

International School

**Capstone Project 2**

CMU-SE 451

**User Interface Design Document**

**Version 2.2**

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**Craft Village Pollution Monitor System**

**Submitted by**

**Ca, Van Cong Le**

**Huy, Bui Duc**

**Phuc, Hua Hoang**

**Trung, Nguyen Thanh**

**Nhan, Huynh Ba**

**Approved by**

**Ph.D. Nguyen Thanh Binh**

**Proposal Review Panel Representative:**

Name Signature Date

**Capstone Project 2 - Mentor:**



Name Signature Date

**PROJECT INFORMATION**

|  |  |  |  |
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| **Project acronym** | CVPMS | | |
| **Project Title** | Craft Village Pollution Monitor System | | |
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| **Lead Institution** | International School, Duy Tan University | | |
| **Project Mentor** | Ph.D. Thanh Binh, Nguyen | | |
| **Scrum master / Project Leader & contact details** | Ca, Van Cong Le  *Email:* [cascabusiness@gmail.com](about:blank)  *Tel:* 0352707895 | | |
| **Partner Organization** |  | | |
| **Project Web URL** | [*https://github.com/Casca113s2/craft-village-pollution-monitor-system*](https://github.com/Casca113s2/craft-village-pollution-monitor-system) | | |
| **Team members** | **Name** | **Email** | **Tel** |
| 25211207666 | Ca, Van Cong Le | [cascabusiness@gmail.com](http://cascabusiness@gmail.com) | 0352707895 |
| 25211215894 | Huy, Bui Duc | [duchuyltt122@gmail.com](http://duchuyltt122@gmail.com) | 0818648090 |
| 25211204084 | Phuc, Hua Hoang | [phuchuho0402@gmail.com](http://phuchuho0402@gmail.com) | 0905639682 |
| 25211215133 | Trung, Nguyen Thanh | [nguyenttrung2601@gmail.com](http://nguyenttrung2601@gmail.com) | 0774496838 |
| 25211203702 | Nhan, Huynh Ba | [nhanhuynh1409@gmail.com](mailto:nhanhuynh1409@gmail.com) | 0935430785 |

DOCUMENT NAME

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| **Author(s)** | Nguyen Thanh Trung | | |
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| 1.0 | 18/09/2022 | Create Document | Nguyen Thanh Trung |  |
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**Approve Document:** Sign in to approve document

|  |  |  |  |
| --- | --- | --- | --- |
| **Mentor** | Binh, Nguyen Thanh | Date | 13/04/2023 |
| Sign |  |
| **Scrum Master** | Ca, Van Cong Le | Date | 13/04/2023 |
| Sign |  |
| **Scrum Member** | Huy, Bui Duc | Date | 13/04/2023 |
| Sign |  |
| **Scrum Member** | Phuc, Hua Hoang | Date | 13/04/2023 |
| Sign |  |
| **Scrum Member** | Trung, Nguyen Thanh | Date | 13/04/2023 |
| Sign |  |
| **Scrum Member** | Nhan, Huynh Ba | Date | 13/04/2023 |
| Sign |  |

**Table Of Contents**

[1. Introduction 7](#_Toc135199051)

[1.1. Purpose 7](#_Toc135199052)

[1.2. Scope 7](#_Toc135199053)

[2. List of User Interface 7](#_Toc135199054)

[2.1. Local Authority 7](#_Toc135199055)

[2.2. Household 7](#_Toc135199056)

[2.3. Admin 8](#_Toc135199057)

[3. Describe the User Interface 8](#_Toc135199058)

[3.1. Local Authority 8](#_Toc135199059)

[3.1.1. Local Authority Home Page 8](#_Toc135199060)

[3.1.2. Detail Declaration 10](#_Toc135199061)

[3.1.3. Pollution Craft Village Map Data Page 11](#_Toc135199062)

[3.2. Household 12](#_Toc135199063)

[3.2.1. Survey Page 12](#_Toc135199064)

[3.3. Admin 14](#_Toc135199065)

[3.3.1. Create New Local Authority Page 14](#_Toc135199066)

Table Of Figures

[**Figure 1.** UI of Local Authority Home Page 8](#_Toc135199067)

[**Figure 2.** UI of Local Authority Home Page Below 9](#_Toc135199068)

[**Figure 3.** UI of Detail Declaration 10](#_Toc135199069)

[**Figure 4.** UI of Detail Declaration 10](#_Toc135199070)

[**Figure 5.** UI of Pollution Craft Village Map Data Page 11](#_Toc135199071)

[**Figure 6.** UI of Survey Page 12](#_Toc135199072)

[**Figure 7.** UI of Survey Page 13](#_Toc135199073)

[**Figure 8.** UI of Create New Local Authority Page 14](#_Toc135199074)

Table Of Tables

[**Table 1.** List of Local Authority User Interface 7](#_Toc135198936)

[**Table 2.** List of Household User Interface 7](#_Toc135198937)

[**Table 3.** List of Admin User Interface 8](#_Toc135198938)

[**Table 4.** Elements of UI Local Authority Home Page 8](#_Toc135198939)

[**Table 5.** Elements of UI Local Authority Home Page Below 9](#_Toc135198940)

[**Table 6.** Elements of UI Detail Declaration 10](#_Toc135198941)

[**Table 7.** Elements of UI Pollution Craft Village Map Data Page 11](#_Toc135198942)

[**Table 8.** Elements of UI Survey Page 12](#_Toc135198943)

[**Table 9.** Elements of UI Survey Page 13](#_Toc135198944)

[**Table 10.** Elements of UI Create New Local Authority Page 14](#_Toc135198945)

# **Introduction**

## Purpose

* This document helps to better understand the interface of the Comment Scraper Tool, detailed specification components and function of the system.
* With this document, the development team can understand detail the structure and composition to create a consistent and complete system.

## Scope

* Overview of the stages and modules of the system.
* Create complete interfaces and describe them clearly.

# List of User Interface

## Local Authority

**Table 1.** List of Local Authority User Interface

|  |  |  |
| --- | --- | --- |
| **User Interface ID** | **UI Name** | **Description** |
| UI-01 | Local Authority Home Page | This page to see statistics about craft villages |
| UI-02 | Detail Declaration Page | This page displays detailed production information of the craft village |
| UI-03 | Pollution Craft Village Map Data Page | This page displays a map of polluted craft villages and location information |

## Household

**Table 2.** List of Household User Interface

|  |  |  |
| --- | --- | --- |
| **User Interface ID** | **UI Name** | **Description** |
| UI-04 | Survey Page | This page allows household heads to register their craft villages or register new craft villages if that craft village does not exist in the database |

## Admin

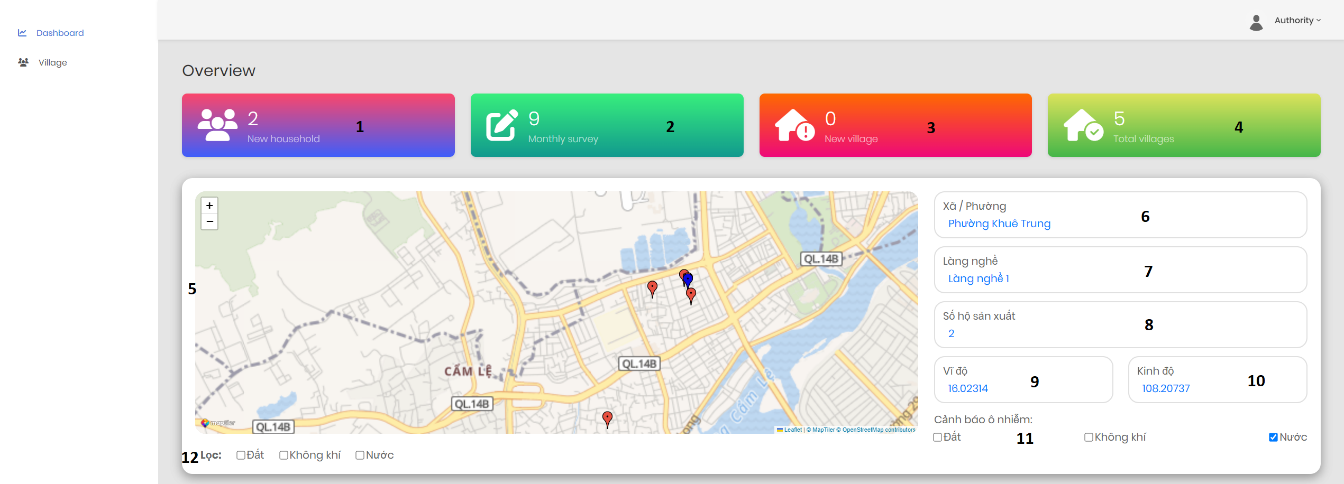
**Table 3.** List of Admin User Interface

|  |  |  |
| --- | --- | --- |
| **User Interface ID** | **UI Name** | **Description** |
| UI-05 | Create New Local Authority Page | This page to create a new local authority account. |

# Describe the User Interface

## Local Authority

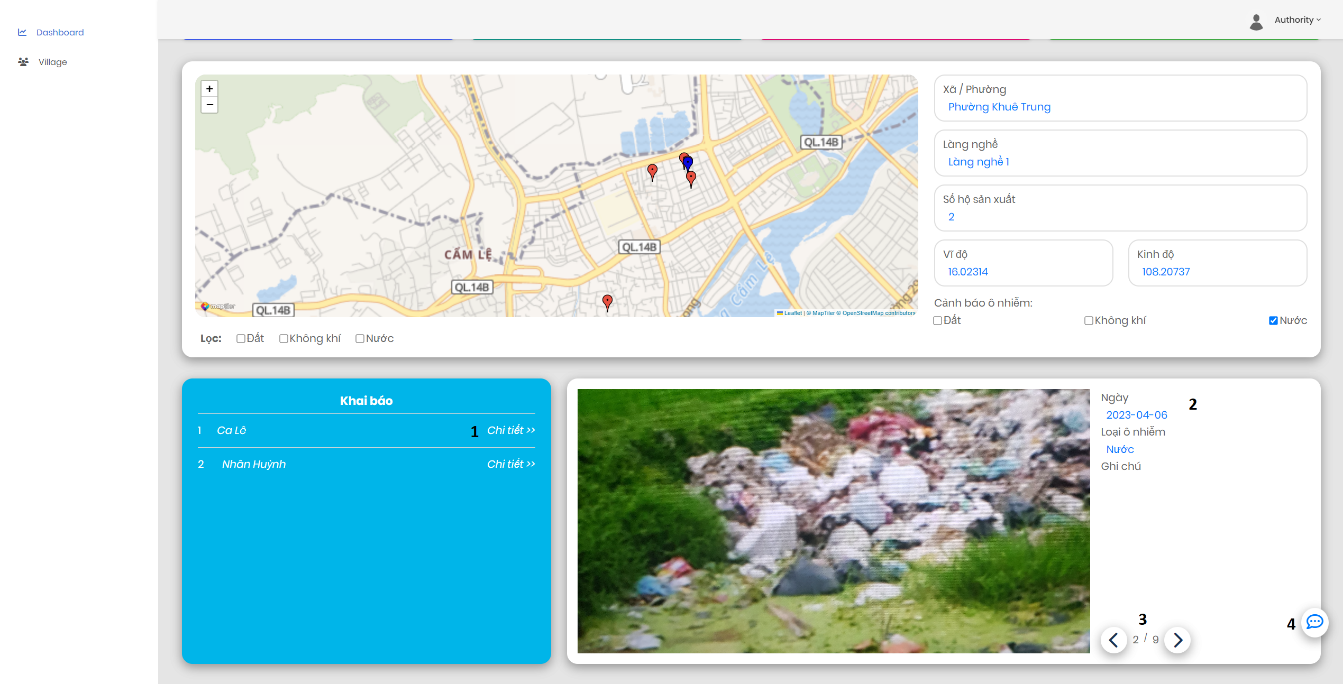
### Local Authority Home Page



**Figure 1.** UI of Local Authority Home Page

**Table 4.** Elements of UI Local Authority Home Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | Condition | Control Type | Target | Notes |
| 1 | View | Lable | Display the number of new households |  |
| 2 | View | Lable | Display the number of surveys |  |
| 3 | View | Lable | Display the number of the new village |  |
| 4 | View | Lable | Display the total village of the ward |  |
| 5 | View | Map | Display the polluted craft villages |  |
| 6 | View | Lable | Display ward address information |  |
| 7 | View | Lable | Display name of craft village |  |
| 8 | View | Lable | Display the number of households of village |  |
| 9 | View | Lable | Display the latitude of village |  |
| 10 | View | Lable | Display the longitude of village |  |
| 11 | View | Check Box | Warning about that kind of pollution in craft villages |  |
| 12 | Click | Check Box | Click to filter the type of contaminated craft village |  |

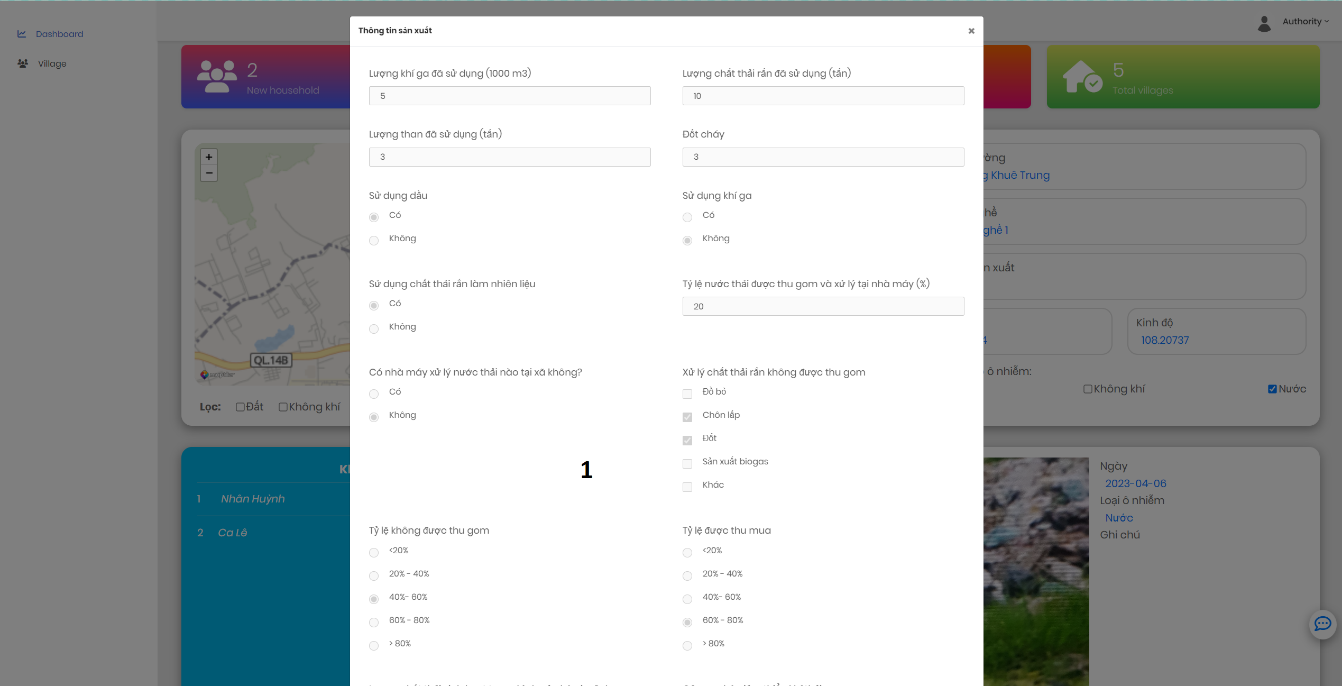


**Figure 2.** UI of Local Authority Home Page Below

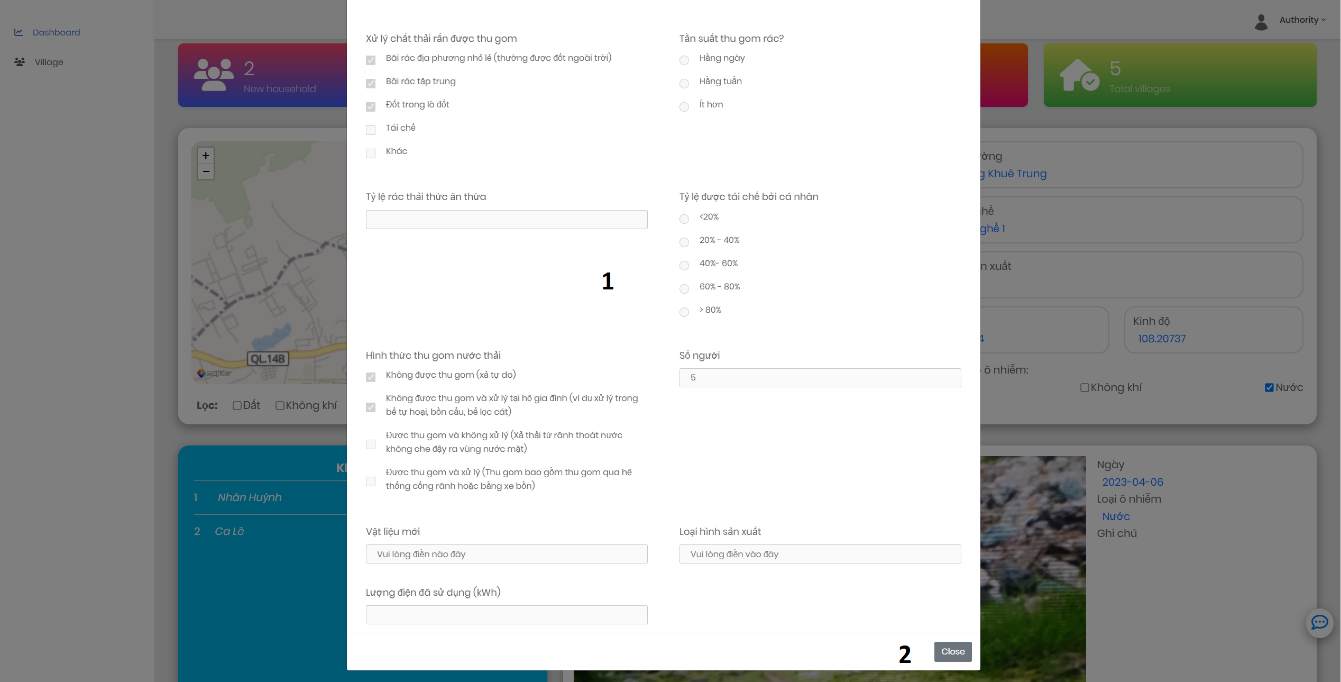
**Table 5.** Elements of UI Local Authority Home Page Below

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | Condition | Control Type | Target | Notes |
| 1 | Click | Lable | Click to see detail information about the declaration |  |
| 2 | View | Lable | Display general information about the declaration |  |
| 3 | Click | Button | Click to see another declaration |  |
| 4 | Click | Button | Click to report site errors |  |

### Detail Declaration



**Figure 3.** UI of Detail Declaration

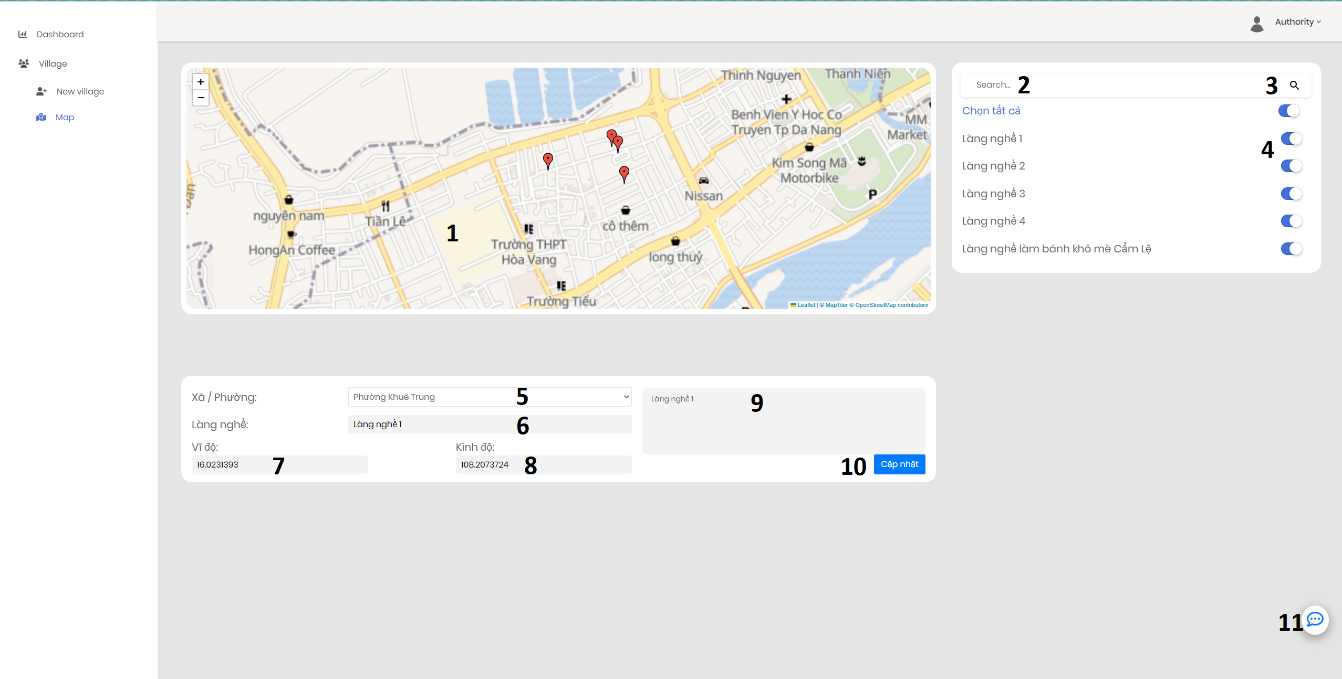


**Figure 4.** UI of Detail Declaration

**Table 6.** Elements of UI Detail Declaration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | Condition | Control Type | Target | Notes |
| 1 | View | Lable | Display detailed information about the production of the craft village |  |
| 2 | Click | Button | Click to close detailed information |  |

### Pollution Craft Village Map Data Page



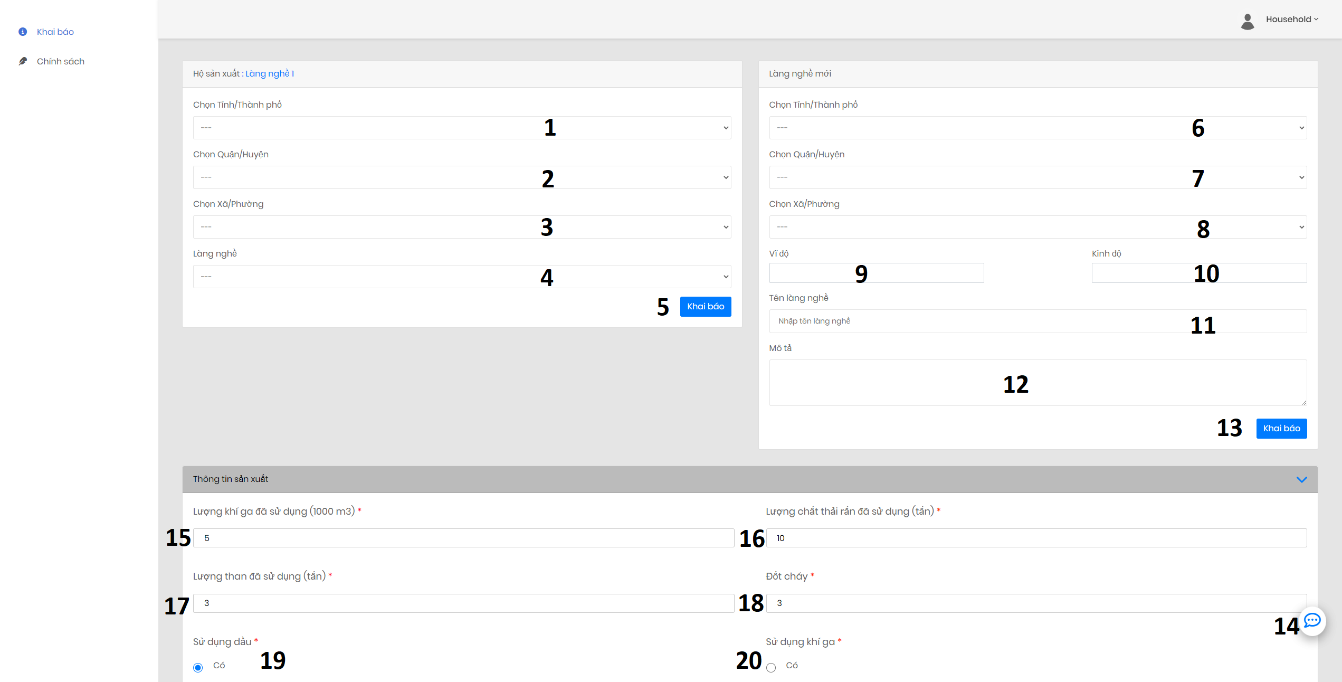
**Figure 5.** UI of Pollution Craft Village Map Data Page

**Table 7.** Elements of UI Pollution Craft Village Map Data Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | Condition | Control Type | Target | Notes |
| 1 | View | Map | Display the polluted craft villages |  |
| 2 | Input | Textbox | Enter the name of craft village |  |
| 3 | Click | Button | Click to view the location of craft village |  |
| 4 | Click | Button | Click to display or not display the location of the craft village on the map |  |
| 5 | Click | DropDownList | Click to select ward of village |  |
| 6 | Input | Textbox | Enter the name of village |  |
| 7 | Input | Textbox | Enter latitude |  |
| 8 | Input | Textbox | Enter longitude |  |
| 9 | View | Texbox | Display the name of village |  |
| 10 | Click | Button | Click to update information about village |  |
| 11 | Click | Button | Click to report site errors |  |

## Household

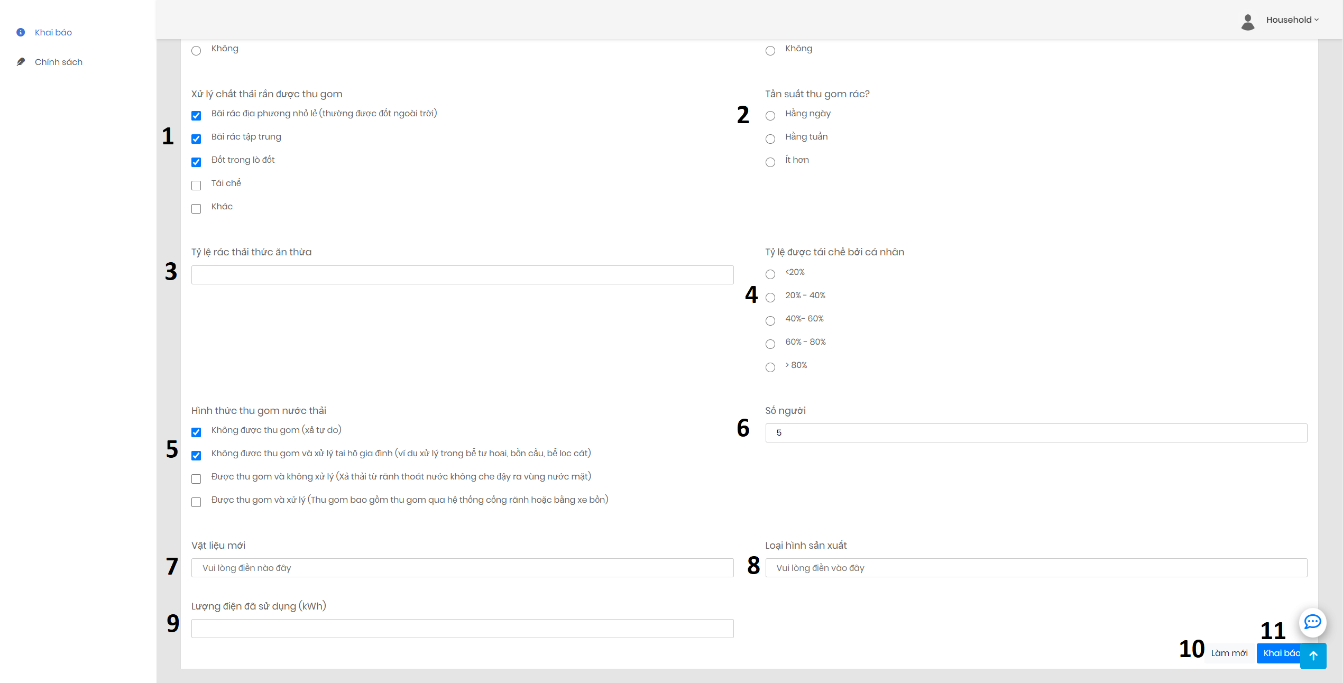
### Survey Page

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**Figure 6.** UI of Survey Page

**Table 8.** Elements of UI Survey Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | Condition | Control Type | Target | Notes |
| 1 | Click | DropDownList | Click to select province/city |  |
| 2 | Click | DropDownList | Click to select district |  |
| 3 | Click | DropDownList | Click to select ward |  |
| 4 | Click | DropDownList | Click to select village |  |
| 5 | Click | Button | Click to declare a new craft village |  |
| 6 | Click | DropDownList | Click to select province/city |  |
| 7 | Click | DropDownList | Click to select district |  |
| 8 | Click | DropDownList | Click to select ward |  |
| 9 | Input | Textbox | Enter the latitude |  |
| 10 | Input | Textbox | Enter the longitude |  |
| 11 | Input | Textbox | Enter the name of village |  |
| 12 | Input | Textbox | Enter a description of the craft village |  |
| 13 | Click | Button | Click to declare a new craft village |  |
| 14 | Click | Button | Click to report site errors |  |
| 15 | Input | Textbox | Enter amount of gas used |  |
| 16 | Input | Textbox | Enter amount of solid waste used |  |
| 17 | Input | Textbox | Enter amount of coal used |  |
| 18 | Input | Textbox | Enter amount of combustion used |  |
| 19 | Click | Radio Button | Click to declare whether to use oil or not |  |
| 20 | Click | Radio Button | Click to declare whether to use gas or not |  |

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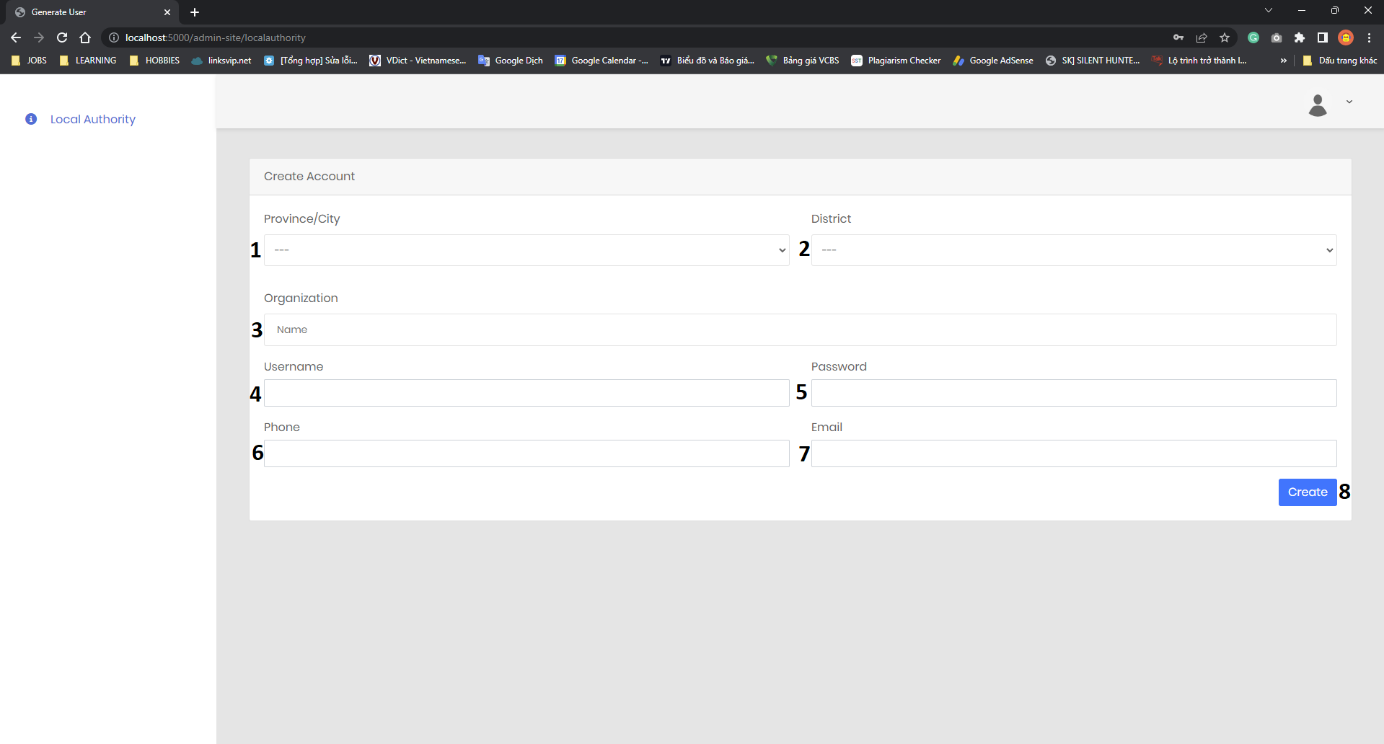
**Figure 7.** UI of Survey Page

**Table 9.** Elements of UI Survey Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | Condition | Control Type | Target | Notes |
| 1 | Click | Check Box | Click to choose how to collect solid waste |  |
| 2 | Click | Radio Button | Click to select solid waste collection frequency |  |
| 3 | Input | Textbox | Click to rate of food waste |  |
| 4 | Click | Radio Button | Click to select village |  |
| 5 | Click | Check Box | Click to declare a new craft village |  |
| 6 | Input | Textbox | Enter the longtitude |  |
| 7 | Input | Textbox | Enter the latitude |  |
| 8 | Input | Textbox | Enter the name of village |  |
| 9 | Input | Textbox | Enter a description of the craft village |  |
| 10 | Click | Button | Click to refresh the information just filled |  |
| 11 | Click | Button | Click to declare detail information |  |

## Admin

### Create New Local Authority Page



**Figure 8.** UI of Create New Local Authority Page

**Table 10.** Elements of UI Create New Local Authority Page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| From | Condition | Control Type | Target | Notes |
| 1 | Click | DropDownList | Click to select province/city |  |
| 2 | Click | DropDownList | Click to select district |  |
| 3 | Input | Textbox | Enter the name of organization |  |
| 4 | Input | Textbox | Enter the email address |  |
| 5 | Input | Textbox | Enter the phone number |  |
| 6 | Click | Button | Click to create a new local authority |  |
| 7 | Click | Check Box | Click to select the questions that the household is asked to answer |  |
| 8 | Scroll | Scroll Bar | Scroll to select question |  |
| 9 | Click | Button | Click to save the questionnaire |  |
| 10 | Click | Button | Click to download dataset to train AI |  |