

# Software Engineering for Geoinformatics Toot Donort

## **Test Report**

## Web-Based Geospatial Data Analysis Application on North Rupununi Wetland Guyana, South America

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#### 1 Purpose:

This document discripes the geoapp web application testing plan, regarding the impelmntation of the discriped functions in the rasd and design document. And presenting the evaluation of the testing process.

This is the web application documents and code on the github https://github.com/Ali-bader/RASD-G5

#### 2 Overview:

The testing procedure have been done for the geoapp web application functions which aims to provide data for the members about diffrenet aspects of the geospatial and statistecal data of the area of north Rupununi wetland Guyana.

#### 3 Testing scope:

Through out this document the testing of this functions have been done:

- 1\ login
- 2\ registeration
- 3\ add data
- 4\ add comment
- 5\ edit comment
- 6\ delete comment
- 7\ logout

#### 4 Out of scope:

The load test was not proformed.

#### 5 Metrics:

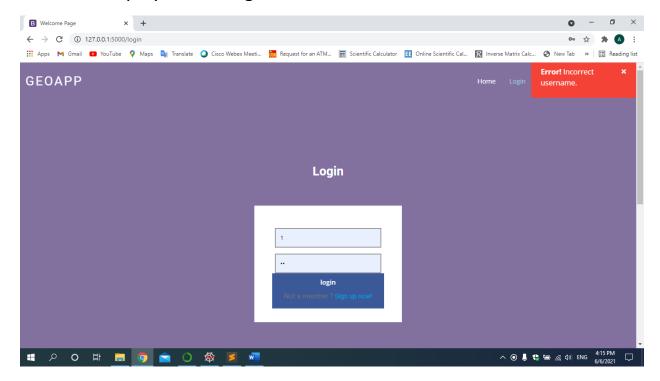
Test cases	Test cases	Test cases	Test cases failed
planned	executed	passed	
15	15	15	0

#### 6 Tested functions:

### **6.1** Login:

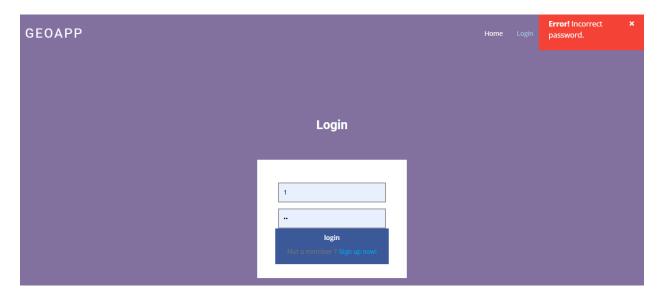
#### 6.1.1 Incorrect username:

If the member entered a username that is not in the database the software displays a massage "incorrect username"



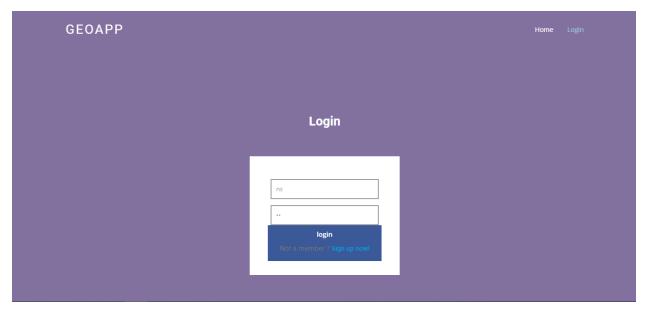
#### 6.1.2 Incorrect password:

If the member entered a password that is not in the database the software displays a massage "incorrect password"



#### 6.1.3 Correct username and password:

If the username and password entered by the member are correct the then the login is successful and the software redirects the member to the home page.

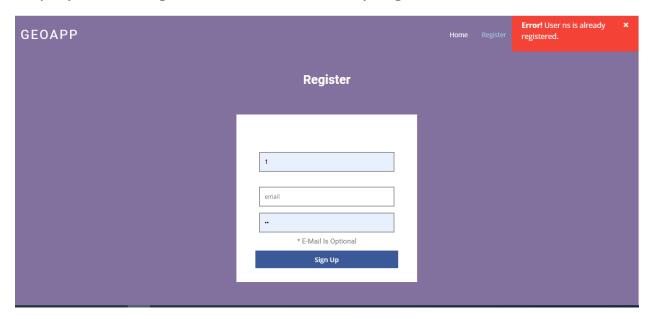




### 6.2 Registration:

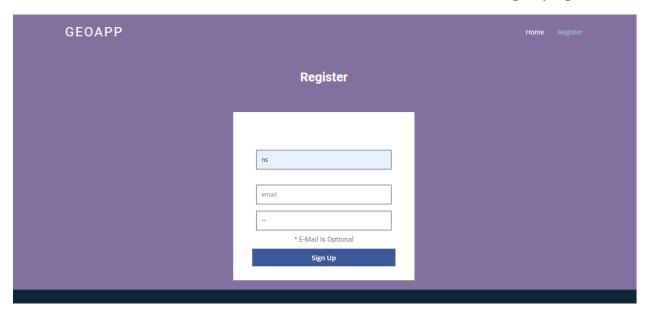
#### 6.2.1 Username already exists:

If the new user entered a username that is in the database the software displays a massage "user name is already registered".



### 6.2.2 registration successful:

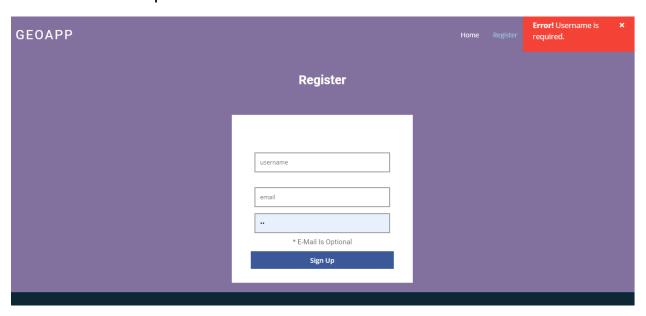
if the user enters a new username and password then the software saves the user ID and redirects the new member to the login page.





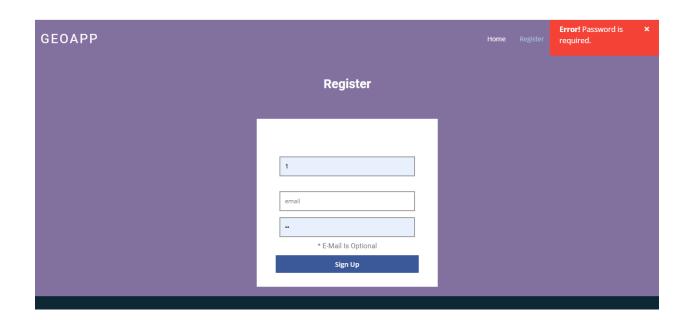
#### 6.2.3 Empty username field:

If the user does not enter a username the software displays a massage "username is required"



#### 6.2.4 Empty password field:

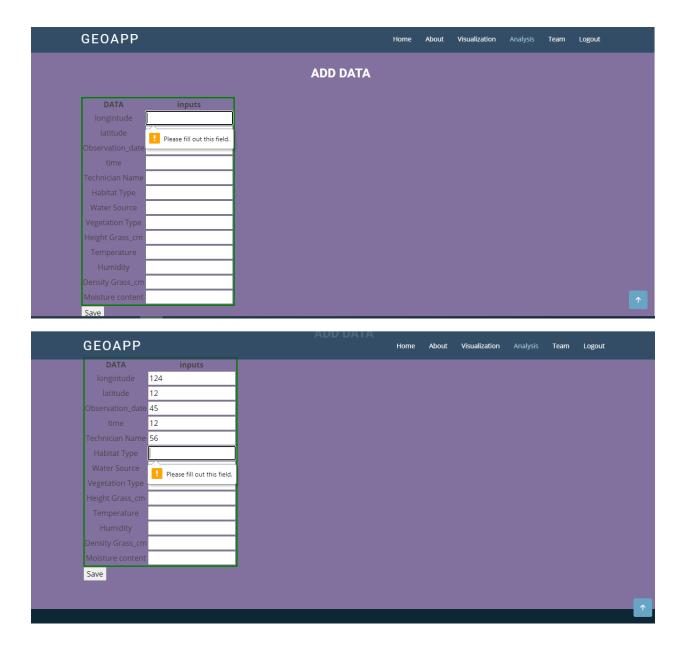
If the user does not enter a password the software displays a massage "password is required"

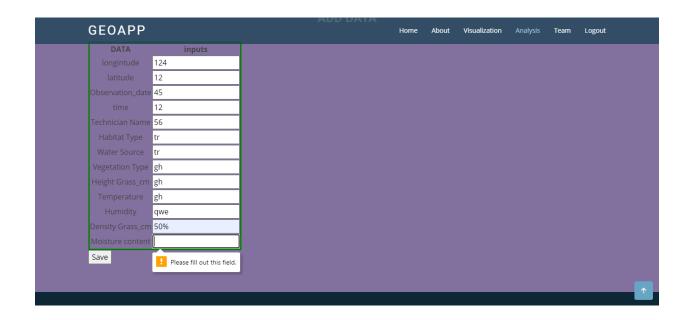


#### 6.3 Add data:

6.3.1 Empty field in (longitude, latitude, observation data, time, technician name, habitat type, water source, vegetation type, height grass cm, temperature, humidity, density grass cm, moisture content)

If the member does not enter a field of one of the data the software displays "please fill out this field".

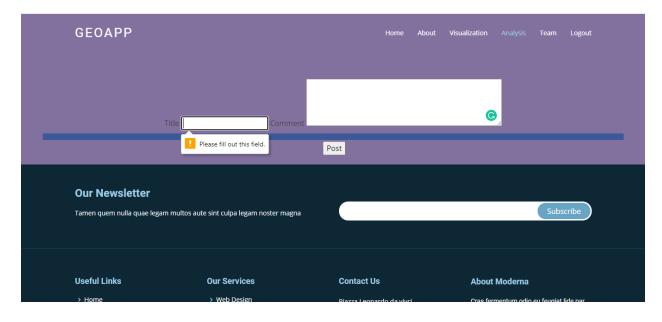




#### 6.4 Add comment:

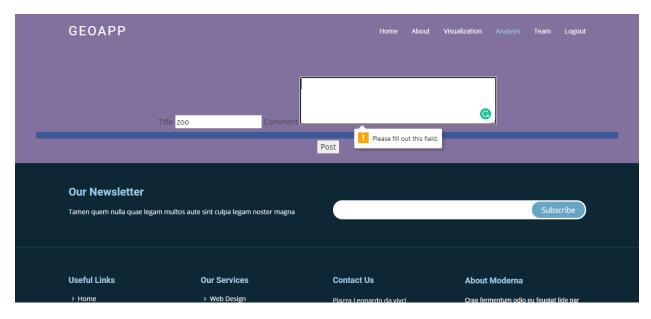
#### 6.4.1 Empty field in title:

If the member does not enter a title the software displays "please fill out this field"



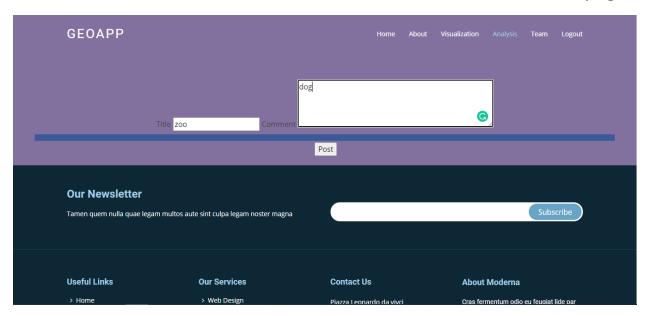
#### 6.4.2 Empty field in the comment body:

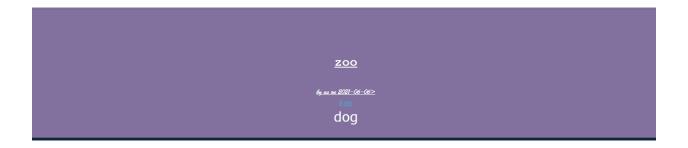
If the member does not enter a body the software displays "please fill out this field"



#### 6.4.3 Comment add successfuly:

If the member enters a title and a body the software saves the comment to the database and redirects the member to comment page.

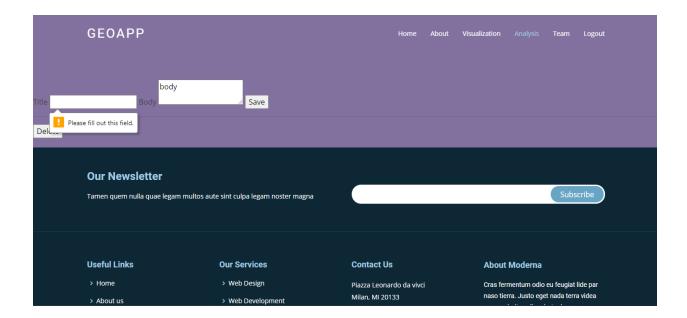




#### 6.5 edit comment:

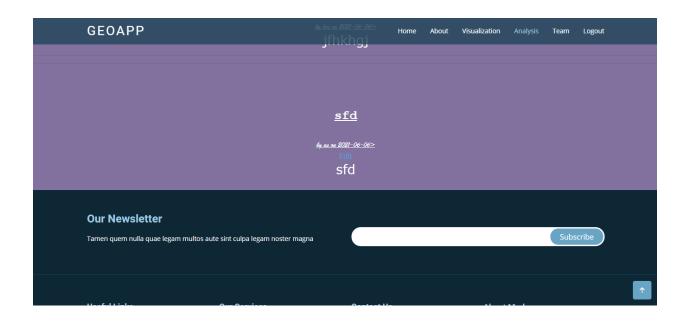
### 6.5.1 Empty field in title:

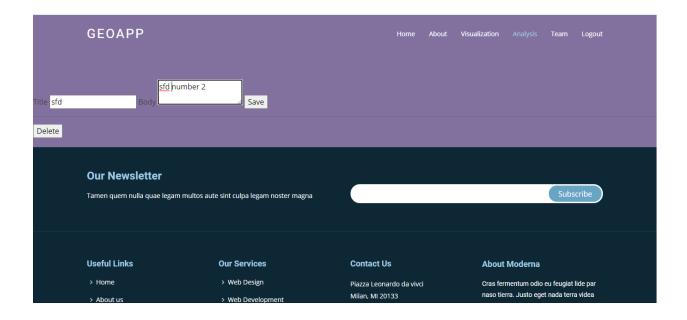
If the member does not enter a title the software displays "please fill out this field"



### 6.5.2 comment edited successfully:

If the member enters a title and a body the software saves the edit of the comment to the database and redirects the member to comment page.



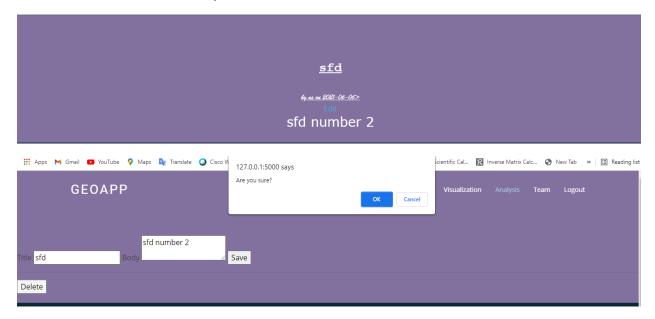


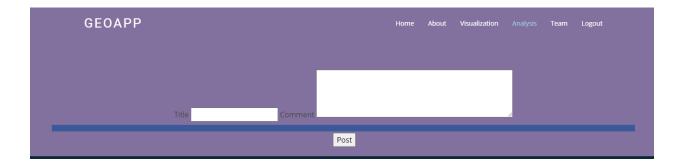


#### 6.6 Delete comment:

#### 6.6.1 Comment deleted successfully:

If the member pushes the delete button from the edit page the software confirms the procedure and then deletes the comment.

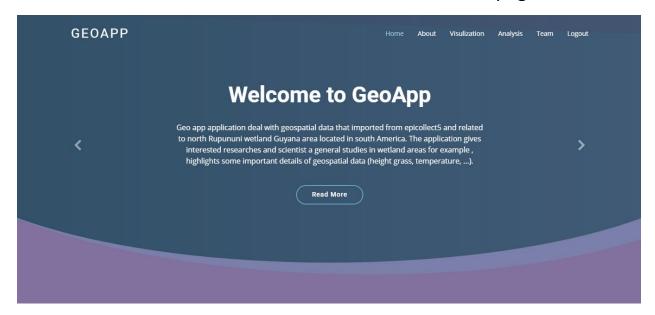




### 6.7 logout:

#### 6.7.1 Logout done successfully:

If the member pushes the logout button the software closes the session of the member and redirects the member to the home page.





### 7 Type of testing performed:

This test was preformed using a manual method of the unit testing approach.

#### 8 Testing tools:

Application URL	Application server	Database
http://127.0.0.1:5000/	WSGI	PostgreSQL

## 9 Test plan result:

Test case		Result
Login		
	Incorrect username	Success
	Incorrect password	Success
	Correct username and	Success
	password	
Registration		
	Username already	Success
	exists	
	Registration	Success
	successful	
	Empty username field	Success
	Empty password field	Success
Add data		
	Empty field	Success
Add comment		
	Empty field in title	Success
	Empty field in the	Success
	comment body	
	Comment add	Success
	successfully	
Edit comment		
	Empty field in title	Success
	Comment edited	Success
	successfully	
Delete comment		
	Comment deleted	Success
	successfully	
Logout		
	Logout done	Success
	successfully	

## 10Effort:

Ali B. Mohmmed	2 hours
Hussamalden M.Shereif	2 hours
Mazin A. Saeed	2 hours
Nizar O. Fadl Elseed	2 hours
Nshwan A. Khairalla	2 hours