PORTFOLIO

Implementation Kuantan Flood Information Management Portal

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INTRODUCTION

The purpose of chapter implementation will be discuss more details of the development for Kuantan Flood Information Management Portal. The project using the Rapid Application Development method, this may shorten the development time which is take around 4 to 5 months. The process of implementation of Kuantan Flood Information Management Portal that including the code for the system in every function for this project and flow on how the Portal system works. The testing process and techniques also will be discussed in this chapter for Kuantan Flood Information Management Portal in implementation process. Furthermore, discussion on the result of finding based on testing process on several test case where the process test the functionality of the Portal system based on the specification. The functionality of the Portal system will be testing and acceptance testing will be used in the chapter to test the system. In this chapter, all design interfaces, development, tools and technology of Portal flow will be discussed further based on the implementation in more details.

IMPLEMENTATION

This section, it will be discuss about the implementation of all task from the first implementation until the testing process. Developing this system will start installing tools Adobe Dreamweaver CC2018 that directly provide interface design of Portal directly after implement the code. Language using in implement the Portal system is PHP, CSS, Java and HTML code. Then, in order to store data for the Portal system will be using tools XAMPP Control Panel. Lastly, the main part of this portal system is development environment where it has been set up the configuration to become localhost of the system.

DEVELOPMENT ENVIRONMENT

To create a functional system of Kuantan Flood Information Management Portal, the most important part is to set up the computer to become a localhost server. XAMPP localhost is chosen to be the web server as it is free source application that stands for Cross-Platform(X), Apache (A), MariaBD (M), PHP (P) and Perl (P). XAMPP also easy to install and support PHP. Database server for this project using phpMyAdmin.

Figure 4.1 show the XAMPP control panel window that can run the server. Module apache and MySQL must allow to start to run the server. This two module will be switch on because MySQL module is the database for this Portal system.

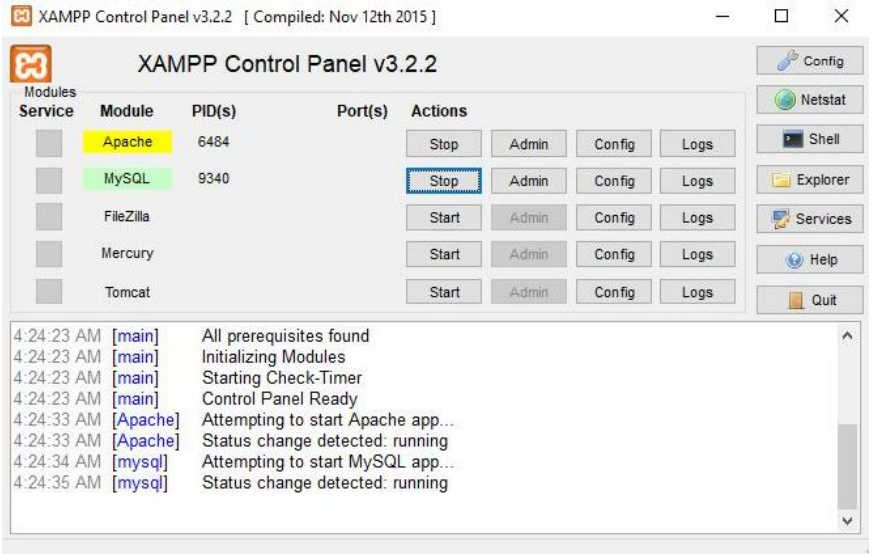

Figure 1 XAMPP Control Panel

The challenging part was connection with phpMyAdmin and Dreamweaver that need connect the localhost with portal site that show in figure 4.2.Then, the problems solved by found the solution from YouTube as references because Dreamweaver is first experience using this tools. Files that store Portal site need connect with localhost in Dreamweaver server. Files that related with Portal system will locate in htdocs folder, will allow the system that directly connect with web server.

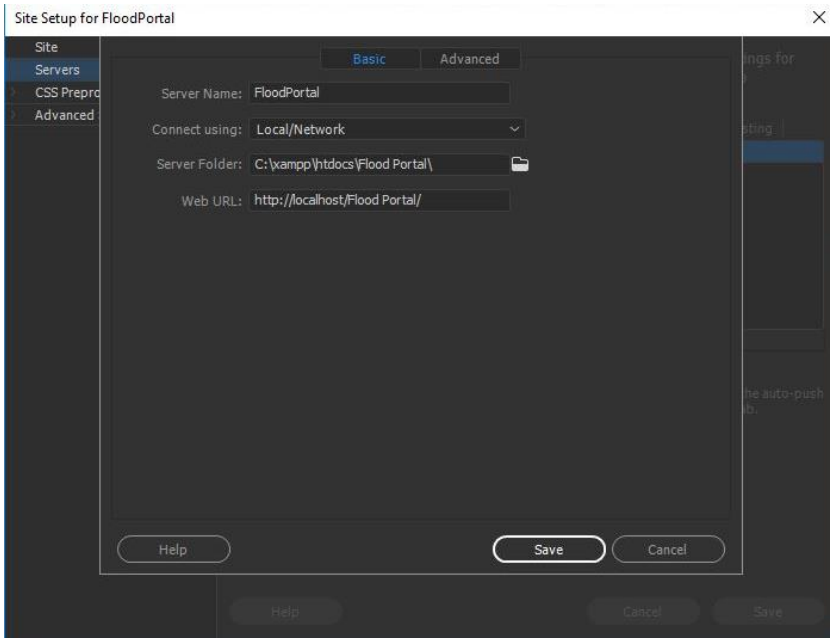

Figure 2 Site Setup for Kuantan Flood Information Portal connection server.

Figure 3 below show the phpMyAdmin working environment. Database name and table must be set up in order to create database connection. The database name be set up into any name and table in database can be set as many as function of the system that need to use. The connection Dreamweaver and database must stay connected before inserting any data into database table.

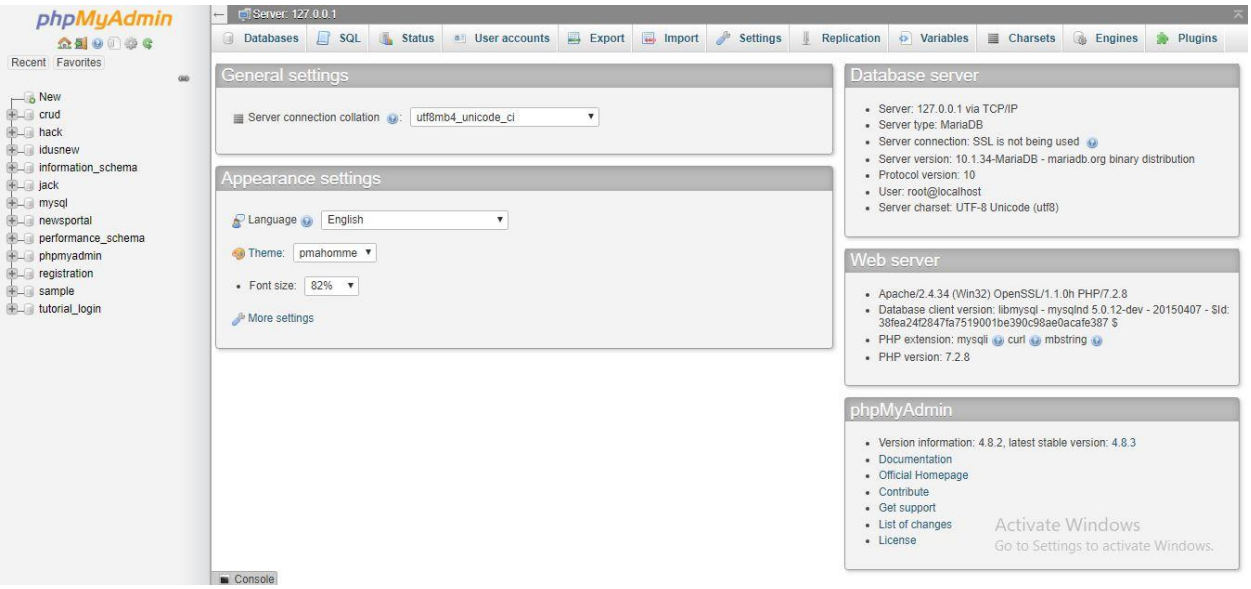

Figure 3 PhpMyAdmin Working Environment

Figure 4 above shows the way address name the Portal system after make function in the code. The address name can be running on the browser by typing address name "localhost/KuantanFloodInfoPortal/Portal/admin/index.php" and right click on the open the browser that provide in Dreamweaver can choose either to open in Google Chrome, Mozilla Firefox or Internet Explorer. Admin login from my first developed, there just display text error message only, after try another method code will popup error messagei, if username or password wrong after user login. Then, popup message be able display in my admin login site.

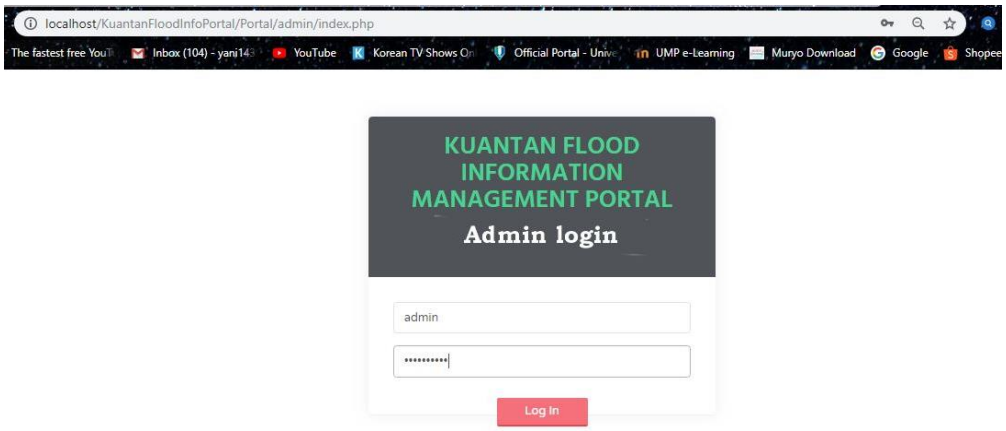

Figure 4 Address Name on the Running Server

Figure 5 above show connection database in PHP code to let information to store in database can connect with the server. The database application used for Kuantan Flood Information Management Portal is phpMyAdmin which the name given for database used is KuantanFloodPortal.

```php
<?php
define('DB_SERVER','localhost');
define('DB_USER','root');
define('DB_PASS' ,'');
define('DB_NAME','KuantanFloodPortal');
$con = mysqli_connect(DB_SERVER,DB_USER,DB_PASS,DB_NAME);
// Check connection
if (mysqli_connect_errno())
{
 echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
?>
```

Figure 5 Configuration database connection

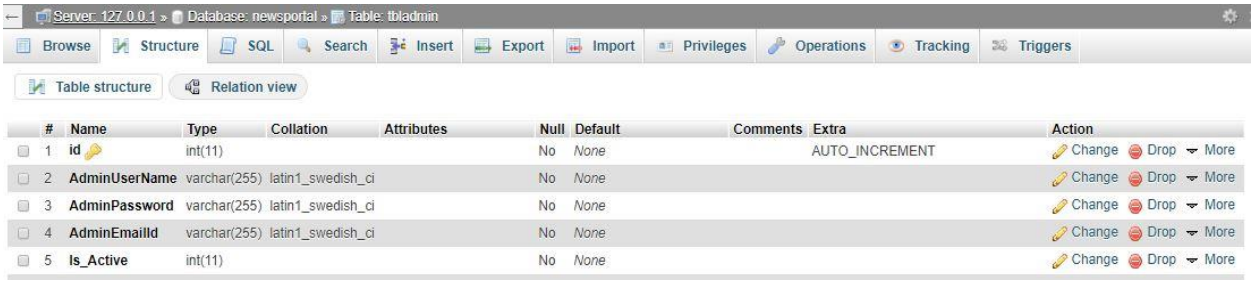

Figure 6 Administrator Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	CategoryName	varchar(200)	latin1_swedish_ci		No	None			Change Drop More
3	Description	mediumtext	latin1_swedish_ci		No	None			Change Drop More
4	PostingDate	timestamp			No	CURRENT_TIMESTAMP			Change Drop More
5	UpdationDate	timestamp		on update CURRENT_TIMESTAMP	Yes	0000-00-00 00:00:00		ON UPDATE CURRENT_TIMESTAMP	Change Drop More
6	Is_Active	int(1)			No	None			Change Drop More

Figure 7 Category Table

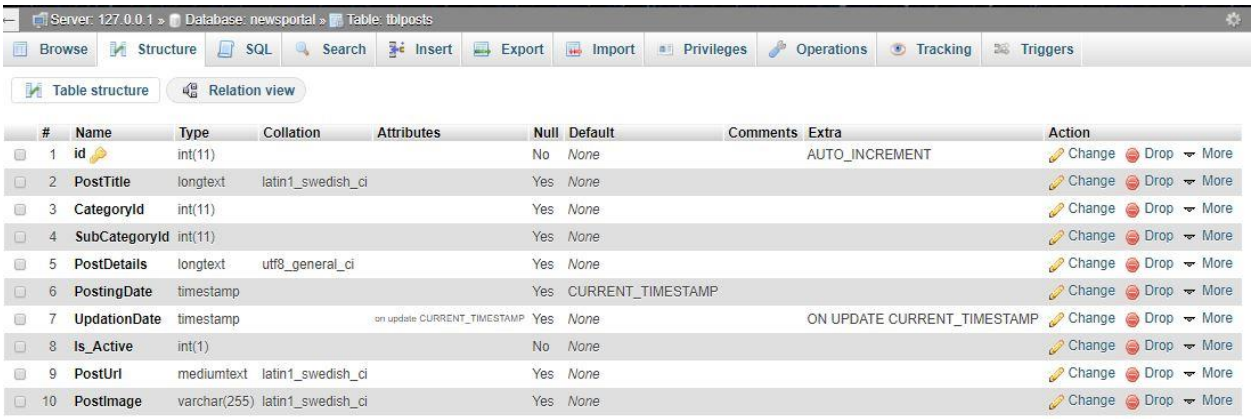

Figure8 Post Table

INTERFACE DESIGN DESCRIPTION

Administrator Interface

This interface that show in figure 4.9 list of sub menu for administrator as they can choose to click the selection. The selection menu are Dashboard, Category, Post, Page and Logout. The problem in developing this portal is about information “Forecast Flood” and “Evacuate plan” need to be separate but in developed the portal, “Forecast Flood” and “Evacuate Plan” combined in “Category” which is admin can create their own category that have information about “Forecast flood” and “Evacuate plan”.

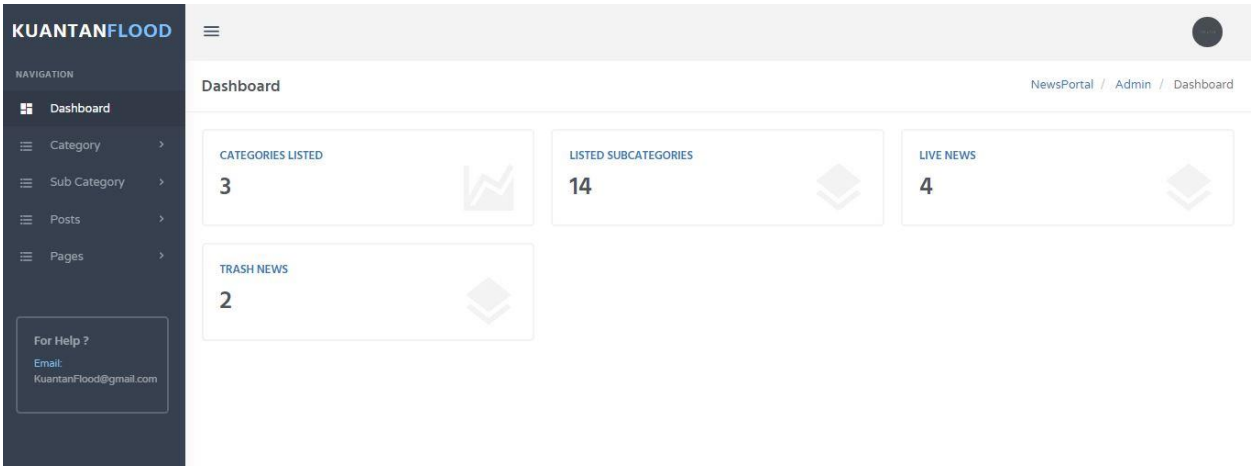

Figure 9 Administrator main interface

Category Interface for Resident, Staff and Administrator.

This interface (Figure 10) show the list category that have sub menu in category which are add category and manage category can state information about Kuantan State, Schedule Tide and Evacuate Plan. This interface will give different access for each user. For resident, they can only view these information. Next, JPS and Administrator can create category by fill in form of Kuantan State, Schedule Tide and Evacuate Plan. They also can edit and delete the category too.

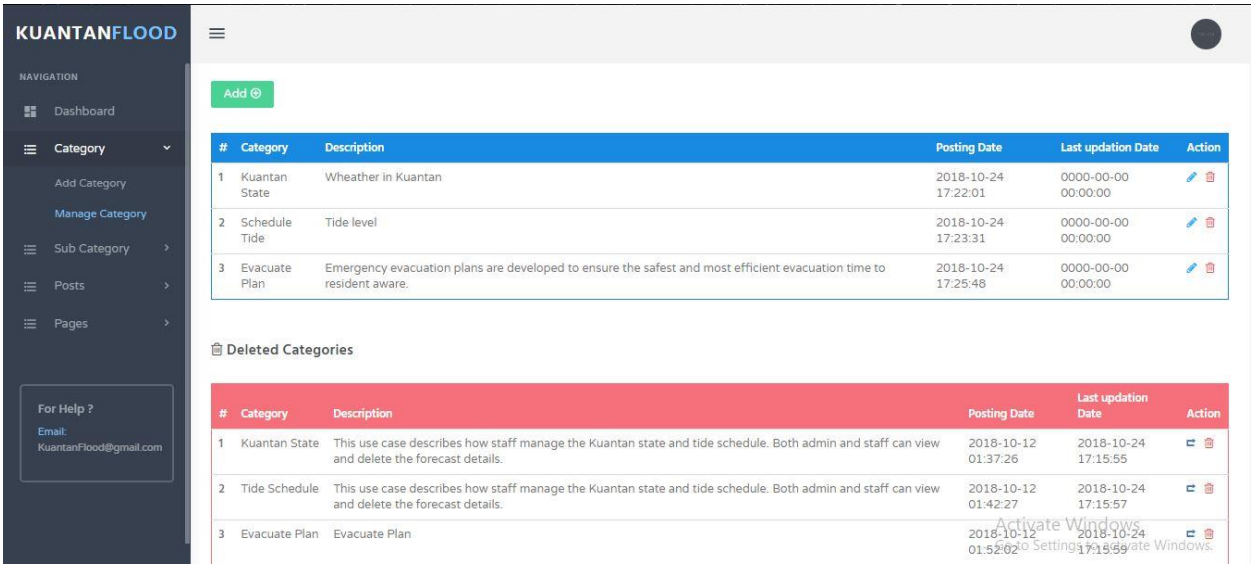

Figure 10 Category Interface

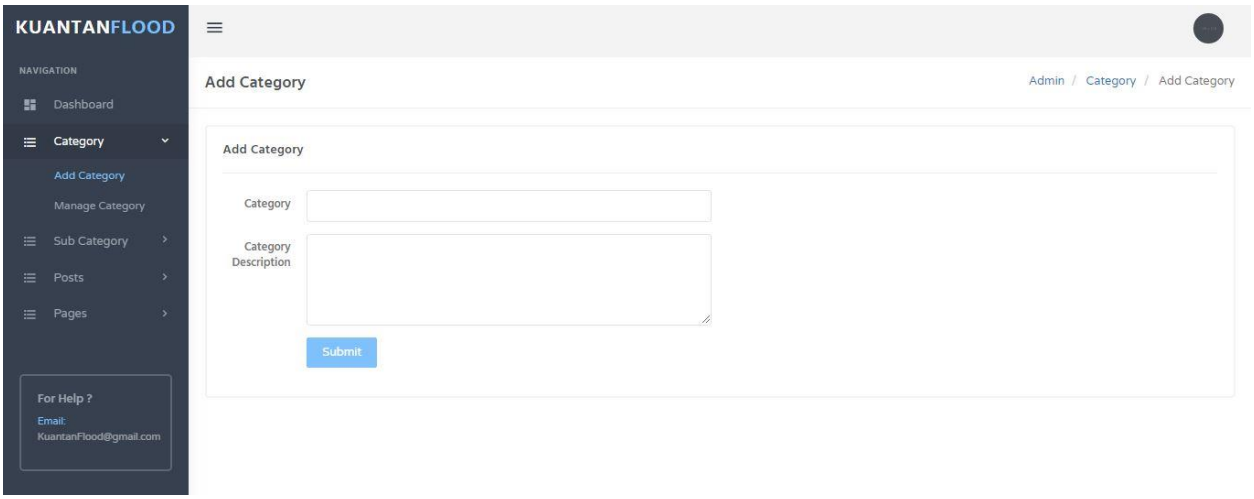

Figure 11 Add Category interface

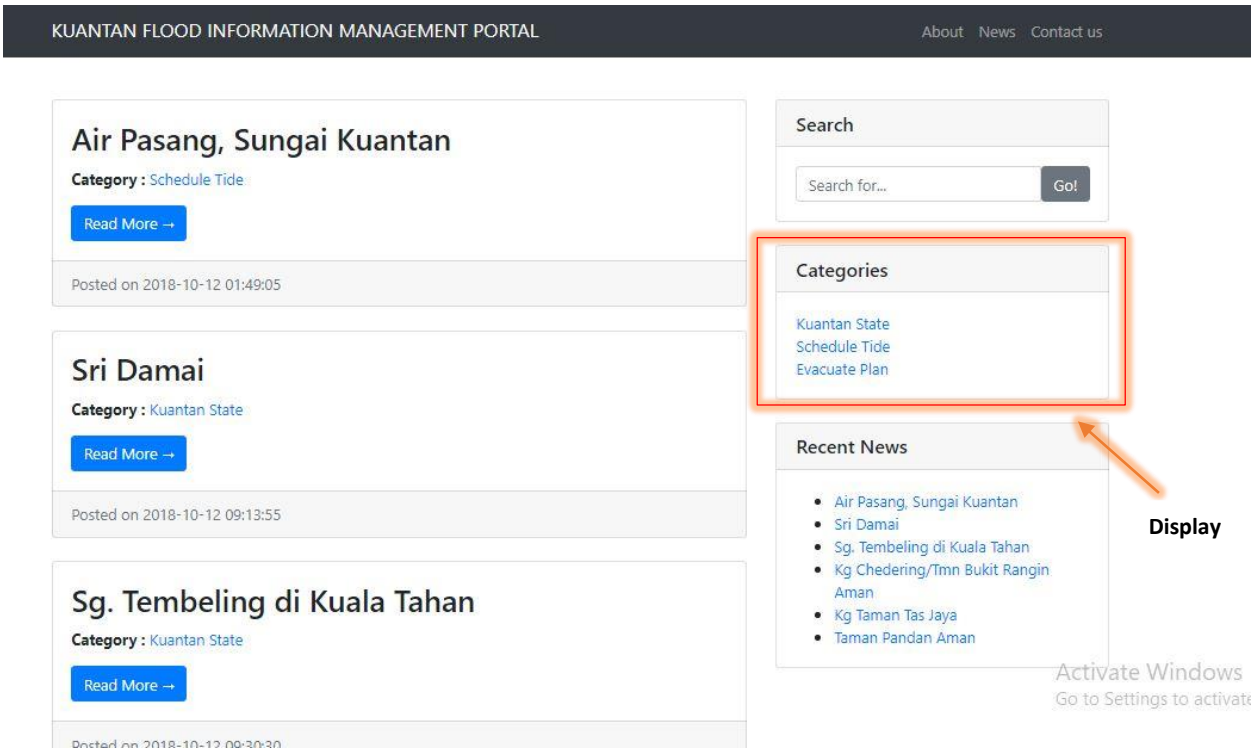

Figure 12 View Category

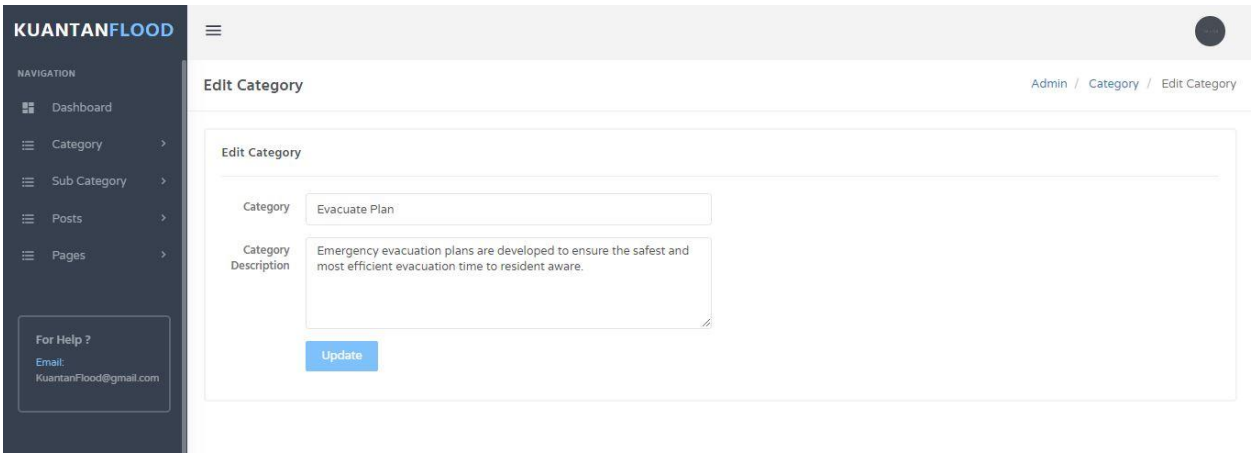

Figure 13 Update Category interface

Figure 14 Delete category temporarily

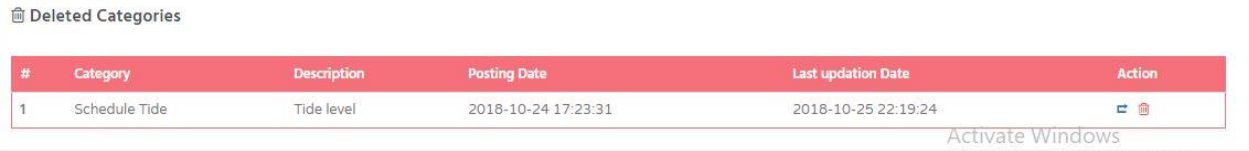

Figure 15 List delete category interface

Figure 16 Delete forever category interface

Posts Category information for resident, staff and Administrator.

Figure 4.17 only can be accesses by Staff JPS and administrator. They can create sub information from category information. The option add posts to allow staff JPS and administrator posts information about “Forecast Flood” and “Evacuate Plan” information. Figure 4.18 and 4.19 manage post that allow staff and administrator to update and delete posts. Then the information about Kuantan state, Schedule tide and Evacuate plan can view for resident after release by administrator.

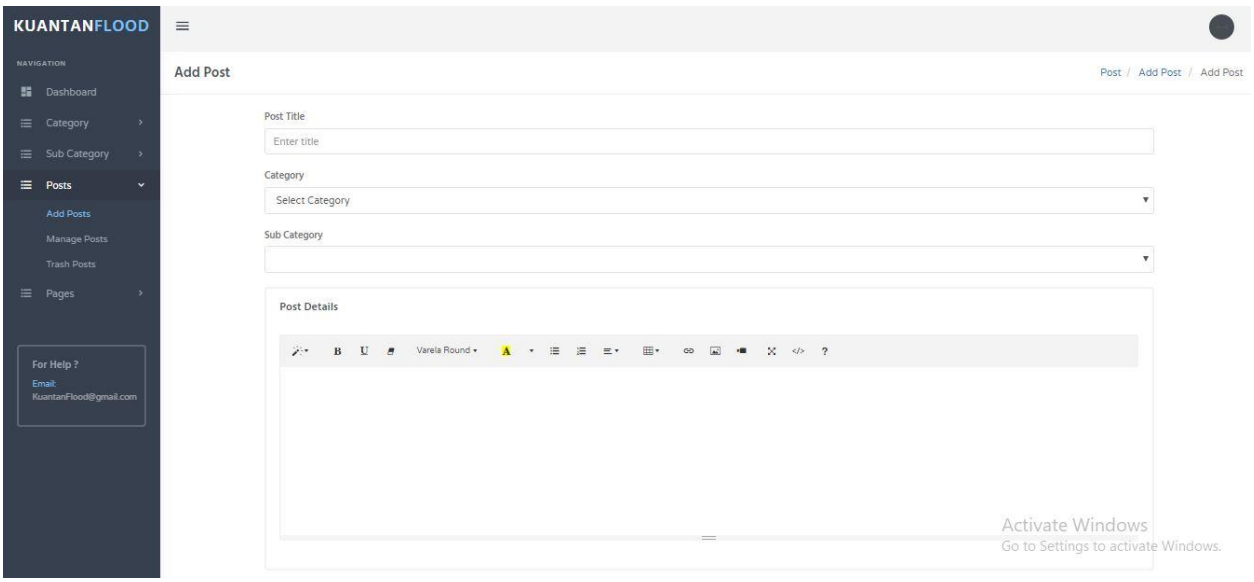

Figure 17 Add posts interface

Figure 18 Manage Posts interface

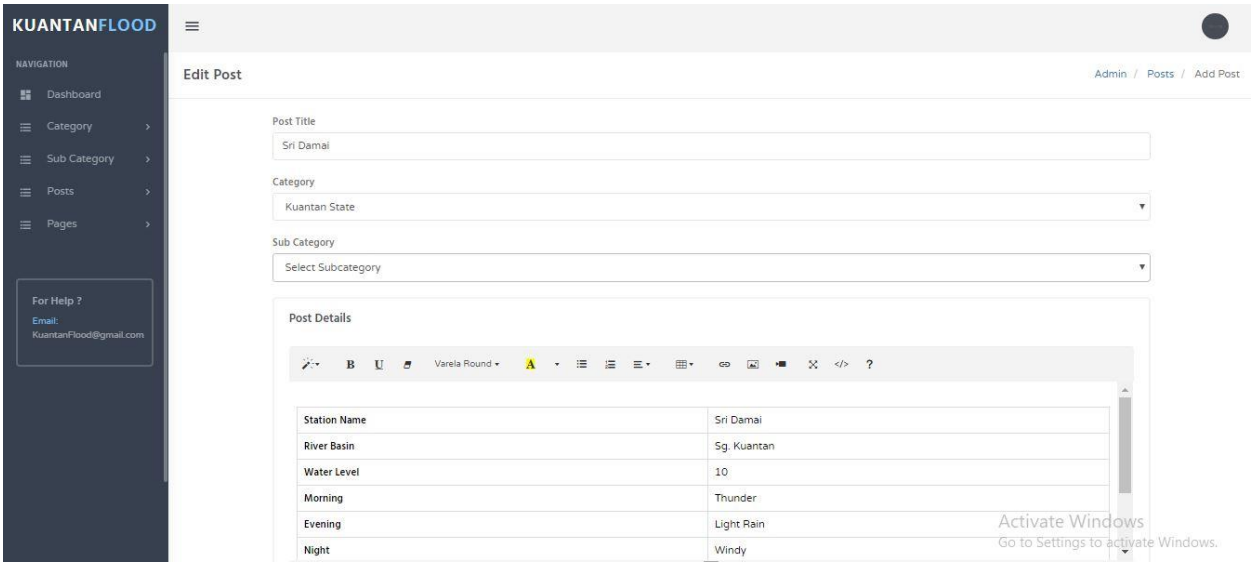

Figure 19 Update posts interface

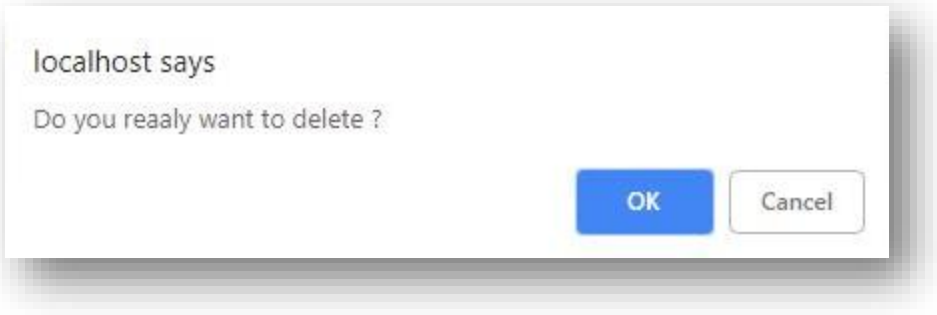

Figure 20 Popup Message delete posts interface

Resident Kuantan View interface

Figure 21 show above main page for resident interface and can be access by all user. This interface release from JPS staff and administrator site where resident can get information about Kuantan Flood. Functions provide are view and search function in this resident site.

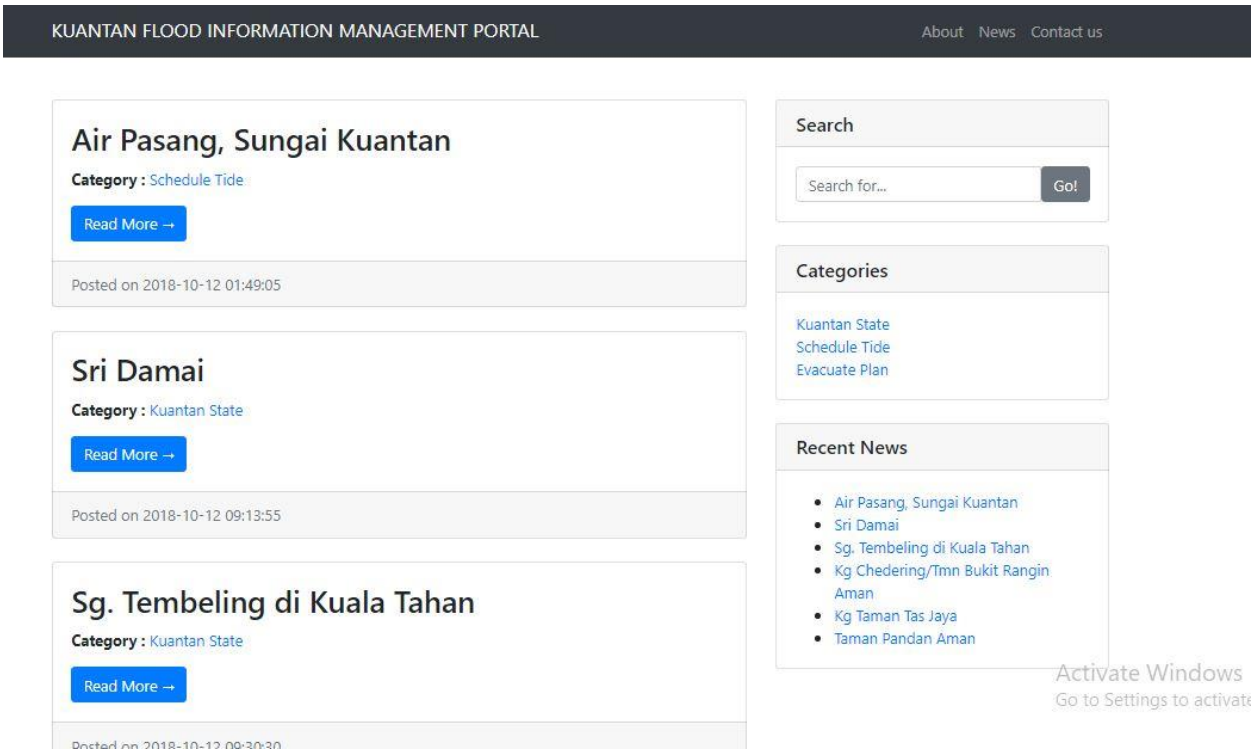

Figure 21 Home Page for resident interface

Figure 22 Search function.

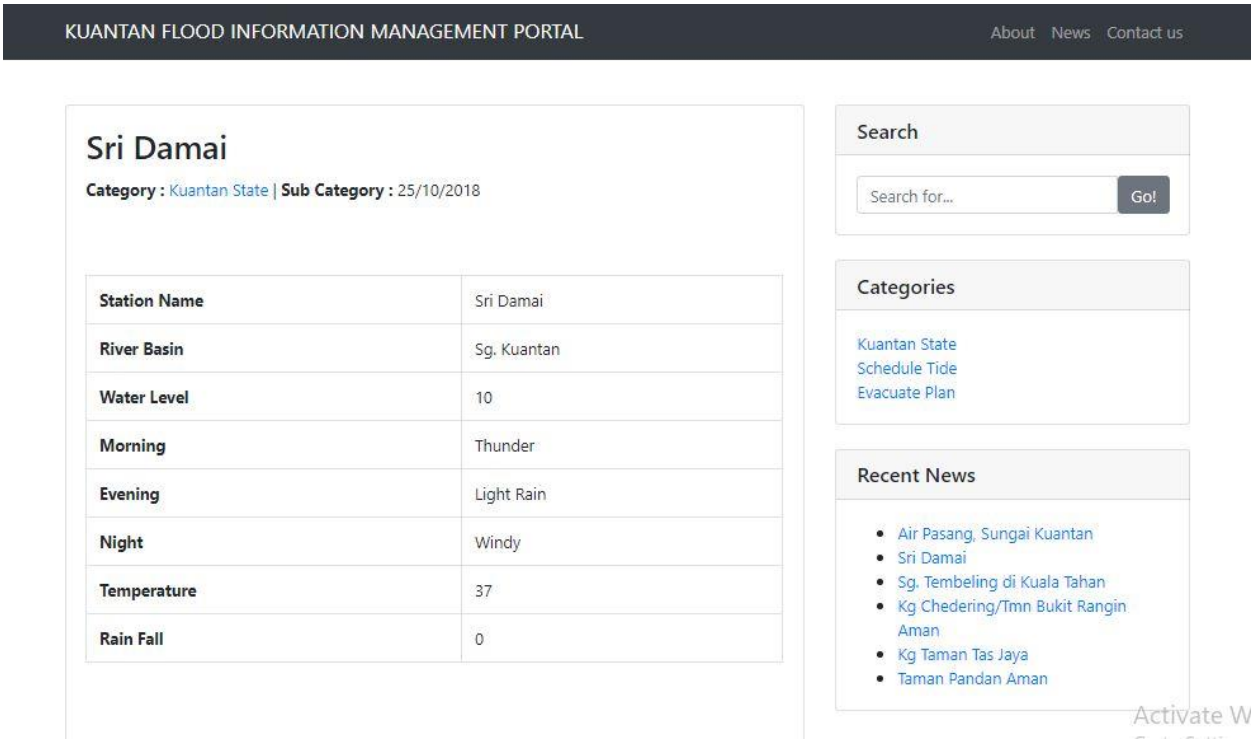

Figure 22 View posts for Kuantan State category interface