

International School

**Capstone Project 2**

CMU-SE 451

**Test Case**

**Craft Village Pollution Monitor System**

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**PROJECT INFORMATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project acronym** | CVPMS | | |
| **Project Title** | Craft Village Pollution Monitor System | | |
| **Start Date** | 01/03/2023 | **End Date** | 15/05/2023 |
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| **Project Web URL** | [*https://github.com/Casca113s2/craft-village-pollution-monitor-system*](https://github.com/Casca113s2/craft-village-pollution-monitor-system) | | |
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# Integration Testing

## Sprint 1

**Table 1.** Login on Website

| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| --- | --- | --- | --- | --- | --- | --- |
| TC01 | Declare empty password | 1. Enter the correct username 2. Leave the password blank 3. Click the "Đăng nhập" button | Display Error Message "User không tồn tại" | Display Error Message "User không tồn tại" | Pass | 12/03/2023 |
| TC02 | Declare empty username | 1. Leave the username blank 2. Enter the correct password 3. Click the "Đăng nhập" button | Display Error Message "User không tồn tại" | Display Error Message "User không tồn tại" | Pass | 12/03/2023 |
| TC03 | Declare empty username & password | 1. Leave username blank 2. Leave password blank 3. Click the "Đăng nhập" button | Display Error Message "User không tồn tại" | Display Error Message "User không tồn tại" | Pass | 12/03/2023 |
| TC04 | Declare wrong password | 1. Enter the correct username 2. Enter the wrong password 3. Click the "Đăng nhập" button | Display Error Message "Sai mật khẩu" | Display Error Message "Sai mật khẩu" | Pass | 12/03/2023 |
| TC05 | Declare unregistered username | 1. Enter the unregistered username 2. Enter the password 3. Click the "Đăng nhập" button | Display Error Message "User không tồn tại" | Display Error Message "User không tồn tại" | Pass | 12/03/2023 |
| TC06 | Declare incorrect username | 1. Enter the incorrect username format 2. Enter the password 3. Click the "Đăng nhập" button | Display Error Message "User không tồn tại" | Display Error Message "User không tồn tại" | Pass | 12/03/2023 |
| TC07 | Declare username & password with a space | 1. Enter a space in the username 2. Enter a space in the password 3. Click the "Đăng nhập" button | Display Error Message "User không tồn tại" | Display Error Message "User không tồn tại" | Pass | 12/03/2023 |
| TC08 | Declare password in an incorrect format | 1. Enter the correct username 2. Enter the password in an incorrect format 3. Click the "Đăng nhập" button | Display Error Message "Sai mật khẩu" | Display Error Message "Sai mật khẩu" | Pass | 12/03/2023 |
| TC09 | Check login page success | 1. Enter the correct username 2. Enter the correct password 3. Click the "Đăng nhập" button | Redirect to homepage according to user's role | Redirect to homepage according to user's role | Pass | 12/03/2023 |
| TC10 | Declare the deleted username | 1. Enter the deleted username 2. Enter the password 3. Click the "Đăng nhập" button | Display Error Message "User không tồn tại" | Display Error Message "User không tồn tại" | Pass | 12/03/2023 |
| TC11 | Check forget password | Click on "Quên mật khẩu?" | Switch to Forget Password Page | Switch to Forget Password Page | Pass | 12/03/2023 |
| TC12 | Check register page | Click on "Đăng ký tại đây!" | Switch to Register Page | Switch to Register Page | Pass | 12/03/2023 |

**Table 2.** *Register on Website*

| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| --- | --- | --- | --- | --- | --- | --- |
| TC01 | Check register success | 1. Enter correct username 2. Enter password 3.Re-enter password 4. Enter phone number 5. Enter email address 6. Click on "Gửi mã" button 7. Enter the code received from email 8. Click on "Đăng ký" button | Registed a new account to database | Registed a new account to database | Pass | 12/03/2023 |
| TC02 | Declare invalid username | 1. Enter invalid username 2. Enter password 3.Re-enter password 4. Enter phone number 5. Enter email address 6. Click on "Gửi mã" button 7. Enter the code received from email 8. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC03 | Declare empty username | 1. Leave username blank 2. Enter password 3.Re-enter password 4. Enter phone number 5. Enter email address 6. Click on "Gửi mã" button 7. Enter the code received from email 8. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC04 | Check register | 1. Enter username with a space 2. Enter password 3.Re-enter password 4. Enter phone number 5. Enter email address 6. Click on "Gửi mã" button 7. Enter the code received from email 8. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC05 | Declare empty password | 1. Enter correct username  2. Leave password blank 3.Re-enter password 4. Enter phone number 5. Enter email address 6. Click on "Gửi mã" button 7. Enter the code received from email 8. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC06 | Declare empty re-enter password | 1. Enter correct username 2. Enter password 3. Leave the box to re-enter password blank 4. Enter phone number 5. Enter email address 6. Click on "Gửi mã" button 7. Enter the code received from email 8. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC07 | Declare empty re-enter password & invalid email address | 1. Enter correct username 2. Enter password 3. Leave the box to re-enter password blank 4. Enter phone number 5. Enter invalid email address 6. Click on "Gửi mã" button 7. Enter the code received from email 8. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC08 | Declare any code | 1. Enter correct username 2. Enter password 3.Re-enter password 4. Enter phone number 5. Enter email address 6. Enter any code  7. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC09 | Declare empty code | 1. Enter correct username 2. Enter password 3.Re-enter password 4. Enter phone number 5. Enter email address 6. Click on "Gửi mã" button 7. Leave the box to code blank 8. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC10 | Check register | 1. Enter correct username 2. Enter password 3.Re-enter password 4. Enter phone number 5. Leave email address blank 6. Click on "Gửi mã" button 7. Leave the box to code blank 8. Click on "Đăng ký" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 12/03/2023 |
| TC11 | Check switch to Login Page | Click on "Trở lại trang đăng nhập" | Switch to Login Page | Switch to Login Page | Pass | 12/03/2023 |

**Table 3.** Change Language Mobile

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | Check Languge Change | 1. Click on "VIE"  2. Select "ENG" | Change application language to English | Change application language to English | Pass | 12/03/2023 |

**Table 4.** Change Password on Website

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | Check Change Password Page success | 1. Enter current password 2. Enter new password 3. Enter confirmed password 4. Click on Save button | Change password and redirect to homepage | Change password and redirect to homepage | Pass | 12/03/2023 |
| TC02 | Declare wrong current password | 1. Enter wrong current password 2. Enter new password 3. Enter confirmed password 4. Click on Save button | Display Error Message "Wrong password!" | Display Error Message "Wrong password!" | Pass | 12/03/2023 |
| TC03 | Declare empty current password | 1. Leave the box to current password blank 2. Enter new password 3. Enter confirmed password 4. Click on Save button | Display Error Message "Empty field!" | Display Error Message "Empty field!" | Pass | 12/03/2023 |
| TC04 | Declare empty new password | 1. Enter current password 2. Leave the box to new password blank 3. Enter confirmed password 4. Click on Save button | Display Error Message "Empty field!" | Display Error Message "Empty field!" | Pass | 12/03/2023 |
| TC05 | Declare empty confirmed password | 1. Enter current password 2. Enter new password 3. Leave the box to confirmed password blank 4. Click on Save button | Display Error Message "Empty field!" | Display Error Message "Empty field!" | Pass | 12/03/2023 |
| TC06 | Declare wrong confirmed password | 1. Enter current password 2. Enter new password 3. Enter wrong confirmed password 4. Click on Save button | Display Error Message "Confirmed password incorrect!" | Display Error Message "Confirmed password incorrect!" | Pass | 12/03/2023 |
| TC07 | Cancel password change | 1. Enter current password 2. Enter new password 3. Enter confirmed password 4. Click on Cancel button | Redirect to homepage | Redirect to homepage | Pass | 12/03/2023 |

**Table 5.** Forget Password on Website

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | Check forget password page success | 1. Enter the registered username 2. Enter the registered email address 3. Click Reset button | Change password and redirect to login page | Change password and redirect to login page | Pass | 12/03/2023 |
| TC02 | Declare wrong registered username | 1. Enter the wrong registered username 2. Enter the registered email address 3. Click Reset button | Display Error Message "Xử lý thất bại, vui lòng kiểm tra lại tên đăng nhập" | Display Error Message "Xử lý thất bại, vui lòng kiểm tra lại tên đăng nhập" | Pass | 12/03/2023 |
| TC03 | Declare wrong registered email address | 1. Enter the registered username 2. Enter the wrong registered email address 3. Click Reset button | Display Error Message "Xử lý thất bại, vui lòng kiểm tra lại email" | Display Error Message "Xử lý thất bại, vui lòng kiểm tra lại email" | Pass | 12/03/2023 |
| TC04 | Declare wrong registered username and email address | 1. Enter the wrong registered username 2. Enter the wrong registered email address 3. Click Reset button | Display Error Message "Xử lý thất bại, vui lòng kiểm tra lại tên đăng nhập" | Display Error Message "Xử lý thất bại, vui lòng kiểm tra lại tên đăng nhập" | Pass | 12/03/2023 |
| TC05 | Check switch to Login Page | Click on "Trở lại trang đăng nhập" | Redirect to login | Redirect to login | Pass | 12/03/2023 |

## Sprint 2

**Table 6.** Add New Authority on Website

| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| --- | --- | --- | --- | --- | --- | --- |
| TC01 | Check create new authority success | 1. Select Province/City 2. Select District 3. Enter name of Organization 4. Enter correct email address 5.Enter correct phone number 6. Click on "Create" button | Create a new user | Create a new user | Pass | 27/03/2023 |
| TC02 | Declare empty Province/City | 1.Unselect Province/City 2. Select District 3. Enter name of Organization 4. Enter correct email address 5.Enter correct phone number 6. Click on "Create" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC03 | Declare empty Province/City and District | 1. Unselect Province/City 2. Unselect District 3. Enter name of Organization 4. Enter correct email address 5.Enter correct phone number 6. Click on "Create" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC04 | Declare name of Organization with special characters | 1. Select Province/City 2. Select District 3. Enter the name of Organization with special characters 4. Enter correct username 5. Enter correct password 6. Enter correct phone number 7. Enter correct email address 8. Click on "Create" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC05 | Declare empty phone number | 1. Select Province/City 2. Select District 3. Enter name of Organization 4. Enter correct username 5. Enter correct password 6. Leave phone number blank 7. Enter correct email address 8. Click on "Create" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC06 | Declare empty email address | 1. Select Province/City 2. Select District 3. Enter name of Organization 4. Enter correct username 5. Enter correct password 6. Enter correct phone number 7. Leave email address blank 8. Click on "Create" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC07 | Declare invalid phone number | 1. Select Province/City 2. Select District 3. Enter name of Organization 4. Enter correct username 5. Enter correct password 6. Enter correct phone number 7. Enter invalid email address 8. Click on "Create" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |

**Table 7.** *Report Form on Website*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | Check Report Form success | 1. Enter the type of error you get 2. Enter details about that type of error 3. Click on "Gửi" | A success dialog box appears | A success dialog box appears | Pass | 27/03/2023 |
| TC02 | Enter the missing information about the error type | 1. Leave the error type blank 2. Enter details about that type of error 3. Click on "Gửi" | A dialog box informing that you have entered missing information appears | Nothing changes | Fail | 27/03/2023 |
| TC03 | Do not enter detailed error description | 1. Enter the type of error you get 2. Leave error details blank 3. Click on "Gửi" | A dialog box informing that you have entered missing information appears | Nothing changes | Fail | 27/03/2023 |
| TC04 | Leave all information blank | 1. Leave the error type blank 2. Leave error details blank 3. Click on "Gửi" | A dialog box informing that you have entered missing information appears | Nothing changes | Fail | 27/03/2023 |
| TC05 | Close the completed form | 1. Enter the type of error you get 2. Enter details about that type of error 3. Click on button "X" | Filled information is still there when the Report button is pressed | Filled information is still there when the Report button is pressed | Pass | 27/03/2023 |

**Table 8.** *Accept Decline New Village on Website*

| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| --- | --- | --- | --- | --- | --- | --- |
| TC01 | Check Accept new village success | Click on "✓" button | Accept new village | Accept new village | Pass | 27/03/2023 |
| TC02 | Check Decline new village success | Click on "X" button | Decline new village | Decline new village | Pass | 27/03/2023 |
| TC03 | Check Create a new village success | 1. Select Ward 2. Enter the name of craft village 3. Enter the longtitude 4. Enter the latitude 5. Enter the description about craft village 6. Click on "Tạo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC04 | Declare empty ward | 1. Unselect Ward 2. Enter the name of craft village 3. Enter the longtitude 4. Enter the latitude 5. Enter the description about craft village 6. Click on "Tạo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC05 | Declare name of craft village with special character | 1. Select Ward 2. Enter the name of craft village with special characters 3. Enter the longtitude 4. Enter the latitude 5. Enter the description about craft village 6. Click on "Tạo" button | Create a new village to database | Create a new village to database | Pass | 27/03/2023 |
| TC06 | Declare invalid longtitude | 1. Select Ward 2. Enter the name of craft village 3. Enter the invalid longtitude 4. Enter the latitude 5. Enter the description about craft village 6. Click on "Tạo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC07 | Declare invalid latitude | 1. Select Ward 2. Enter the name of craft village 3. Enter the longtitude 4. Enter the invalid latitude 5. Enter the description about craft village 6. Click on "Tạo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC08 | Declare empty description about craft village | 1. Select Ward 2. Enter the name of craft village 3. Enter the longtitude 4. Enter the latitude 5. Leave the description about craft village blank 6. Click on "Tạo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC09 | Declare empty name of craft village | 1. Select Ward 2. Leave the box to the name of craft village blank 3. Enter the longtitude 4. Enter the latitude 5. Enter the description about craft village 6. Click on "Tạo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |

**Table 9.** *Declare Household Survey Form on Website*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | Fill full the information | 1. Click on "Thông tin sản xuất" 2. Fill full the information 3. Click on "Khai báo" | A dialog box informing that the request has been sent will appear | A dialog box informing that the request has been sent will appear | Pass | 27/03/2023 |
| TC02 | Declare empty information | 1. Click on "Thông tin sản xuất" 2. Leave all information blank 3. Click on "Khai báo" | The control will focus on the question which is required | The control will focus on the question which is required | Pass | 27/03/2023 |
| TC03 | Only declare required fields | 1. Click on "Thông tin sản xuất" 2. Leave all information blank 3. Click on "Khai báo" | A dialog box informing that the request has been sent will appear | A dialog box informing that the request has been sent will appear | Pass | 27/03/2023 |
| TC04 | Click on "Refresh" button to refresh the information you just entered | 1. Click on "Thông tin sản xuất" 2. Fill full the information 3. Click on "Làm mới" | The declaration form is refreshed | Nothing Change | Fail | 27/03/2023 |
| TC05 | Close the form and then reopen it but still have the information you just filled in | 1. Click on "Thông tin sản xuất" to open 2. Fill full the information 3. Click on "Thông tin sản xuất" to close 4. Click on "Thông tin sản xuất" to reopen | The information you just filled in is still there | The information you just filled in is still there | Pass | 27/03/2023 |
| TC06 | Declare negative parameters | 1. Click on "Thông tin sản xuất" 2. Enter negative parameters 3. Click on "Khai báo" | The message dialog box asks to fill in the correct format | A dialog box informing that the request has been sent will appear | Fail | 27/03/2023 |
| TC07 | Declare a percentage greater than 100 | 1. Click on "Thông tin sản xuất" 2. Enter a number greater than 100% in the percent field 3. Click on "Khai báo" | The message dialog box asks to fill in the correct format | A dialog box informing that the request has been sent will appear | Fail | 27/03/2023 |

**Table 10.** *Declare Household Survey*

| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| --- | --- | --- | --- | --- | --- | --- |
| TC01 | Check survey page success | 1.Select Province/City 2. Select District 3. Select Ward 4. Select Village 5. Click on "Khai báo" button | Enter new data to database | Enter new data to database | Pass | 27/03/2023 |
| TC02 | Declare empty Province/City | 1.Unselect Province/City 2. Select District 3. Select Ward 4. Select Village 5. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC03 | Declare empty Province/City & District | 1.Unselect Province/City 2. Unselect District 3. Select Ward 4. Select Village 5. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC04 | Declare empty Province/City, District & Ward | 1. Unelect Province/City 2. Unselect District 3. Unselect Ward 4. Select Village 5. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC05 | Declare empty Province/City, District, Ward & Village | 1. Unselect Province/City 2. Unselect District 3. Unselect Ward 4. Unselect Village 5. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC06 | Declare a new village success | 1.Select Province/City 2. Select District 3. Select Ward 4. Enter the latitude 5. Enter the longtitude 6. Enter the name of village 7. Enter the description about craft village 8. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC07 | Declare invalid latitude | 1. Select Province/City 2. Select District 3. Select Ward 4. Enter the invalid latitude 5. Enter the longtitude 6. Enter the name of village 7. Enter the description about craft village 8. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC08 | Declare invalid longtitude | 1.Select Province/City 2. Select District 3. Select Ward 4. Enter the latitude 5. Enter the invalid longtitude 6. Enter the name of village 7. Enter the description about craft village 8. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC09 | Declare the name of village with special characters | 1.Select Province/City 2. Select District 3. Select Ward 4. Enter the latitude 5. Enter the longtitude 6. Enter the name of village with special characters 7. Enter the description about craft village 8. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |
| TC10 | Declare empty description about craft village | 1.Select Province/City 2. Select District 3. Select Ward 4. Enter the latitude 5. Enter the longtitude 6. Enter the name of village 7. Leave the box to the description about craft village blank 8. Click on "Khai báo" button | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Display Error Message "Vui lòng nhập đầy đủ thông tin!" | Pass | 27/03/2023 |

**Table 11.** *Dashboard on Website*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | When a marker is clicked, the information is displayed | Click the marker on the map | Display information about that craft village | Display information about that craft village | Pass | 27/03/2023 |
| TC02 | Display craft villages by pollution type | Click on a pollution type in the filter section | Indicate craft villages that belong to that type of pollution | Indicate craft villages that belong to that type of pollution | Pass | 27/03/2023 |
| TC03 | View surveys about craft village | Click button " < " or " > " | Display another survey about craft village | Display another survey about craft village | Pass | 27/03/2023 |

## Sprint 3

**Table 12.** Edit Village on Website

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | Search craft village by name | 1. Enter the name of the village you want to find 2. Click button search | Map showing the location of the craft village | Map showing the location of the craft village | Pass | 11/04/2023 |
| TC02 | Do not enter anything in the search bar | 1. Leave the search bar blank 2. Click button search | Map showing the location of the craft village | Map showing the location of the craft village | Pass | 11/04/2023 |
| TC03 | Click the deselect all button to hide the location of all craft villages | Click the deselect button in select all | The location of the craft villages will disappear on the map | The location of the craft villages will disappear on the map | Pass | 11/04/2023 |
| TC04 | Click the deselect all button to hide the location of a craft village | Click the deselect button in craft village | The location of the craft village will disappear on the map | The location of the craft villages will disappear on the map | Pass | 11/04/2023 |
| TC05 | Declare empty name of village | 1. Leave the name of village blank 2. Click "Cập nhật" | Display message please fill in information | Display message please fill in information | Pass | 11/04/2023 |
| TC06 | Declare empty latitude | 1. Leave the latitude blank 2. Click "Cập nhật" | Display message please fill in information | Display message please fill in information | Pass | 11/04/2023 |
| TC07 | Declare empty longitude | 1. Leave the longitude blank 2. Click "Cập nhật" | Display message please fill in information | Display message please fill in information | Pass | 11/04/2023 |
| TC08 | Declare empty description | 1. Leave the description blank 2. Click "Cập nhật" | Display message please fill in information | Display message please fill in information | Pass | 11/04/2023 |

## Sprint 4

**Table 13.** View Submited Survey

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | View detailed household declaration | Click on "Chi tiết" | Display details of household production | Display details of household production | Pass | 26/04/2023 |

## Sprint 5

**Table 14.** Download Dataset

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | The dataset has been downloaded successfully | 1. Click the download button | Successfully downloaded the JSON dataset | Successfully downloaded the JSON dataset | Pass | 11/05/2023 |
| 2. Choose a storage location |
| 3. Click the Save button |

**Table 15.** AI Predicts The Outcome

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | Display forecast of pollution type in craft villages through survey | Click to select a craft village on the map | Displays the type of pollution being warned | Displays the type of pollution being warned | Pass | 11/05/2023 |

**Table 16.** Warning Notice

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Test Case Description** | **Test Case Produre** | **Excepted Output** | **Actual Result** | **Test Result** | **Test Date** |
| TC01 | Displays a conflict warning message between the user's declaration  and the pollution forecast through the declaration of the craft village. | 1. Click the notification button 2. Click on the notification line | Display village information Display marker warning for this survey on map and marker turns yellow Display that survey information | Display village information Display marker warning for this survey on map and marker turns yellow Display that survey information | Pass | 11/05/2023 |

## Integration Testing Sumary

**Table 17.** Integration Testing Sumary

|  |  |  |  |
| --- | --- | --- | --- |
| **Sprint** | **Number of Test Case** | **PASS** | **FAIL** |
| 1 | 36 | 36 | 0 |
| 2 | 41 | 35 | 6 |
| 3 | 8 | 8 | 0 |
| 4 | 1 | 1 | 0 |
| 5 | 3 | 3 | 0 |
| **Total** | **89** | **83** | **6** |

# API Testing

## Sprint 1

**Table 18.** API Testing Sprint 1

| **No** | **Test case name** | **Title** | **Method** | **URL** | **Payload** | **Expected result** | **Actual result** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | API Address | Get countries | **GET** | /craftvillage/api/address/getcountrylist |  | [  {  "countryId": int,  "zipcode": String,  "countryName": String  }, ] |  | **Pass** |
| 2 | Get provinces by countryid | **GET** | /craftvillage/api/address/getprovincelist?countryid=234 |  | [  {  "provinceId": int,  "provinceCode": String,  "provinceName": String  }, ] |  | **Pass** |
| 3 | Get districts by provinceid | **GET** | /craftvillage/api/address/getdistrictlist?provinceid=1 |  | [  {  "districtId": int,  "districtCode": String,  "districtName": String  }, ] |  | **Pass** |
| 4 | Get wards by districtid | **GET** | /craftvillage/api/address/getwardlist?districteid=1 |  | [  {  "wardId": int,  "wardCode": String,  "wardName": String  }, ] |  | **Pass** |
| 5 | Get villages by wardid | **GET** | /craftvillage/api/address/getvillage?wardid=20029 |  | [  {  "villageId": int,  "villageName": String,  "coordinate":String,  "note": String,  "hasAdded": int  }, ] |  | **Pass** |
| 6 | API Village | Create new village | **POST** | /craftvillage/api/village/newvillage |  | 205 | 205 | **Pass** |
| 7 | Create same village | **POST** | /craftvillage/api/village/newvillage |  | -1 | -1 | **Pass** |

## Sprint 2

**Table 19.** API Testing Sprint 2

| **No** | **Test case name** | **Title** | **Method** | **URL** | **Payload** | **Expected result** | **Actual result** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Send mail | Send actived code | **GET** | /craftvillage/api/user/sendmail?email=capstone\_1@gmail.com |  | {  "activeCode": String,  "activeDate": String } |  | **Pass** |
| 2 | Register | Register\_success | **POST** | /craftvillage/api/user/register |  | {  "key": "11" } |  | **Pass** |
| 3 | Register with same username | **POST** | /craftvillage/api/user/register |  | {  "key": "12" } |  | **Pass** |
| 4 | Register with same Email | **POST** | /craftvillage/api/user/register |  | {  "key": "13" } |  | **Pass** |
| 5 | Register with same phone number | **POST** | /craftvillage/api/user/register |  | {  "key": "14" } |  | **Pass** |
| 6 | Register with wrong code | **POST** | /craftvillage/api/user/register |  | {  "key": "0" } |  | **Pass** |
| 7 | Register with expired code | **POST** | /craftvillage/api/user/register |  | {  "key": "2" } |  | **Pass** |
| 8 | Log in | Login\_success | **POST** | /craftvillage/api/user/logingapp |  | {  "error": null,  "token": String } |  | **Pass** |
| 9 | Login with wrong username | **POST** | /craftvillage/api/user/logingapp |  | {  "error": "ERR\_USER\_NOT\_EXIST",  "token": null } |  | **Pass** |
| 10 | Login account on 2 devices | **POST** | /craftvillage/api/user/logingapp |  | {  "error": "ERROR\_LOGIN\_DOUBLE",  "token": null } |  | **Pass** |
| 11 | Login with wrong password | **POST** | /craftvillage/api/user/logingapp |  | {  "error": "ERR\_USER\_WRONG\_PASS",  "token": null } |  | **Pass** |
| 12 | Log out | Log out | **GET** | /craftvillage/api/user/logoutgapp | TRUE | TRUE | **Pass** |
| 13 | Forget password | Reset password\_success | **POST** | /craftvillage/api/user/forgetpass |  | TRUE | TRUE | **Pass** |
| 14 | Reset password with wrong username | **POST** | /craftvillage/api/user/forgetpass |  | FALSE | FALSE | **Pass** |
| 15 | Reset password with wrong email | **POST** | /craftvillage/api/user/forgetpass |  | FALSE | FALSE | **Pass** |
| 16 | Change password | Change password\_success | **POST** | /craftvillage/api/user/changepass |  | TRUE | TRUE | **Pass** |
| 17 | Change password with wrong current password | **POST** | /craftvillage/api/user/changepass | FALSE | FALSE | **Pass** |
| 18 | Update info | Update user info | **POST** | /craftvillage/api/user/updateuser |  | TRUE | TRUE | **Pass** |
| 19 | Report | Report bug | **POST** | /report |  | TRUE | TRUE | **Pass** |
| 7 | API Question | Get question | **GET** | /craftvillage/api/survey/question |  |  |  | **Pass** |
| 8 | API answer | Get answer | **GET** | /craftvillage/api/survey/answer |  |  |  | **Pass** |
| 9 | API answer | Submit answer | **POST** | /craftvillage/api/survey/answer |  | TRUE | TRUE | **Pass** |
| 8 | Get household | Get household | **GET** | /api/map/getHousehold?villageId=10711 |  | |  | | --- | |  | | | **Pass** |
| 9 | Get image | Get image | **GET** | /craftvillage/api/survey/getImage?surveyId=5 |  | |  | | --- | |  | | | **Pass** |
| 10 | Get household answer | Get household answer | **GET** | /craftvillage/api/survey/answerHousehold?householdId=4 |  | |  | | --- | |  | | | **Pass** |

## Sprint 3

**Table 20.** API Testing Sprint 3

| **No** | **Test case name** | **Title** | **Method** | **URL** | **Payload** | **Expected result** | **Actual result** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Detect village | Detect village by coordinate | **GET** | /craftvillage/api/village/detectvillage?longitude=123.123&latitude=123.23 |  | {  "hasAdded": "1",  "wardName": "Phường Phúc Xá",  "villageLongitude": " 123.23",  "districtId": "1",  "districtName": "Quận Ba Đình",  "villageNote": "day la mo ta",  "villageLatitude": "123.123",  "wardId": "1",  "provinceName": "Thành phố Hà Nội",  "villageName": "7/12 test",  "villageId": "241",  "provinceId": "1" } |  | **Pass** |
| 2 | Submit survey | Submit survey | **POST** | /craftvillage/api/village/submitvillage |  | TRUE | TRUE | **Pass** |
| 3 | Submit survey | **POST** | /craftvillage/api/village/submitvillage |  | FALSE | FALSE | **Pass** |
| 4 | Declare village | Declare household's village | **POST** | /web/household/village |  | TRUE | TRUE | **Pass** |
| 5 | Declare household's village | **POST** | /web/household/village |  | FALSE | FALSE | **Pass** |
| 6 | Create Local Authority account | Create\_success | **POST** | /web/admin/createauthority |  | {  "key": "1",  "message": "Đăng ký thành công!" } |  | **Pass** |
| 7 | Create with same account | **POST** | /web/admin/createauthority |  | {  "key": "2",  "message": "Người dùng này đã tồn tại!" } |  | **Pass** |
| 8 | Create with same email | **POST** | /web/admin/createauthority |  | {  "key": "3",  "message": "Email này đã được sử dụng!" } |  | **Pass** |
| 9 | Create with same phone number | **POST** | /web/admin/createauthority |  | {  "key": "4",  "message": "Số điện thoại này đã được sử dụng!" } |  | **Pass** |
| 10 | API answer | Submit answer | **POST** | /craftvillage/api/village/update |  | |  | | --- | |  | | | **Pass** |

## Sprint 4

**Table 21.** API Testing Sprint 4

| **No** | **Test case name** | **Title** | **Method** | **URL** | **Payload** | **Expected result** | **Actual result** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Get surveys | Get survey | **GET** | /craftvillage/api/survey/allsurvey |  | {  "completedSurvey": [  {  "villageId": "1",  "villageName": "Làng gốm Bát Tràng",  "date": "2022-11-05"  }  ],  "inprogressSurvey": [] } |  | **Pass** |
| 2 | Register | Register\_success | **POST** | /craftvillage/api/user/register |  | {  "key": "11",  "message": "Đăng ký thành công!" } |  | **Pass** |
| 3 | Register with same username | **POST** | /craftvillage/api/user/register |  | {  "key": "12",  "message": "Người dùng này đã tồn tại!" } |  | **Pass** |
| 4 | Register with same Email | **POST** | /craftvillage/api/user/register |  | {  "key": "13",  "message": "Email này đã được sử dụng!" } |  | **Pass** |
| 5 | Register with same phone number | **POST** | /craftvillage/api/user/register |  | {  "key": "14",  "message": "Số điện thoại này đã được sử dụng!" } |  | **Pass** |
| 6 | Register with wrong code | **POST** | /craftvillage/api/user/register |  | {  "key": "0",  "message": "Sai mã xác nhận!" } |  | **Pass** |
| 7 | Register with expired code | **POST** | /craftvillage/api/user/register |  | {  "key": "2",  "message": "Mã xác nhận đã hết hạn!" } |  | **Pass** |
| 8 | Make decision | Accept new village | **POST** | /web/authority/accept?villageId=4 | TRUE | TRUE | **Pass** |
| 9 | Decline new village | **POST** | /web/authority/accept?villageId=5 |  | TRUE | TRUE | **Pass** |
| 10 | Get data set | Get data set | **GET** | /craftvillage/api/dataSet/getAll |  |  |  | **Pass** |

## Sprint 5

**Table 22.** API Testing Sprint 5

| **No** | **Test case name** | **Title** | **Method** | **URL** | **Payload** | **Expected result** | **Actual result** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Detect village | Detect village by coordinate | **GET** | /craftvillage/api/village/detectvillage?longitude=123.123&latitude=123.23 |  | [  {  "hasAdded": "1",  "wardName": "Phường Phúc Xá",  "villageLongitude": "123.23",  "districtName": "Quận Ba Đình",  "villageNote": "day la mo ta",  "villageLatitude": "123.123",  "provinceName": "Thành phố Hà Nội",  "villageName": "7/12 test",  "villageId": "241"  } ] |  | **Pass** |
| 2 | Update question | Update required state | **PUT** | /craftvillage/api/survey/question |  | TRUE | TRUE | **Pass** |
| 3 | Notification | Get notification | **GET** | /craftvillage/api/notification |  | |  | | --- | |  | | | **Pass** |
| 4 | Seen notification | **PUT** | /craftvillage/api/notification?id=2 |  | TRUE | TRUE | **Pass** |

## API Testing Sumary

**Table 23.** API Testing Sumary

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SPRINT | Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 | Sprint 5 | **Total** |
| PASS | 7 | 25 | 10 | 10 | 4 | 56 |
| FAIL | 0 | 0 | 0 | 0 | 0 | 0 |