



# Capstone Project 2

CMU-SE 451

## Test Case

### Craft Village Pollution Monitor System

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



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## PROJECT INFORMATION

<b>Project acronym</b>	CVPMS		
<b>Project Title</b>	Craft Village Pollution Monitor System		
<b>Start Date</b>	01/03/2023	<b>End Date</b>	15/05/2023
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# 1. Integration Testing

## 1.1. Sprint 1

**Table 1.** *Login on Website*

ID	Test Case Description	Test Case Produce	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

ID	Test Case Description	Test Case Produce	Excepted Output	Actual Result	Test Result	Test Date
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 Produce	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	Registered a new account to database	Registered a new account to database	Pass	12/03/2023

ID	Test Case Description	Test Case Produce	Excepted Output	Actual Result	Test Result	Test Date
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



ID	Test Case Description	Test Case Produce	Excepted Output	Actual Result	Test Result	Test Date
TC05	Declare empty password	<ol style="list-style-type: none"> <li>1. Enter correct username</li> <li>2. Leave password blank</li> <li>3.Re-enter password</li> <li>4. Enter phone number</li> <li>5. Enter email address</li> <li>6. Click on "Gửi mã" button</li> <li>7. Enter the code received from email</li> <li>8. Click on "Đăng ký" button</li> </ol>	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	<ol style="list-style-type: none"> <li>1. Enter correct username</li> <li>2. Enter password</li> <li>3. Leave the box to re-enter password blank</li> <li>4. Enter phone number</li> <li>5. Enter email address</li> <li>6. Click on "Gửi mã" button</li> <li>7. Enter the code received from email</li> <li>8. Click on "Đăng ký" button</li> </ol>	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	<ol style="list-style-type: none"> <li>1. Enter correct username</li> <li>2. Enter password</li> <li>3. Leave the box to re-enter password blank</li> <li>4. Enter phone number</li> <li>5. Enter invalid email address</li> <li>6. Click on "Gửi mã" button</li> <li>7. Enter the code received from email</li> <li>8. Click on "Đăng ký" button</li> </ol>	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	<ol style="list-style-type: none"> <li>1. Enter correct username</li> <li>2. Enter password</li> <li>3.Re-enter password</li> <li>4. Enter phone number</li> <li>5. Enter email address</li> <li>6. Enter any code</li> <li>7. Click on "Đăng ký" button</li> </ol>	Display Error Message "Vui lòng nhập đầy đủ thông tin!"	Display Error Message "Vui lòng nhập đầy đủ thông tin!"	Pass	12/03/2023

ID	Test Case Description	Test Case Procedure	Expected Output	Actual Result	Test Result	Test Date
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	Expected Output	Actual Result	Test Result	Test Date
TC01	Check Language 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 Produce	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 Produce	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

## 1.2. Sprint 2

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

ID	Test Case Description	Test Case Produce	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

ID	Test Case Description	Test Case Produce	Excepted Output	Actual Result	Test Result	Test Date
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 Produce	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 Produce	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 longitude 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 longitude 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 longitude 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



ID	Test Case Description	Test Case Produce	Excepted Output	Actual Result	Test Result	Test Date
TC06	Declare invalid longitude	1. Select Ward 2. Enter the name of craft village 3. Enter the invalid longitude 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 longitude 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 longitude 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 longitude 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 Produce	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 Produce	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

ID	Test Case Description	Test Case Produre	Excepted Output	Actual Result	Test Result	Test Date
TC06	Declare a new village success	1.Select Province/City 2. Select District 3. Select Ward 4. Enter the latitude 5. Enter the longitude 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 longitude 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 longitude	1.Select Province/City 2. Select District 3. Select Ward 4. Enter the latitude 5. Enter the invalid longitude 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

ID	Test Case Description	Test Case Produce	Excepted Output	Actual Result	Test Result	Test Date
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 longitude 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 longitude 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 Produce	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

### 1.3. Sprint 3

**Table 12. Edit Village on Website**

ID	Test Case Description	Test Case Produce	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

## 1.4.Sprint 4

**Table 13.** *View Submitted Survey*

ID	Test Case Description	Test Case Produce	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

## 1.5. Sprint 5

**Table 14.** *Download Dataset*

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

**Table 15.** *AI Predicts The Outcome*

ID	Test Case Description	Test Case Produce	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 Produce	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

## 1.6. 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
<b>Total</b>	<b>89</b>	<b>83</b>	<b>6</b>



## 2. API Testing

### 2.1. 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 }, ]	[ { "countryId": 1, "zipcode": "AF", "countryName": "AFGHANISTAN" }, { "countryId": 2, "zipcode": "AX", "countryName": "ÅLAND ISLANDS" }, - ]	Pass
2		Get provinces by countryid	GET	/craftvillage/api/address/getprovincelist?countryid=234		[ { "provinceId": int, "provinceCode": String, "provinceName": String }, ]	[ { "provinceId": 1, "provinceCode": null, "provinceName": "Thành phố Hà Nội" }, { "provinceId": 2, "provinceCode": null, "provinceName": "Tỉnh Hà Giang" }, - ]	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
3		Get districts by provinceid	GET	/craftvillage/api/address/getdistrictlist?provinceid=1		[       {         "districtId": int,         "districtCode": String,         "districtName": String       },     ]	[       {         "districtId": 1,         "districtCode": null,         "districtName": "Quận Ba Đình"       },       {         "districtId": 4,         "districtCode": null,         "districtName": "Quận Long Biên"       }     ],	Pass
4		Get wards by districtid	GET	/craftvillage/api/address/getwardlist?districtid=1		[       {         "wardId": int,         "wardCode": String,         "wardName": String       },     ]	[       {         "wardId": 1,         "wardCode": null,         "wardName": "Phường Phúc Xá"       },       {         "wardId": 4,         "wardCode": null,         "wardName": "Phường Trúc Bạch"       }     ],	Pass
5		Get villages by wardid	GET	/craftvillage/api/address/getvillage?wardid=20029		[       {         "villageId": int,         "villageName": String,         "coordinate": String,         "note":       },     ]	[       {         "villageId": 3,         "villageName": "Làng Nghè Bánh Tráng",         "coordinate": "16.450702, 107.530666",         "note": "Bánh tráng truyền thống ở làng Lựu Bảo được t",         "hasAdded": 1       },       {         "villageId": 13,         "villageName": "ln1",         "coordinate": "16.460846999999998,107.60372199999999",         "note": "not)1",         "hasAdded": 1       }     ],	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
						String, "hasAdded": int }, ]		
6	API Village	Create new village	POST	/craftvillage/api/village/new village	<pre> {   "wardId": "3226",   "longitude": "989",   "latitude": "999",   "note": "25/10",   "hasAdded": "0",   "villageName": "lang nghe moi 25/10 lan 11" } </pre>	205	205	Pass
7	API Village	Create same village	POST	/craftvillage/api/village/new village	<pre> {   "wardId": "3226",   "longitude": "989",   "latitude": "999",   "note": "25/10",   "hasAdded": "0",   "villageName": "lang nghe moi 25/10 lan 11" } </pre>	-1	-1	Pass

## 2.2. 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 activated code	GET	/craftvillage/api/user/sendmail?email=capstone_1@gmail.com		{ "activeCode": String, "activeDate": String }	{ ...."activeCode": "x7Hjx8", ...."activeDate": "2022-10-1" }	Pass
2	Register	Register_success	POST	/craftvillage/api/user/register	{ ...."username": "user01", ...."password": "user01", ...."role": "USER", ...."firstname": "firstname", ...."lastname": "lastname", ...."phone": "0905123456", ...."email": "capstone_1@gmail.com", ...."activeDate": "2022-10-1", ...."activeCode": "eDdIang4", ...."activeCodeSubmit": "x7Hjx8" }	{ "key": "11" }	{ ...."key": "11" }	Pass
3		Register with same username	POST	/craftvillage/api/user/register	{ ...."username": "user01", ...."password": "user02", ...."role": "USER", ...."firstname": "firstname", ...."lastname": "lastname", ...."phone": "0905123789", ...."email": "capstone_11@gmail.com", ...."activeDate": "2022-10-1", ...."activeCode": "aTg3Sskhr", ...."activeCodeSubmit": "i87JHk" }	{ "key": "12" }	{ ...."key": "12" }	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
4		Register with same Email	POST	/craftvillage/api/user/register	<pre>{   "username": "user02",   "password": "user02",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123789",   "email": "capstone_1@gmail.com",   "activeDate": "2022-10-1",   "activeCode": "aTg3Skhr",   "activeCodeSubmit": "i87JHk" }</pre>	<pre>{   "key": "13" }</pre>	<pre>{   "key": "13" }</pre>	Pass
5		Register with same phone number	POST	/craftvillage/api/user/register	<pre>{   "username": "user02",   "password": "user02",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123456",   "email": "capstone_11@gmail.com",   "activeDate": "2022-10-1",   "activeCode": "aTg3Skhr",   "activeCodeSubmit": "i87JHk" }</pre>	<pre>{   "key": "14" }</pre>	<pre>{   "key": "14" }</pre>	Pass
6		Register with wrong code	POST	/craftvillage/api/user/register	<pre>{   "username": "user02",   "password": "user02",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123789",   "email": "capstone_11@gmail.com",   "activeDate": "2022-10-1",   "activeCode": "aTg3Skhr",   "activeCodeSubmit": "abcxyz" }</pre>	<pre>{   "key": "0" }</pre>	<pre>{   "key": "0" }</pre>	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
7		Register with expired code	POST	/craftvillage/api/user/register	<pre>{   .... "username": "user02",   .... "password": "user02",   .... "role": "USER",   .... "firstname": "firstname",   .... "lastname": "lastname",   .... "phone": "0905123789",   .... "email": "capstone_11@gmail.com",   .... "activeDate": "2022-9-1",   .... "activeCode": "aTg3Sskr",   .... "activeCodeSubmit": "i87JHk" }</pre>	<pre>{   "key": "2" }</pre>	<pre>{   .... "key": "2" }</pre>	Pass
8	Log in	Login_success	POST	/craftvillage/api/user/loginapp	<pre>{   .... "name": "user01",   .... "password": "user01" }</pre>	<pre>{   "error": null,   "token": String }</pre>	<pre>{   "error": null,   "token": "eyJhbGciOiJIUzI1NiJ9.eyJzdWUiOiJsYTAzIiwic2Vzc2lvdnkIjoiRlUyM0IjY2RUE1MDQ1MDM5OTJCODg0RTZDRTRCMkEiLCJleHAiOiJlNTE1MDMsIm1hdCI6MTY3MDQ4MDM1NH0.eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1b290IjoiRlUyM0IjY2RUE1MDQ1MDM5OTJCODg0RTZDRTRCMkEiLCJleHAiOiJlNTE1MDMsIm1hdCI6MTY3MDQ4MDM1NH0.KHbugc" }</pre>	Pass
9		Login with wrong username	POST	/craftvillage/api/user/loginapp	<pre>{   .... "name": "user02",   .... "password": "user01" }</pre>	<pre>{   "error": "ERR_USER_NOT_EXIST",   "token": null }</pre>	<pre>{   "error": "ERR_USER_NOT_EXIST",   "token": null }</pre>	Pass
10		Login account on 2 devices	POST	/craftvillage/api/user/loginapp	<pre>{   .... "name": "user01",   .... "password": "user01" }</pre>	<pre>{   "error": "ERROR_LOGIN_DOUBLE",   "token": null }</pre>	<pre>{   .... "error": "ERROR_LOGIN_DOUBLE",   .... "token": null }</pre>	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
11		Login with wrong password	POST	/craftvillage/api/user/loginapp	{ ....."name"::"user01", ....."password"::"user02"	{ "error": "ERR_USER_WRONG_PASS", "token": null }	{ "error": "ERR_USER_WRONG_PASS", "token": null }	Pass
12	Log out	Log out	GET	/craftvillage/api/user/logoutapp	{	TRUE	TRUE	Pass
13	Forget password	Reset password _success	POST	/craftvillage/api/user/forggetpass	{ ....."username": "user01", ....."email": "capstone_1@gmail.com"	TRUE	TRUE	Pass
14		Reset password with wrong username	POST	/craftvillage/api/user/forggetpass	{ ....."username": "user02", ....."email": "capstone_1@gmail.com"	FALSE	FALSE	Pass
15		Reset password with wrong email	POST	/craftvillage/api/user/forggetpass	{ ....."username": "user01", ....."email": "capstone_11@gmail.com"	FALSE	FALSE	Pass
16	Change password	Change password _success	POST	/craftvillage/api/user/changeapp	{ ....."oldPass": "user01", ....."newPass": "newpass"	TRUE	TRUE	Pass
17		Change password with wrong	POST	/craftvillage/api/user/changeapp	{ ....."oldPass": "oldpass", ....."newPass": "user01"	FALSE	FALSE	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
		current password						
18	Update info	Update user info	POST	/craftvillage/api/user/updateuser	<pre>{   "firstname": "newfirstname",   "lastname": "newlastname",   "phone": "0905123456" }</pre>	TRUE	TRUE	Pass
19	Report	Report bug	POST	/report	<pre>{   "title": "Test Report",   "detail": "Day la loi" }</pre>	TRUE	TRUE	Pass
7	API Question	Get question	GET	/craftvillage/api/survey/question			<pre>{   "id": 181,   "questionContent": "Lượng khí ga đã sử dụng",   "questionType": "TextFieldNumber",   "questionLabel": "1000 m3",   "required": 1,   "surveyQuestionAnswers": [     {       "id": 169,       "answerContent": "Vui lòng điền vào đây",       "indicate": null,       "answerType": "TFN"     }   ] }</pre>	Pass



No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
8	API answer	Get answer	GET	/craftvillage/api/survey/answer			<pre> {   "id": 1098,   "answerContent": "",   "answerId": 35 }, </pre>	Pass
9	API answer	Submit answer	POST	/craftvillage/api/survey/answer	<pre> {   "answers": [     {       "id": 169,       "value": "25"     }   ], </pre>	TRUE	TRUE	Pass
8	Get household	Get household	GET	/api/map/getHousehold?villageId=10711			<pre> ▼[{householdId: 4, householdName: "Nhân Bá"}, {householdId: 9, householdName: "Oanh Hoàng"},...] ▼0: {householdId: 4, householdName: "Nhân Bá"} householdId: 4 householdName: "Nhân Bá" ▼1: {householdId: 9, householdName: "Oanh Hoàng"} householdId: 9 householdName: "Oanh Hoàng" ▼2: {householdId: 10, householdName: "Thắng Đoàn"} householdId: 10 householdName: "Thắng Đoàn" ▶3: {householdId: 11, householdName: "Tin Nguyễn"} ▶4: {householdId: 12, householdName: "Phúc Hoàng"} ▶5: {householdId: 8, householdName: "Trung Nguyễn"} ▶6: {householdId: 13, householdName: "Nhân Huỳnh"} ▶7: {householdId: 5, householdName: "Trúc Đặng"} ▶8: {householdId: 6, householdName: "Ca Lê"} </pre>	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
9	Get image	Get image	GET	/craftvillage/api/survey/getImage?surveyId=5			<pre> {date: "2023-03-31 11:11:11.0", note: "Có mùi hôi",...}   coordinate: "108.2075091, 16.0229705"   date: "2023-03-31 11:11:11.0"   image: "/9j/4QAYRXhpZgAASUkqAAgAAAAAAAAAAAAAP/sABFEEdWNre   note: "Có mùi hôi"   pollution: "Đất - Nước"   warning: true </pre>	Pass
10	Get household answer	Get household answer	GET	/craftvillage/api/survey/answerHousehold?householdId=4			<pre> [[{"id: 659, answerContent: "", answerId: 174}, {"id: 645, answerContent: "16", answerId: 166},...]]   ▼0: {id: 659, answerContent: "", answerId: 174}     answerContent: ""     answerId: 174     id: 659   ▼1: {id: 645, answerContent: "16", answerId: 166}     answerContent: "16"     answerId: 166     id: 645   ▼2: {id: 643, answerContent: "true", answerId: 67}     answerContent: "true"     answerId: 67     id: 643   ▶3: {id: 644, answerContent: "true", answerId: 65}   ▶4: {id: 657, answerContent: "", answerId: 72}   ▶5: {id: 635, answerContent: "true", answerId: 125} </pre>	Pass

## 2.3. 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" }	{ "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

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
2	Submit survey	Submit survey	POST	/craftvillage/api/village/submitvillage	<pre>{   "villageId": "1",   "longitude": "123",   "latitude": "latitude",   "image": "imageEncodeBase64String",   "result": "111",   "note": "" }</pre>	TRUE	TRUE	Pass
3		Submit survey	POST	/craftvillage/api/village/submitvillage	<pre>{   "villageId": "-1",   "longitude": "123",   "latitude": "latitude",   "image": "imageEncodeBase64String",   "result": "111",   "note": "" }</pre>	FALSE	FALSE	Pass
4	Declare village	Declare household's village	POST	/web/household/village	<pre>{   "villageId": "1" }</pre>	TRUE	TRUE	Pass
5		Declare household's village	POST	/web/household/village	<pre>{   "villageId": "-1" }</pre>	FALSE	FALSE	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
6	Create Local Authority account	Create_success	POST	/web/admin/createauthority	<pre>{   "username": "localauthority1",   "password": "localauthority1",   "role": "LOCALAUTHORITY",   "name": "LOCALAUTHORITY name",   "phone": "0905111111",   "email": "localauthority1@gmail.com",   "district": "1" }</pre>	<pre>{   "key": "1",   "message": "Đăng ký thành công!" }</pre>	<pre>{   "key": "1",   "message": "Đăng ký thành công!" }</pre>	Pass
7		Create with same account	POST	/web/admin/createauthority	<pre>{   "username": "localauthority1",   "password": "localauthority1",   "role": "LOCALAUTHORITY",   "name": "LOCALAUTHORITY name",   "phone": "0905111111",   "email": "localauthority1@gmail.com",   "district": "1" }</pre>	<pre>{   "key": "2",   "message": "Người dùng này đã tồn tại!" }</pre>	<pre>{   "key": "2",   "message": "Người dùng này đã tồn tại!" }</pre>	Pass
8		Create with same email	POST	/web/admin/createauthority	<pre>{   "username": "localauthority2",   "password": "localauthority2",   "role": "LOCALAUTHORITY",   "name": "LOCALAUTHORITY name",   "phone": "0905222222",   "email": "localauthority1@gmail.com",   "district": "1" }</pre>	<pre>{   "key": "3",   "message": "Email này đã được sử dụng!" }</pre>	<pre>{   "key": "3",   "message": "Email này đã được sử dụng!" }</pre>	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
9		Create with same phone number	POST	/web/admin/createauthority	<pre>{   "username": "localauthority2",   "password": "localauthority2",   "role": "LOCALAUTHORITY",   "name": "LOCALAUTHORITY name",   "phone": "0905111111",   "email": "localauthority2@gmail.com",   "district": "1" }</pre>	<pre>{   "key": "4",   "message": "Số điện thoại này đã được sử dụng!" }</pre>	<pre>{   "key": "4",   "message": "Số điện thoại này đã được sử dụng!" }</pre>	Pass
10	API answer	Submit answer	POST	/craftvillage/api/village/update	<div>▼ Request Payload <a href="#">view source</a></div> <div>▼{villageId: 10711, wardId: 20260, note: "Làng nghề 1", longitude: "108.20720079802258",-}   latitude: "16.02312829010941"   longitude: "108.20720079802258"   note: "Làng nghề 1"   villageId: 10711   villageName: "Làng nghề 5"   wardId: 20260</div>	<div>▼{villageId: 10711, villageName: "Làng nghề 5", coordinate: "16.02312829010941, 108.20720079802258",-}   coordinate: "16.02312829010941, 108.20720079802258"   hasAdded: 1   note: "Làng nghề 1"   state: "111"   villageId: 10711   villageName: "Làng nghề 5"</div>		Pass

## 2.4. 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		<pre>{   "completedSurvey": [     {       "villageId": "1",       "villageName": "Làng gồm Bát Tràng",       "date": "2022-11-05"     }   ],   "inprogressSurvey": [] }</pre>	<pre>{   "completedSurvey": [     {       "villageId": "1",       "villageName": "Làng gồm Bát Tràng",       "date": "2022-11-05"     }   ],   "inprogressSurvey": [] }</pre>	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
2	Register	Register_success	POST	/craftvillage/api/user/register	<pre>{   "username": "user01",   "password": "user01",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123456",   "email": "capstone_1@gmail.com",   "activeDate": "2022-10-1",   "activeCode": "eDdIang4",   "activeCodeSubmit": "x7Hjx8" }</pre>	<pre>{   "key": "11",   "message": "Đăng ký thành công!" }</pre>	<pre>{   "key": "11",   "message": "Đăng ký thành công!" }</pre>	Pass
3		Register with same username	POST	/craftvillage/api/user/register	<pre>{   "username": "user01",   "password": "user02",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123789",   "email": "capstone_11@gmail.com",   "activeDate": "2022-10-1",   "activeCode": "aTg3Skhr",   "activeCodeSubmit": "i87JHk" }</pre>	<pre>{   "key": "12",   "message": "Người dùng này đã tồn tại!" }</pre>	<pre>{   "key": "12",   "message": "Người dùng này đã tồn tại!" }</pre>	Pass



No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
4		Register with same Email	POST	/craftvillage/api/user/register	<pre> {   "username": "user02",   "password": "user02",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123789",   "email": "capstone_1@gmail.com",   "activeDate": "2022-10-1",   "activeCode": "aTg3Skhr",   "activeCodeSubmit": "i87JHk" } </pre>	<pre> {   "key": "13",   "message": "Email này đã được sử dụng!" } </pre>	<pre> {   "key": "13",   "message": "Email này đã được sử dụng!" } </pre>	Pass
5		Register with same phone number	POST	/craftvillage/api/user/register	<pre> {   "username": "user02",   "password": "user02",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123456",   "email": "capstone_11@gmail.com",   "activeDate": "2022-10-1",   "activeCode": "aTg3Skhr",   "activeCodeSubmit": "i87JHk" } </pre>	<pre> {   "key": "14",   "message": "Số điện thoại này đã được sử dụng!" } </pre>	<pre> {   "key": "14",   "message": "Số điện thoại này đã được sử dụng!" } </pre>	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
6		Register with wrong code	POST	/craftvillage/api/user/register	<pre>{   "username": "user02",   "password": "user02",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123789",   "email": "capstone_11@gmail.com",   "activeDate": "2022-10-1",   "activeCode": "aTg3Skhr",   "activeCodeSubmit": "abcxyz" }</pre>	<pre>{   "key": "0",   "message": "Sai mã xác nhận!" }</pre>	<pre>{   "key": "0",   "message": "Sai mã xác nhận!" }</pre>	Pass
7		Register with expired code	POST	/craftvillage/api/user/register	<pre>{   "username": "user02",   "password": "user02",   "role": "USER",   "firstname": "firstname",   "lastname": "lastname",   "phone": "0905123789",   "email": "capstone_11@gmail.com",   "activeDate": "2022-9-1",   "activeCode": "aTg3Skhr",   "activeCodeSubmit": "i87JHk" }</pre>	<pre>{   "key": "2",   "message": "Mã xác nhận đã hết hạn!" }</pre>	<pre>{   "key": "2",   "message": "Mã xác nhận đã hết hạn!" }</pre>	Pass
8	Make decision	Accept new village	POST	/web/authority/accept?villageId=4		TRUE	TRUE	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
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			<pre>[   {     "pollution": "101",     "question": [       {         "questionId": 191,         "content": "Lượng nước đầu vào",         "answer": [           {             "value": "12",             "count": 1           }         ]       }     ]   } ],</pre>	Pass

## 2.5. 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"         }       ]	<pre> [   {     "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"   } ]</pre>	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
2	Update question	Update required state	PUT	/craftvillage/api/survey/question	<pre>[   {     "questionId": 22,     "required": 1   }, ]</pre>	TRUE	TRUE	Pass
3	Notification	Get notification	GET	/craftvillage/api/notification			<pre>▼[{villageId: 10711, surveyId: 5, date: "2023-03-31T04:11:11.000+0000", villageName: "Làng nghề 1",-}]   ▼0: {villageId: 10711, surveyId: 5, date: "2023-03-31T04:11:11.000+0000", villageName: "Làng nghề 1",-}     date: "2023-03-31T04:11:11.000+0000"     seen: true     surveyId: 5     villageId: 10711     villageName: "Làng nghề 1"   ▼1: {villageId: 10711, surveyId: 2, date: "2023-03-30T17:00:00.000+0000", villageName: "Làng nghề 1",-}     date: "2023-03-30T17:00:00.000+0000"     seen: false     surveyId: 2     villageId: 10711     villageName: "Làng nghề 1"</pre>	Pass

No	Test case name	Title	Method	URL	Payload	Expected result	Actual result	Status
4		Seen notification	PUT	/craftvillage/api/notification?id=2		TRUE	TRUE	Pass

## 2.6. 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