



Politecnico di Milano

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Geoinformatics Engineering
Software Engineering for Geoinformatics Project

iUrban

Test Plan

version 3.0 - 07/06/2021

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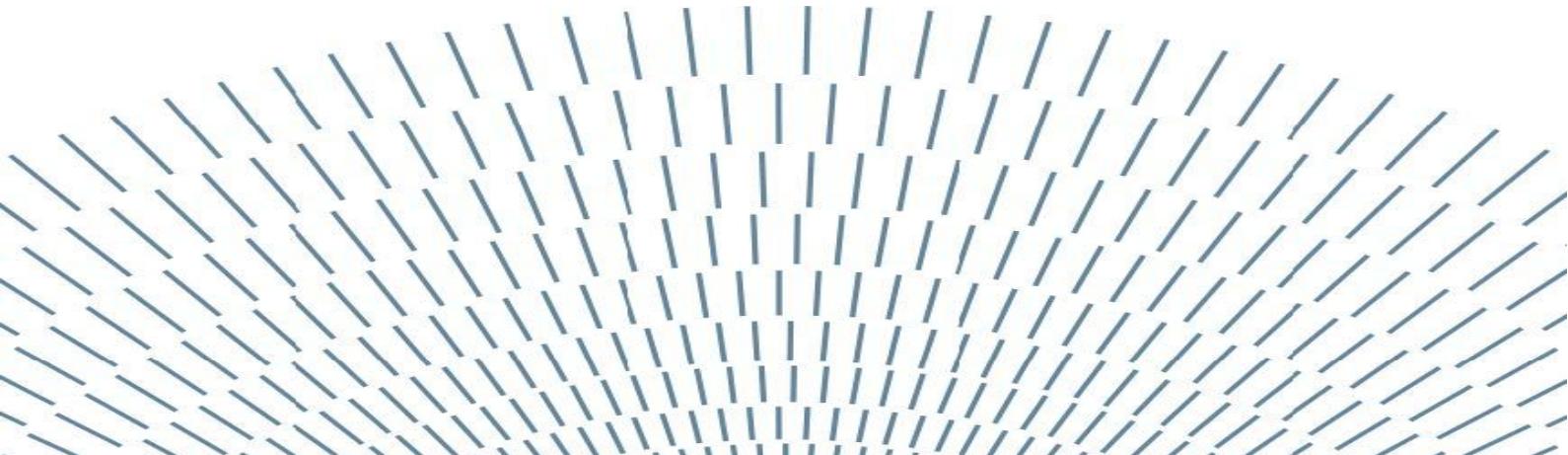
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Section 1 - Purpose

The Purpose of the Test Plan Document is to Test and Verify All the Use Cases of the system and to make sure that everything is working fine so that when the App is released it works properly without any Errors arising.

Section 2 - Visitor Who is not Registered

2.1 View the Web Application

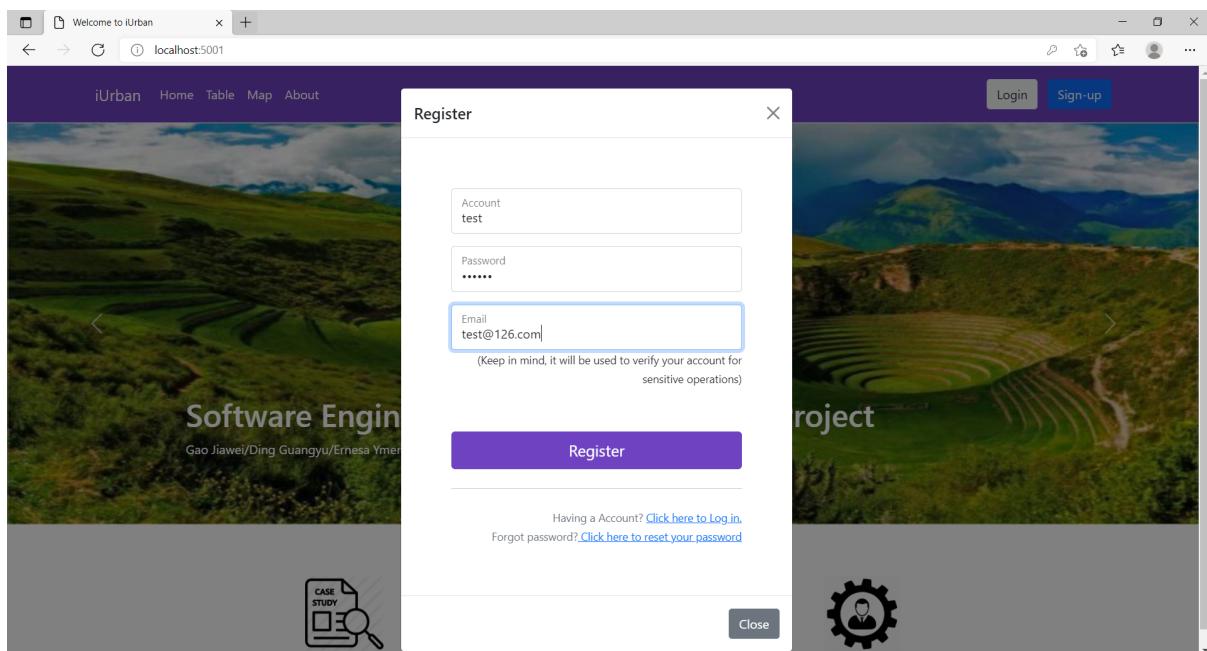
Reference use case identifier	4.1.0 Open the iUrban Application
Test case identifier	2.1
Input	http://127.0.0.1:5001
Initial state	Home Page
Expected results	It is available to see Home Page of the Website
Errors	If the visitor can not reach this page, it means this application is not started on the server
Test Result	successful



2.2 Register

Reference use case identifier	4.1.1 Register a user account
Test case identifier	2.2

Input	The User enters the parameters in the Account Box, Password Box and E-mail to register himself into the iUrban App
Initial state	Home Page - Register Panel
Expected resultst	It is available to see Home Page of the Website
Errors	If the Account already exist, the iUrban App shows “This account is already Registered”
Test Result	successful

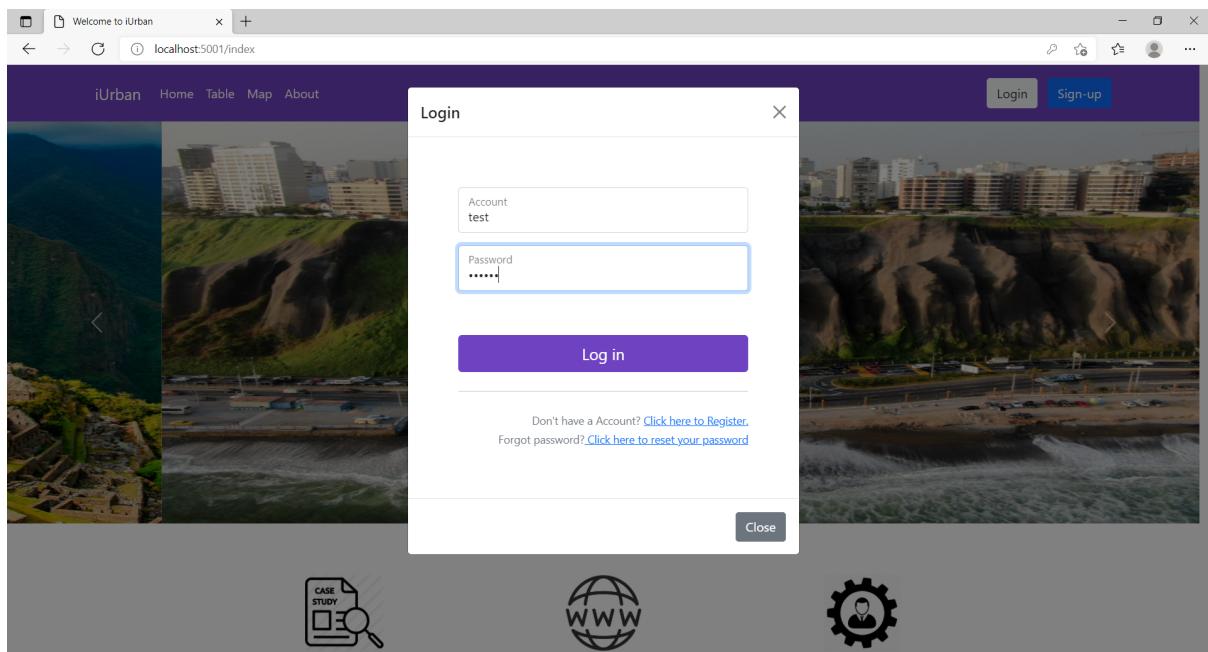


Section 3 - User who is Registered

3.1 Login

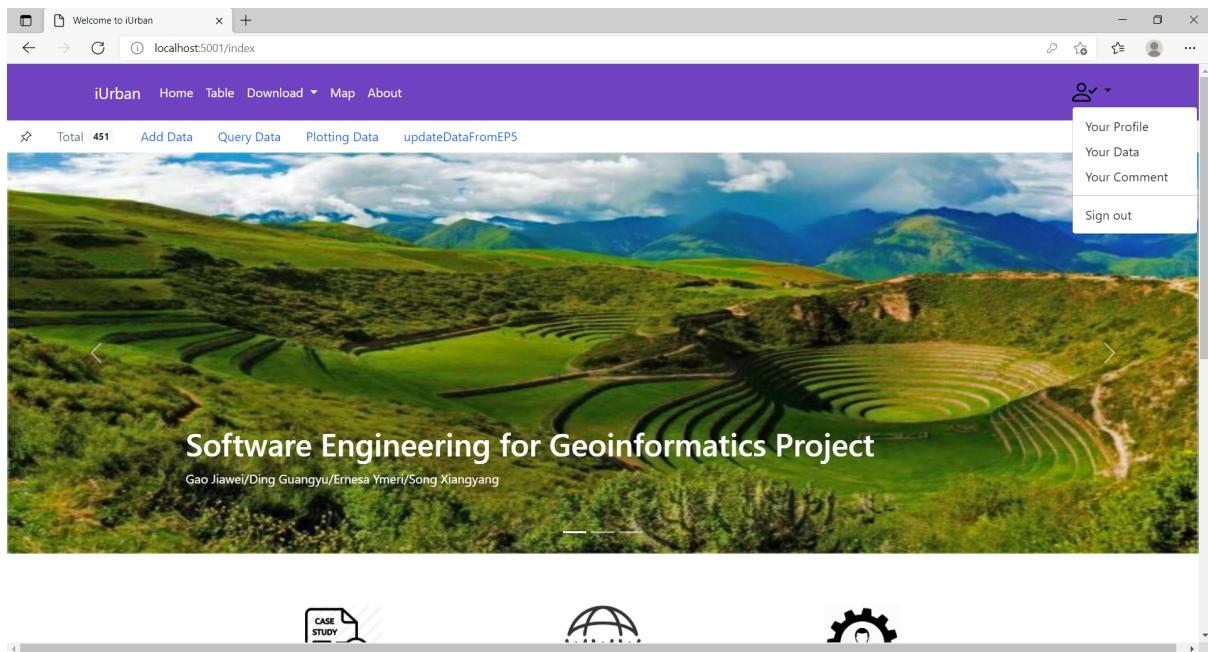
Reference use case identifier	4.1.2 Login
Test case identifier	3.1
Input	The user enters the parameters in the Account Box and Password Box. The user clicks the “Confirm” button to login himself into the iUrban App
Initial state	Login Panel

Expected resultst	User enters the home page. The system messages the successful information in the upper right corner of the home page
Errors	If either the account or password is wrong the Web app shows Incorrect username or incorrect password corresponding to the data
Test Result	successful



3.2 Logout

Reference use case identifier	4.1.3 Logout
Test case identifier	3.2
Input	The user clicks on “Logout” and their session is terminated.
Initial state	Logout panel
Expected results	The user exits the main page. The system returns them to the main page giving them the opportunity to log in again
Errors	NULL
Test Result	successful



3.3 Query Environmental Data by Filter fields

Reference use case identifier	4.1.4 Query Data by Filter Fields
Test case identifier	3.3
Input	The user inputs the key words into the search box.
Initial state	Table Page
Expected results	The table shows the filter result.
Errors	NULL
Test Result	successful

View	Edit	Delete	Data_id	Author_id	Created Date	Name	Date	Time	latitude	longitude	Average noise level	Aver. light inter	Comment
View	Edit	Delete	1	1	2020-11-13 13:35:54.773000	Francesca Ventura	30/10/2020	15:30:00	-12.099268	-77.045183	53	1433	View
View	Edit	Delete	2	1	2020-11-13 13:34:31.681000	Francesca Ventura	19/10/2020	15:30:00	-12.099268	-77.045183	52	1613	View
View	Edit	Delete	47	1	2020-11-08 02:24:27.021000	Francesca Ventura	06/11/2020	15:30:00	-12.099268	-77.045183	52	1433	View
View	Edit	Delete	61	1	2020-11-06 14:59:39.811000	Francesca Ventura	06/11/2020	08:30:00	-12.099268	-77.045183	54	1422	View

3.4 Query Environmental Data by Range

Reference use case identifier	4.1.5 Query Data by Range
Test case identifier	3.4
Input	The user selects the query title and the condition. The user inputs the parameter into the box and presses the “Query” button.
Initial state	Table Page
Expected results	The table page shows the query result.
Errors	The user does not select and input the parameters. The system shows the error message..
Test Result	successful

View	Edit	Delete	Data_id	Author_id	Created Date	Name	Date	Time	latitude	longitude	Average noise level	Aver light inter	Comment
View	Edit	Delete	1	1	2020-11-13 13:55:47.773000	Francesca Ventura	30/10/2020	15:30:00	-12.099268	-77.045183	53	1433	View
View	Edit	Delete	16	1	2020-11-12 00:48:13.965000	Constanza Guerinoni Entry 6 (8:30)	23/10/2020	08:30:00	-12.095353	-77.044338	53	4200	View
View	Edit	Delete	55	1	2020-11-06 23:40:43.437000	Eileen Manning	06/11/2020	15:30:00	-12.110523	-77.034875	53	42311	View

3.5 Update Data

Reference use case identifier	4.1.6 Update Environmental Data
Test case identifier	3.5
Input	The user clicks the “Update” button or the users clicks the “Add Data”, the page goes to the “Add” page. The user inputs all the mandatory parameters and clicks the “Confirm” button.
Initial state	The user has logged in
Expected results	The system shows the successful message and redirects to the table page.
Errors	The user does not input all the mandatory parameters. There is something wrong with the data type. The user can not update the data.
Test Result	successful

The screenshot shows a web-based application interface for managing environmental data. At the top, there's a purple header bar with the text "iUrban Environmental Data Since 2020". Below the header, there are three search/filter input fields: "Select the title" (Data_id dropdown), "Select the condition" (operator dropdown), and "Select the parameter" (empty text input). To the right of these is a blue "Query" button. Below the search area is a table with the following data:

View	Edit	Delete	Data_id	Author_id	Created Date	Name	Date	Time	latitude	longitude	Average noise level	Aver light inter	Comment
View	Edit	Delete	1	1	2020-11-13 13:35:54.773000	Francesca Ventura	30/10/2020	15:30:00	-12.099268	-77.045183	53	1433	View
View	Edit	Delete	2	1	2020-11-13 13:34:31.681000	Francesca Ventura	19/10/2020	15:30:00	-12.099268	-77.045183	52	1613	View
View	Edit	Delete	3	1	2020-11-12 01:13:56.992000	Constanza Guerinoni Entry 12 (3:30)	06/11/2020	15:30:00	-12.095244	-77.044629	64	8234	View

3.6 Delete Data

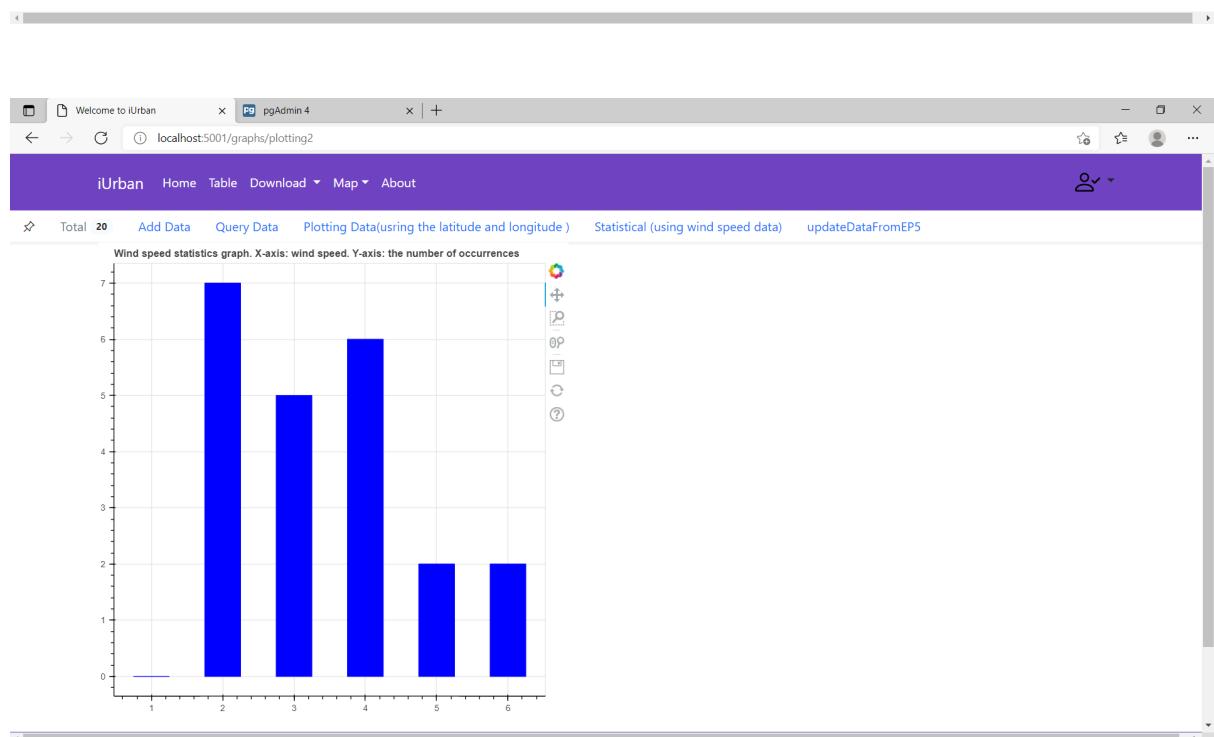
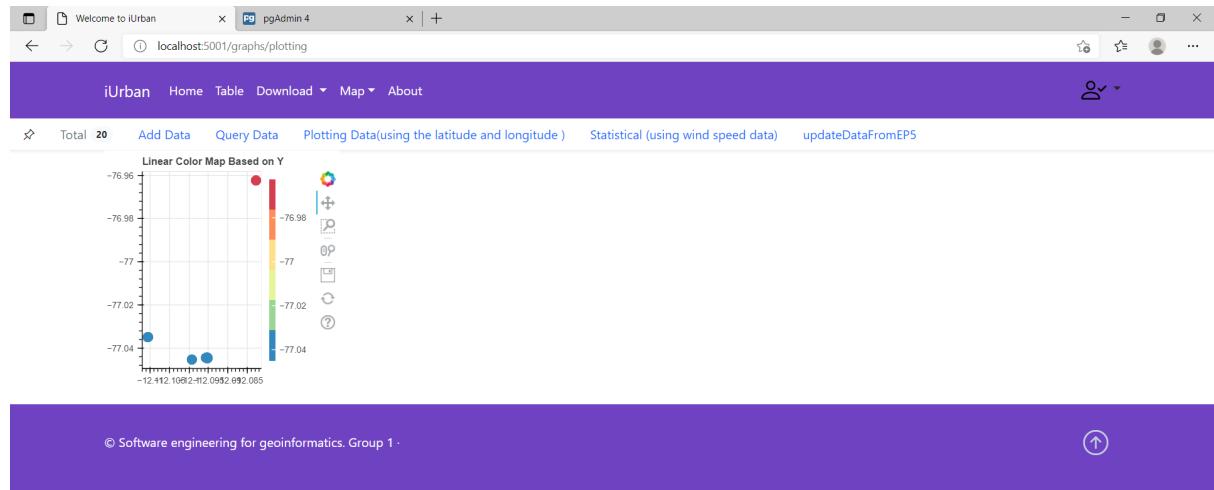
Reference use case identifier	4.1.7 Delete Data
Test case identifier	3.6
Input	The user clicks the “Delete” button.
Initial state	The user has logged in.
Expected results	The user deletes the data successfully and the page refreshes.
Errors	The user does login. The user can not delete.
Test Result	successful

View	Edit	Delete	Data_id	Author_id	Created Date	Name	Date	Time	latitude	longitude	Average noise level	Aver light inter	Comment
View	Edit	Delete	2	1	2020-11-13 13:34:31.681000	Francesca Ventura	19/10/2020	15:30:00	-12.099268	-77.045183	52	1613	View
View	Edit	Delete	3	1	2020-11-12 01:13:56.992000	Constanza Guerinoni Entry 12 (3:30)	06/11/2020	15:30:00	-12.095244	-77.044629	64	8234	View
View	Edit	Delete	4	1	2020-11-12 01:12:01.175000	Constanza Guerinoni Entry 12	06/11/2020	08:30:00	-12.095242	-77.044353	52	4300	View

3.7 Plotting Data

Reference use case identifier	4.1.8 Plotting Data
Test case identifier	3.7
Input	The user clicks the “Plotting” button and go to the plotting page.
Initial state	The user has logged in. The user goes to the Plotting page.
Expected results	The Plotting page shows the charts successfully.
Errors	The user did not login and redirects to the Login page.
Test Result	successful

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3.8 Download Data

Reference use case identifier	4.1.9 Download Data
Test case identifier	3.8
Input	The user clicks the “csv” or “json” button to download the environmental data in the Table page.
Initial state	Table Page

Expected results	Download successfully
Errors	NULL
Test Result	successful

View	Edit	Delete	Data_id	Author_id	Created Date	Name	Date	Time	latitude	longitude	Average noise level	Aver light inter	Comment
View	Edit	Delete	2	1	2020-11-13 13:34:31.681000	Francesca Ventura	19/10/2020	15:30:00	-12.099268	-77.045183	52	1613	View
View	Edit	Delete	3	1	2020-11-12 01:13:56.992000	Constanza Guerinoni Entry 12 (3:30)	06/11/2020	15:30:00	-12.095244	-77.044629	64	8234	View
View	Edit	Delete	4	1	2020-11-12 01:12:01.175000	Constanza Guerinoni Entry 12	06/11/2020	08:30:00	-12.095242	-77.044353	52	4300	View

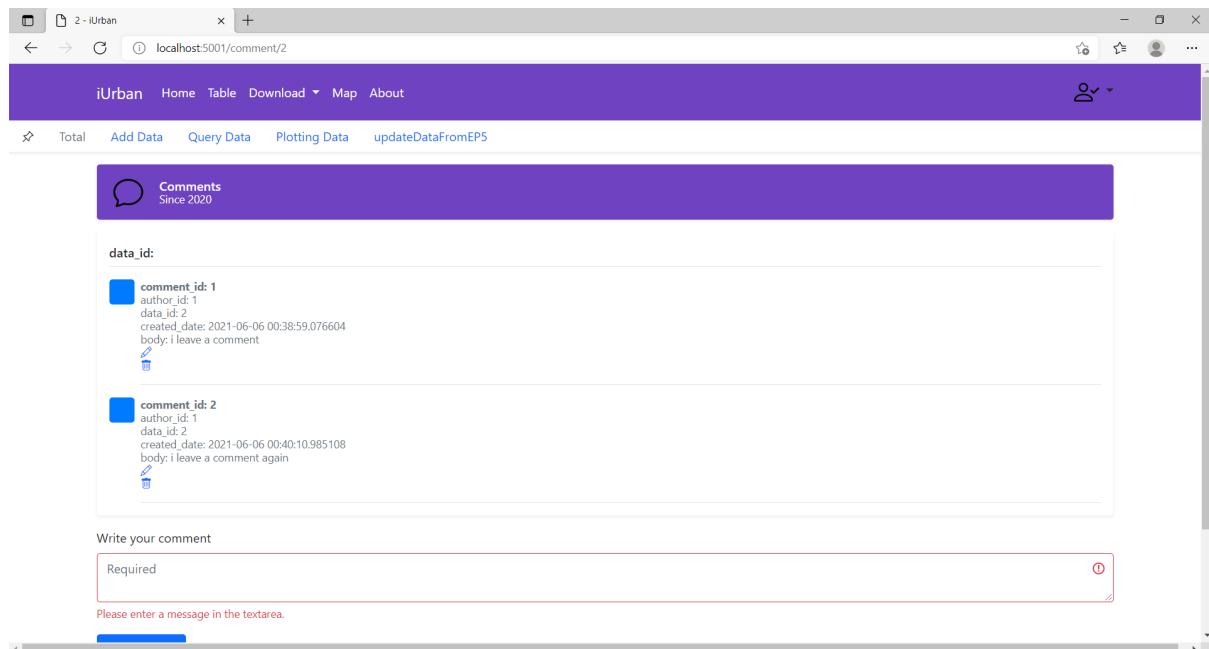
3.9 View comments

Reference use case identifier	User views comments in the Comment Page
Test case identifier	3.9
Input	The User go to the Table page and click on the "View" button in a row
Initial state	Comment Page
Expected resultst	Jump to the Comment page. It is available to see the comments in this page
Errors	Null
Test Result	successful

The screenshot shows a web browser window for the 'iUrban' application. The URL is 'localhost:5001/comment/2'. The page has a purple header with the 'iUrban' logo and navigation links: Home, Table, Download, Map, About. A user profile icon is in the top right. Below the header, there's a navigation bar with 'Total', 'Add Data', 'Query Data', 'Plotting Data', and 'updateDataFromEPS'. The main content area has a purple header 'Comments Since 2020'. It shows a comment entry for 'comment_id: 1' with details: 'author_id: 1', 'data_id: 2', 'created_date: 2021-06-06 00:38:59.076604', and 'body: i leave a comment'. Below this, there's a text area labeled 'Write your comment' with a placeholder 'Please enter a message in the textarea.' and a red-bordered 'Required' field indicator. A blue 'Submit form' button is at the bottom. The footer is purple with the text '© Software engineering for geoinformatics. Group 1.' and a small circular icon.

3.10 Leave a comment

Reference use case identifier	4.1.10 Leave Comments
Test case identifier	3.10
Input	The User input one comment in the comment box and click on the “Confirm” button
Initial state	The user has logged in and goes to the Comment Page
Expected resultst	The website reflash. It is available to see his comment in this page
Errors	<ul style="list-style-type: none"> 1. If the user does not login, the system will prevent users from leaving a comment 2. If the user does not input words in the comment box, the system will prevent users from clicking the “Confirm” button
Test Result	successful



3.11 Delete a comment

Reference use case identifier	4.1.12 User delete his comment in the Comment Page
Test case identifier	3.12
Input	The User chooses his comment and clicks on the “Delete” button
Initial state	Comment Page
Expected resultst	The website reflesh. It is available to see his comment has been deleted in this page
Errors	<ul style="list-style-type: none"> 1. If the user does not login, the system will prevent users from deleting his comment 2. If the user does not choose his comment, the system will prevent users from clicking the “Confirm” button
Test Result	successful

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The screenshot shows a web browser window with the URL `localhost:5001/comment/2`. The page has a purple header bar with the 'iUrban' logo, navigation links (Home, Table, Download, Map, About), and a user profile icon. Below the header is a navigation bar with links for Total, Add Data, Query Data, Plotting Data, and `updateDataFromEPS`. A purple sidebar on the left contains a 'Comments' section with a timestamp 'Since 2020'. The main content area displays a comment entry form. The 'data_id:' field contains a blue square icon and the text: 'comment id: 2', 'author_id: 1', 'data_id: 2', 'created_date: 2021-06-06 00:40:10.985108', and 'body: i leave a comment again'. Below this is a text area labeled 'Write your comment' with a placeholder 'Required' and a red error message 'Please enter a message in the textarea.' A blue 'Submit form' button is at the bottom. The footer is purple with the text '© Software engineering for geoinformatics. Group 1 ·' and a circular arrow icon.