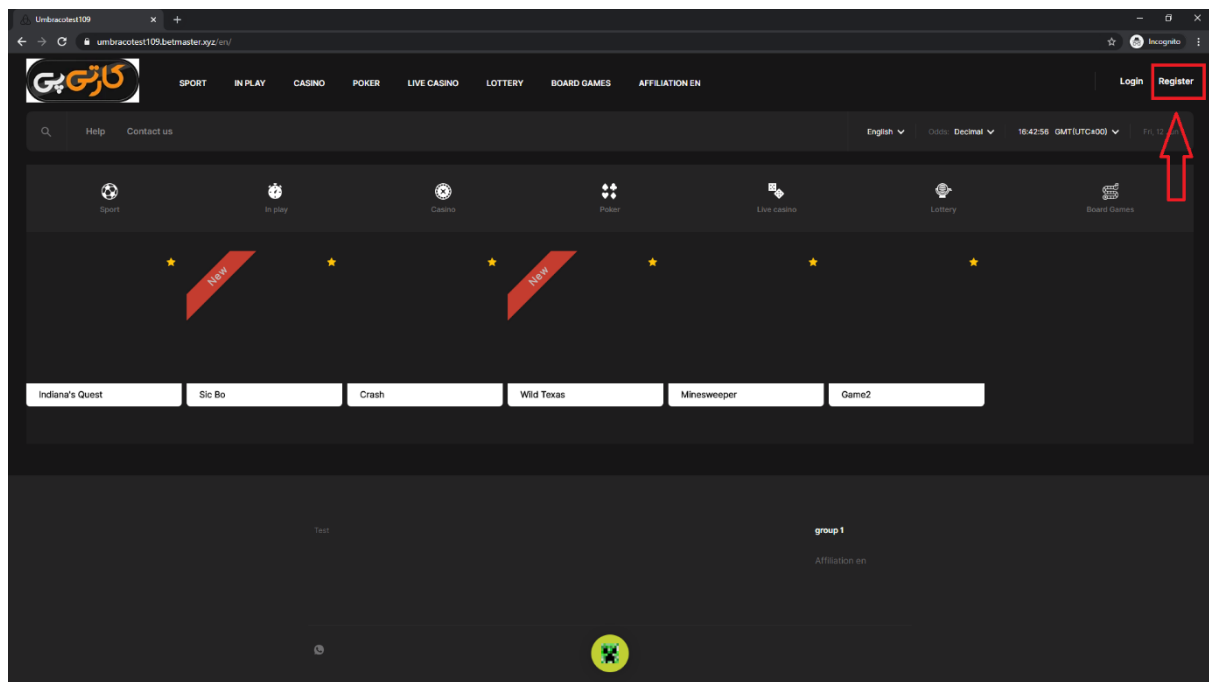
3.1 Setup Registration Process

The test customer portal can be found at the URL below.

<https://umbracotest109.betmaster.xyz/en/>

When loaded, the display should appear as the screen shot below.

Click on the Registration link at the top right hand corner, as indicated.



3.2 Registration Step 1

Once the Registration link is clicked, the first stage input form is displayed, as shown below.

A screenshot of the 'Registration Step 1 of 4' form. The form is titled 'Registration' and 'Step 1 of 4'. It contains a 'Phone Number *' field with a 'Country Selector' dropdown menu showing '+44' and a 'Mobile Number' input field containing '555-5555'. A large yellow 'Continue' button is positioned below the input fields. At the bottom of the form, there is a text prompt: 'Enter your mobile phone number and we will send you a verification code' and a link: 'Already have an account?'. The form is set against a dark background with a close button (X) in the top right corner.

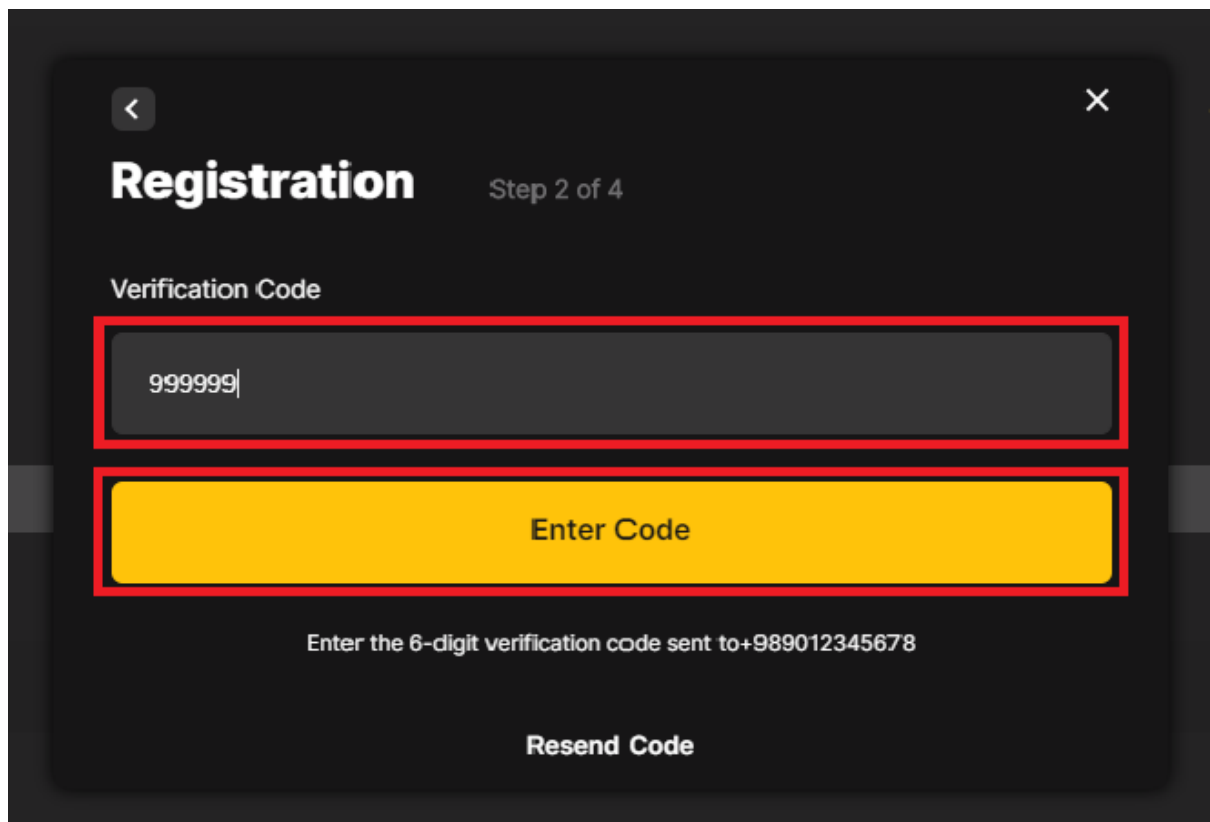
Click on the area marked Country Selector and click on the '+98' option.

Then enter a mobile number into the area marked Mobile Number field. In order to be accepted, it must satisfy the regex template `^(\+98|0)?09|9\d{9}$`. Note that you can invent any number for testing purposes.

Click on the Continue button to move to Step 2.

3.3 Registration Step 2

The second Registration input form will now be shown, at which point the new user would be expected to enter the verification code sent to their mobile phone.

The screenshot shows a dark-themed mobile application interface for the 'Registration' process, specifically 'Step 2 of 4'. At the top left is a back arrow icon, and at the top right is a close 'X' icon. The title 'Registration' is in large white font, with 'Step 2 of 4' in smaller white font to its right. Below the title, the label 'Verification Code' is in white. Underneath is a dark gray input field containing the text '999999|', where the vertical bar indicates the cursor position. Below the input field is a prominent yellow button with the text 'Enter Code' in black. At the bottom of the form, there is a line of white text that reads 'Enter the 6-digit verification code sent to +989012345678'. Below this text is another white button labeled 'Resend Code'. The entire form is enclosed in a dark gray rounded rectangle with a thin red border.

Since this is a test system, the number 999999 can be input into the Verification Code field, as shown above.

Click on the Enter Code button to proceed to Step 3.

3.4 Registration Step 3

At this point, the third Registration input form will now be shown, at which point the new user would be expected to enter their remaining contact details.

Registration

Step 3 of 4

Email *

johndoe@email.com

Password *

Confirm Password

Last Name *

Doe

Username *

johndoe

Gender

Preferences

Currency

Language

ریال Iranian Rial

فارسی

☐ Receive Notifications

☐ Receive Notifications via In-Platform

☐ I agree with the **terms and conditions** *

☐ I am at least 18 years old *

Finish

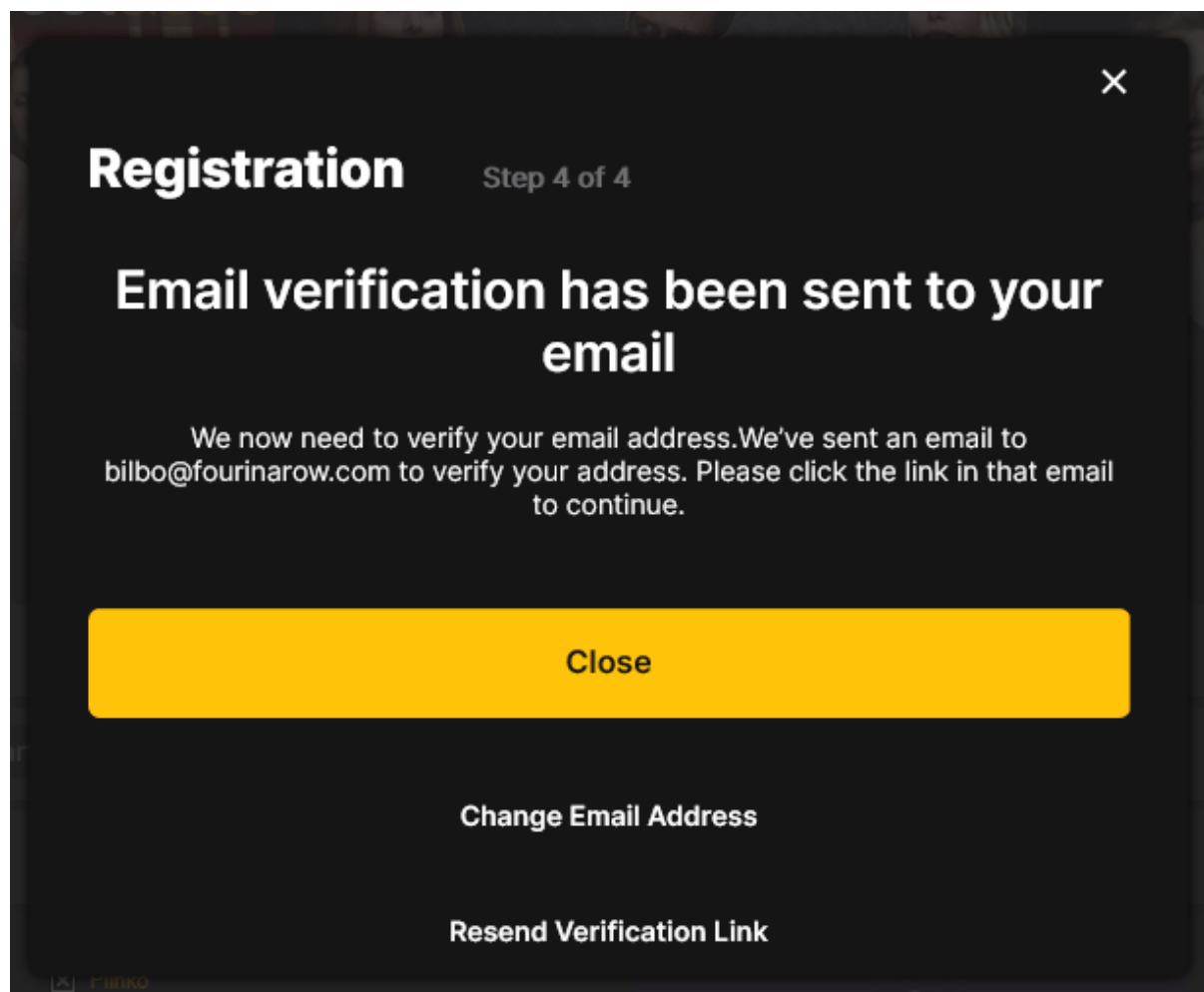
The following information should be entered into the respective fields.

- Email: any valid email address, i.e. containing one @ symbol and at least one . symbol. You may invent any email address for the purpose, although the system will attempt to send a verification email to it.
- Password: any sequence of upper and lower case letters and numbers of at least 8 characters in length.
- Confirm Password: must match with the value entered in the Password field above.
- Last Name: enter any character string
- Username: enter any character string
- Gender: ignore this field
- Currency: click on this to select the preferred currency (select Toman)
- Language: click on this to select the preferred language (select English)
- Receive Notifications: click on this to set it.
- Receive Notifications via In-Platform: click on this to set it.
- I agree with the terms and conditions: click on this to set it.
- I am at least 18 years old: click on this to set it.

Finally, click on the Finish button to proceed to the final Registration step.

3.5 Registration Step 4

At the final stage of customer registration, the following notification is displayed.



The text 'Email verification has been sent to your email' must be checked to confirm that the Registration process has been completed successfully.