

Capstone Project 2

CMU-SE 451

User Interface Design Document

Version 2.2 Date: 13/04/2023

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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DOCUMENT NAME

D	Oocument Title	User Interface Design Document		
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	Date	13/04/2023	File C2SE.01_CVPMS_User-Interface-Design Document_v2.2.docx	

REVISION HISTORY

Version	Date	Comments	Author	Approval
1.0	18/09/2022	Create Document	Nguyen Thanh Trung	Ng/Rel
1.1	05/10/2022	Update Document (Survey page)	Nguyen Thanh Trung	14/14/
1.2	22/10/2022	Create survey system (Survey page, Register page)	Nguyen Thanh Trung	14/18/
1.3	08/11/2022	Create survey system (Survey page, Homepage)	Nguyen Thanh Trung	Ng/RL
2.0	14/03/2023	Create Document	Nguyen Thanh Trung	Ng/Rel
2.1	29/03/2023	Update Document (Household, Local Authority, Admin)	Nguyen Thanh Trung	Ng/Rol
2.2	13/04/2023	Update Document (Map, view survey, Edit layout,etc)	Nguyen Thanh Trung	Ng/BL

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1. Introduction

1.1. 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.

1.2. Scope

- ➤ Overview of the stages and modules of the system.
- > Create complete interfaces and describe them clearly.

2. List of User Interface

2.1. 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

2.2. 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

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2.3.Admin

 Table 3. List of Admin User Interface

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

3. Describe the User Interface

3.1.Local Authority

3.1.1. Local Authority Home Page

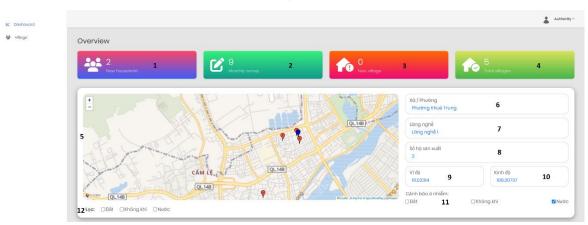


Figure 1. UI of Local Authority Home Page

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	

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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

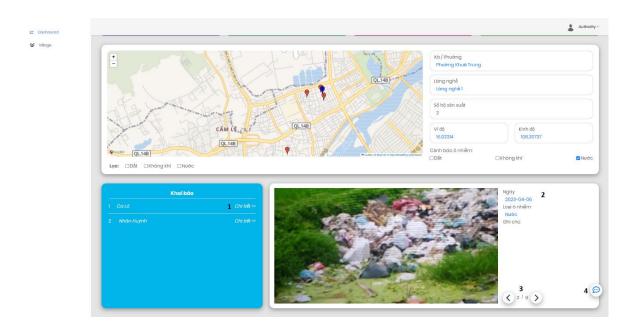


Figure 2. UI of Local Authority Home Page Below

 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	

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3.1.2. Detail Declaration

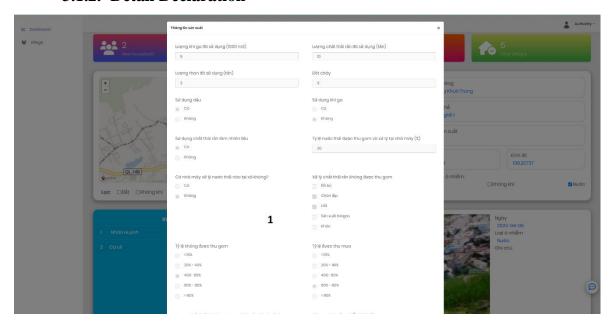


Figure 3. UI of Detail Declaration

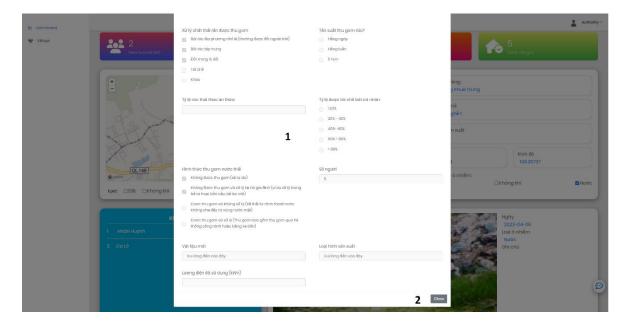


Figure 4. UI of Detail Declaration

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	

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3.1.3. 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	

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3.2. Household

3.2.1. Survey Page

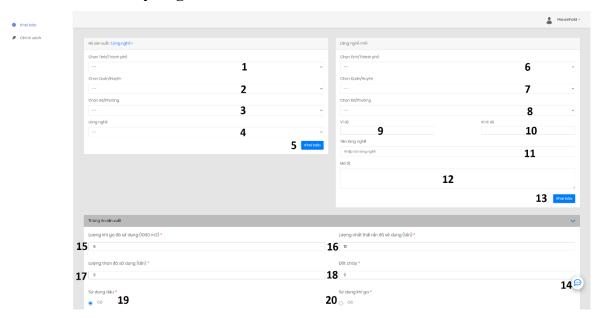


Figure 6. UI of Survey Page

 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	

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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

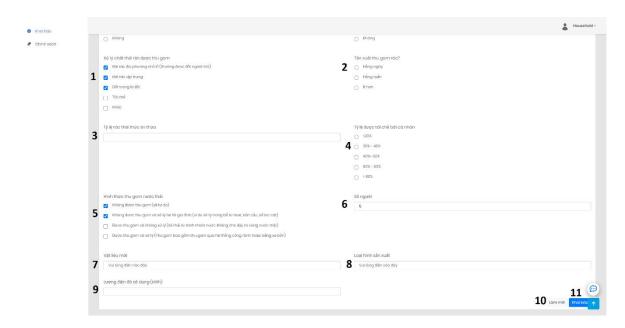


Figure 7. UI of Survey Page

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	

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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

3.3. Admin

3.3.1. Create New Local Authority Page

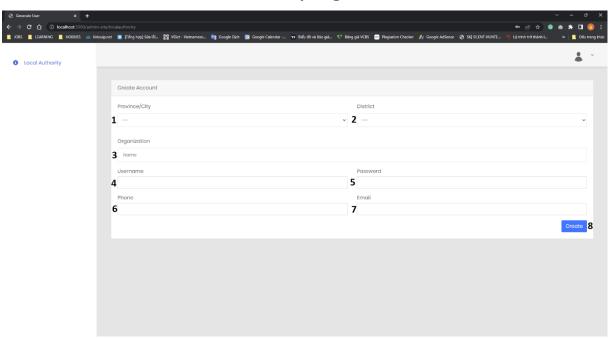


Figure 8. UI of Create New Local Authority Page

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	

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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

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