

# **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.

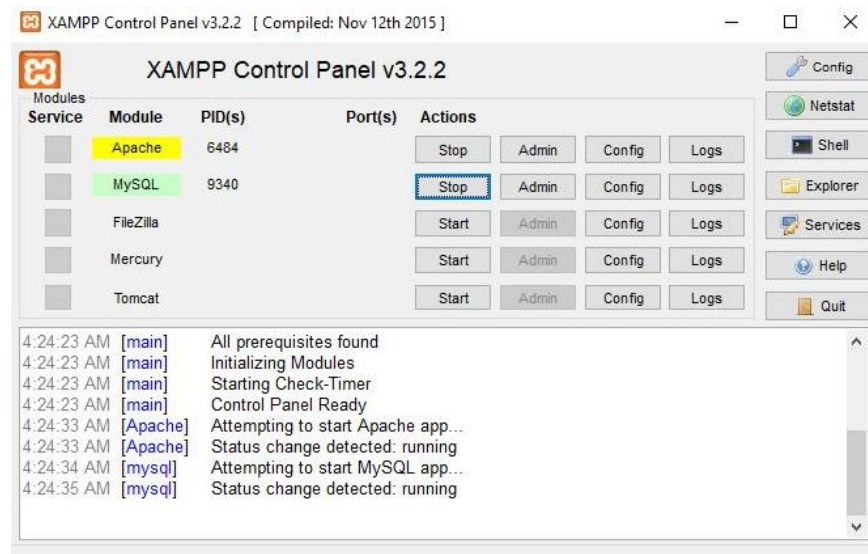


Figure 1 XAMPP Control Panel

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.

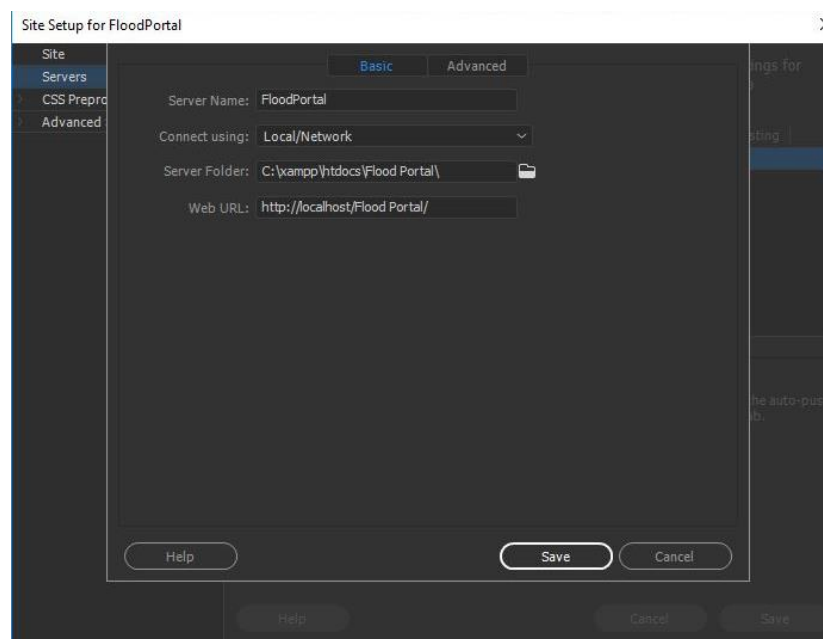


Figure 2 Site Setup for Kuantan Flood Information Portal connection server.

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.

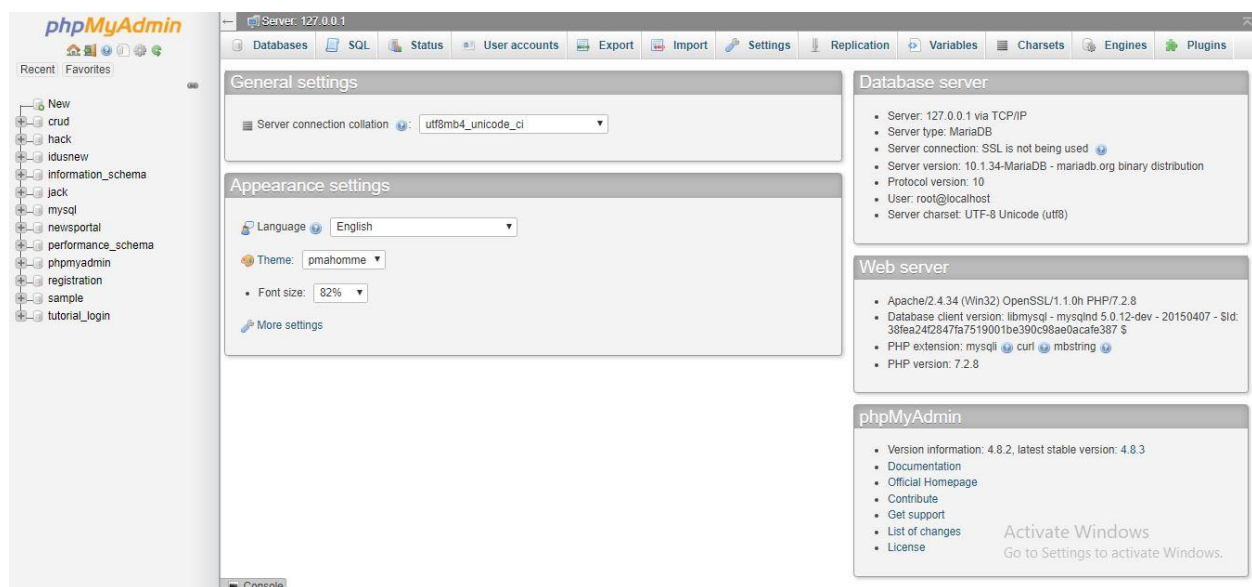


Figure 3 PhpMyAdmin Working Environment

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.

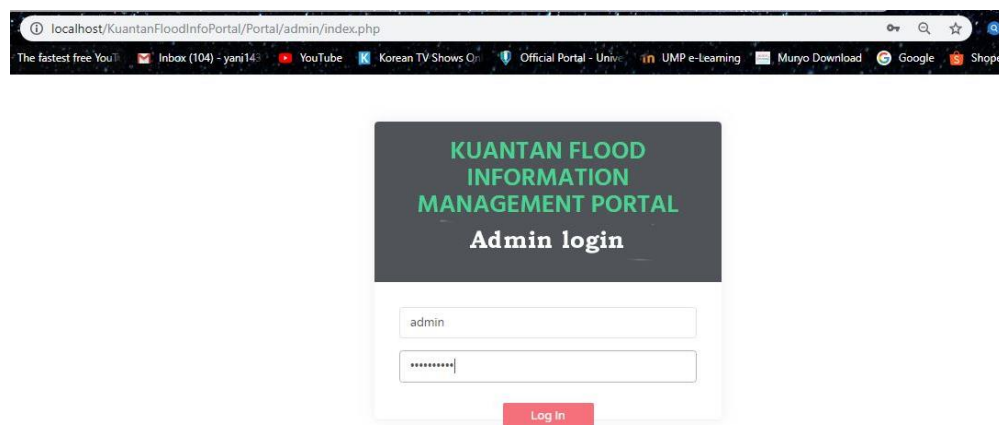


Figure 4 Address Name on the Running Server

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.

```

1  <?php
2  define('DB_SERVER','localhost');
3  define('DB_USER','root');
4  define('DB_PASS','');
5  define('DB_NAME','KuantanFloodPortal');
6  $con = mysqli_connect(DB_SERVER,DB_USER,DB_PASS,DB_NAME);
7  // Check connection
8  if (mysqli_connect_errno())
9  {
10     echo "Failed to connect to MySQL: " . mysqli_connect_error();
11 }
12 ?>

```

Figure 5 Configuration database connection

Server: 127.0.0.1 • Database: newportal • Table: tbladmin									
<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">SQL</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Export</a> <a href="#">Import</a> <a href="#">Privileges</a> <a href="#">Operations</a> <a href="#">Tracking</a> <a href="#">Triggers</a>									
<a href="#">Table structure</a> <a href="#">Relation view</a>									
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	AdminUserName	varchar(255)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	AdminPassword	varchar(255)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	AdminEmailid	varchar(255)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	Is_Active	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Figure 6 Administrator Table

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

Figure 7 Category Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	PostTitle	longtext	latin1_swedish_ci		Yes	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	CategoryId	int(11)			Yes	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	SubCategoryId	int(11)			Yes	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	PostDetails	longtext	utf8_general_ci		Yes	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
6	PostingDate	timestamp			Yes	CURRENT_TIMESTAMP			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
7	UpdateDate	timestamp		on update CURRENT_TIMESTAMP	Yes	None		ON UPDATE CURRENT_TIMESTAMP	<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
8	Is_Active	int(1)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
9	PostUrl	mediumtext	latin1_swedish_ci		Yes	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
10	PostImage	varchar(255)	latin1_swedish_ci		Yes	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

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”.

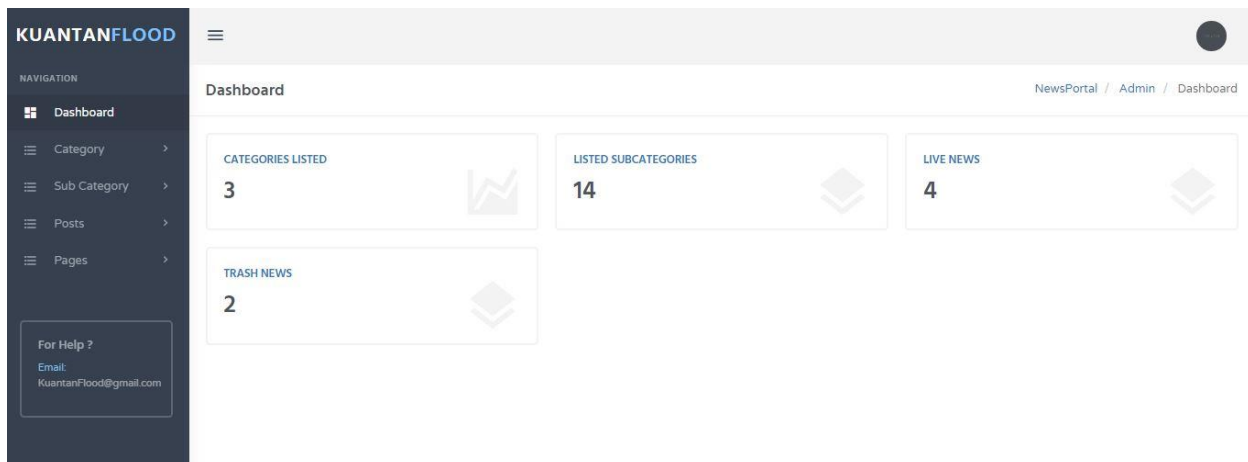


Figure 9 Administrator main interface

## 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.

The screenshot displays the 'KuantanFlood' web application interface. On the left is a dark sidebar with a navigation menu including 'Dashboard', 'Category' (selected), 'Add Category', 'Manage Category', 'Sub Category', 'Posts', and 'Pages'. Below the menu is a 'For Help?' section with an email address. The main content area has a light gray header with a hamburger menu icon and a dark circular profile icon. Below the header is a green 'Add @' button. The primary section is a table with columns: '#', 'Category', 'Description', 'Posting Date', 'Last update Date', and 'Action'. It lists three categories: 'Kuantan State', 'Schedule Tide', and 'Evacuate Plan'. Below this table is a section titled 'Deleted Categories' with a similar table listing three deleted entries. A watermark 'Activate Windows' is visible in the bottom right corner.

#	Category	Description	Posting Date	Last update Date	Action
1	Kuantan State	Wheather in Kuantan	2018-10-24 17:22:01	0000-00-00 00:00:00	<a href="#">Edit</a> <a href="#">Delete</a>
2	Schedule Tide	Tide level	2018-10-24 17:23:31	0000-00-00 00:00:00	<a href="#">Edit</a> <a href="#">Delete</a>
3	Evacuate Plan	Emergency evacuation plans are developed to ensure the safest and most efficient evacuation time to resident aware.	2018-10-24 17:25:48	0000-00-00 00:00:00	<a href="#">Edit</a> <a href="#">Delete</a>

#	Category	Description	Posting Date	Last update Date	Action
1	Kuantan State	This use case describes how staff manage the Kuantan state and tide schedule. Both admin and staff can view and delete the forecast details.	2018-10-12 01:37:26	2018-10-24 17:15:55	<a href="#">Edit</a> <a href="#">Delete</a>
2	Tide Schedule	This use case describes how staff manage the Kuantan state and tide schedule. Both admin and staff can view and delete the forecast details.	2018-10-12 01:42:27	2018-10-24 17:15:57	<a href="#">Edit</a> <a href="#">Delete</a>
3	Evacuate Plan	Evacuate Plan	2018-10-12 01:52:02	2018-10-24 17:15:59	<a href="#">Edit</a> <a href="#">Delete</a>

Figure 10 Category Interface

The screenshot shows the 'Add Category' form within the 'KuantanFlood' application. The sidebar and header are identical to Figure 10. The main content area has a light gray header with the text 'Add Category' and a breadcrumb trail 'Admin / Category / Add Category'. Below the header is a form titled 'Add Category' containing two text input fields: 'Category' and 'Category Description'. A blue 'Submit' button is positioned below the 'Category Description' field. A watermark 'Activate Windows' is visible in the bottom right corner.

Figure 11 Add Category interface

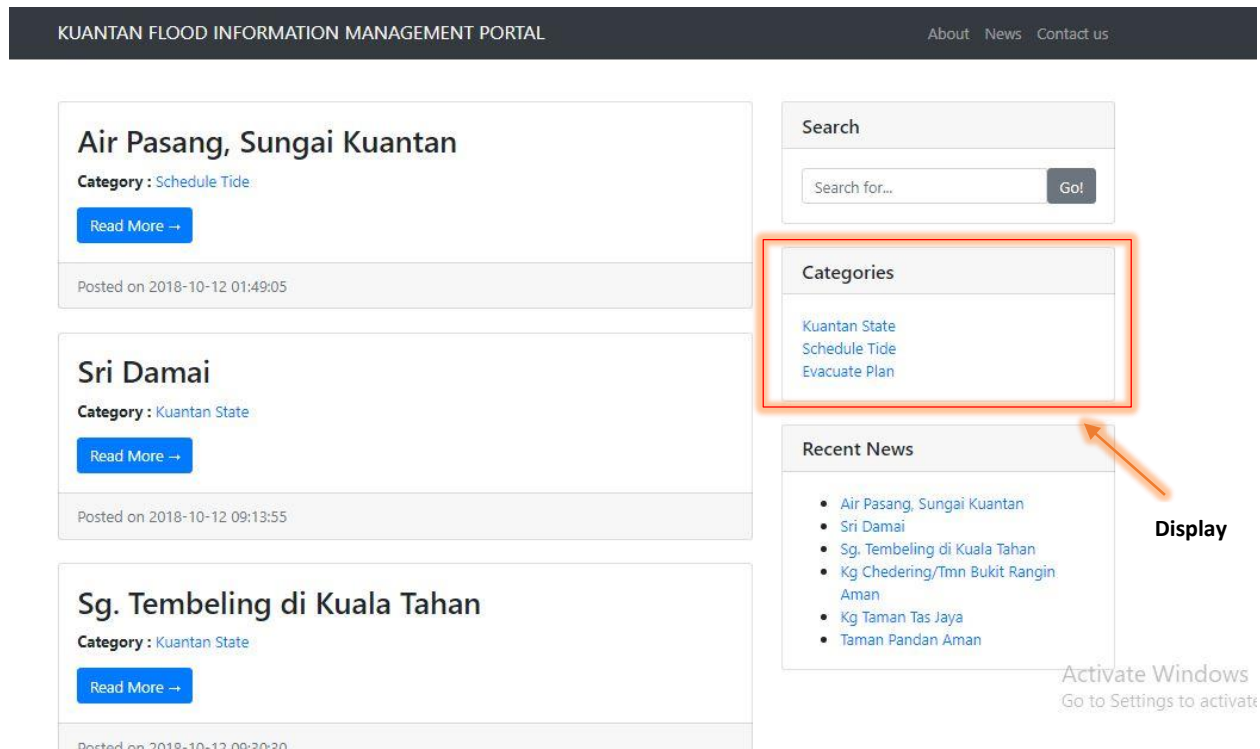


Figure 12 View Category

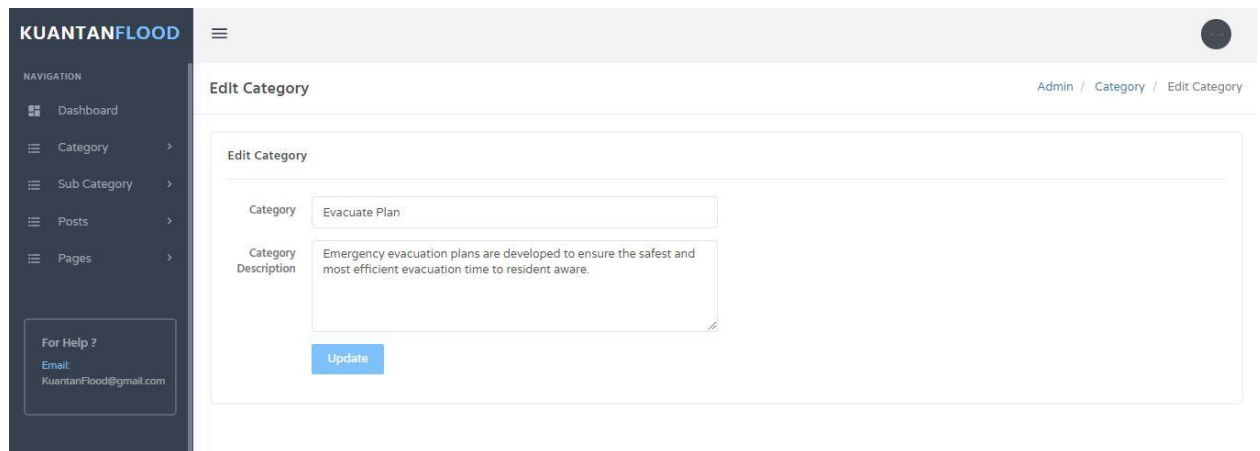


Figure 13 Update Category interface





Figure 14 Delete category temporarily

Deleted Categories

#	Category	Description	Posting Date	Last update Date	Action
1	Schedule Tide	Tide level	2018-10-24 17:23:31	2018-10-25 22:19:24	 

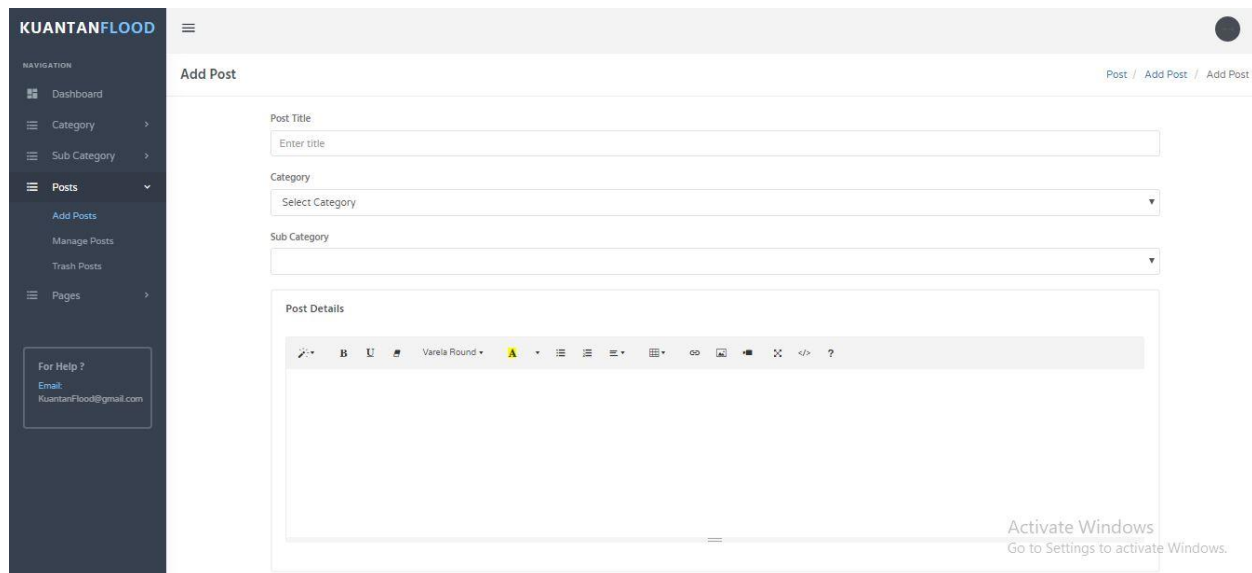
Figure 15 List delete category interface



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.



KUANTANFLOOD

NAVIGATION

- Dashboard
- Category
- Sub Category
- Posts
- Add Posts
- Manage Posts
- Trash Posts
- Pages

For Help ?  
Email: KuantanFlood@gmail.com

Add Post

Post Title  
Enter title

Category  
Select Category

Sub Category

Post Details

Activate Windows  
Go to Settings to activate Windows.

Figure 17 Add posts interface



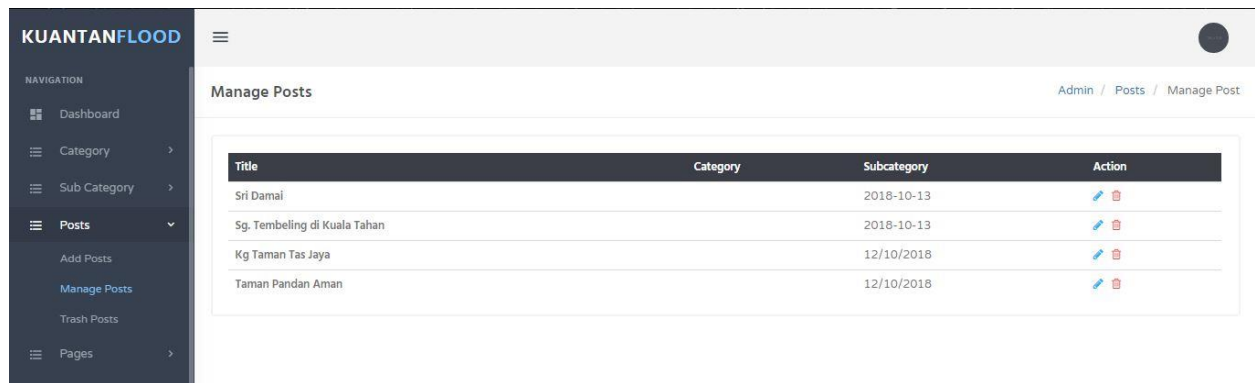


Figure 18 Manage Posts interface

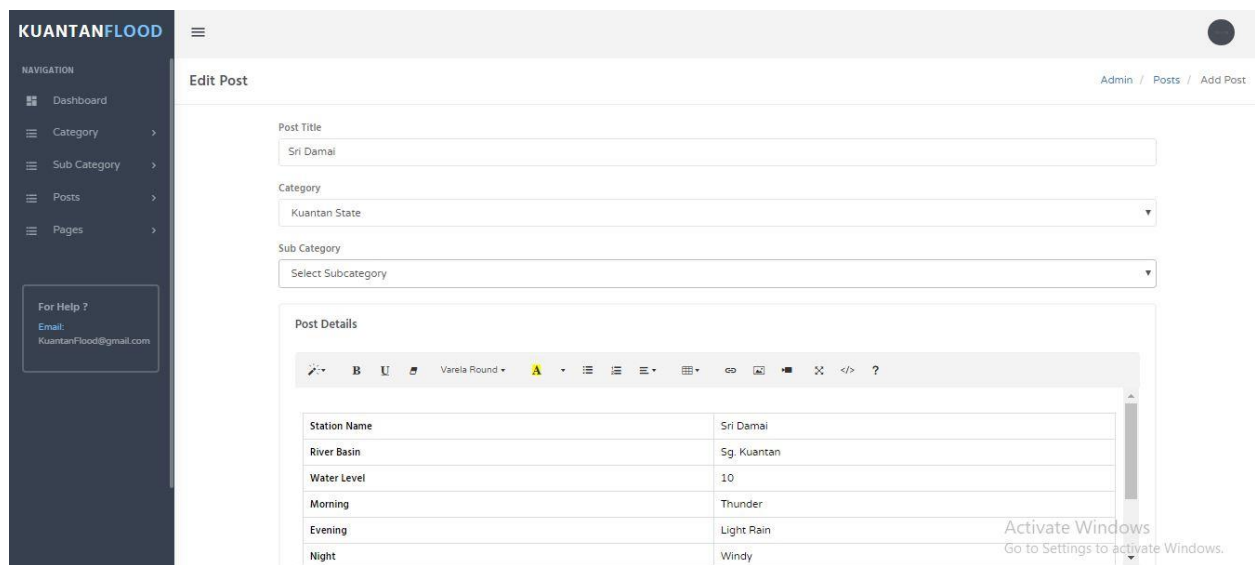


Figure 19 Update posts interface

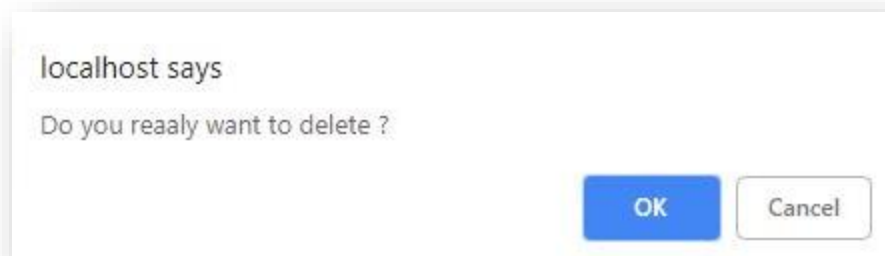


Figure 20 Popup Message delete posts interface

## 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.

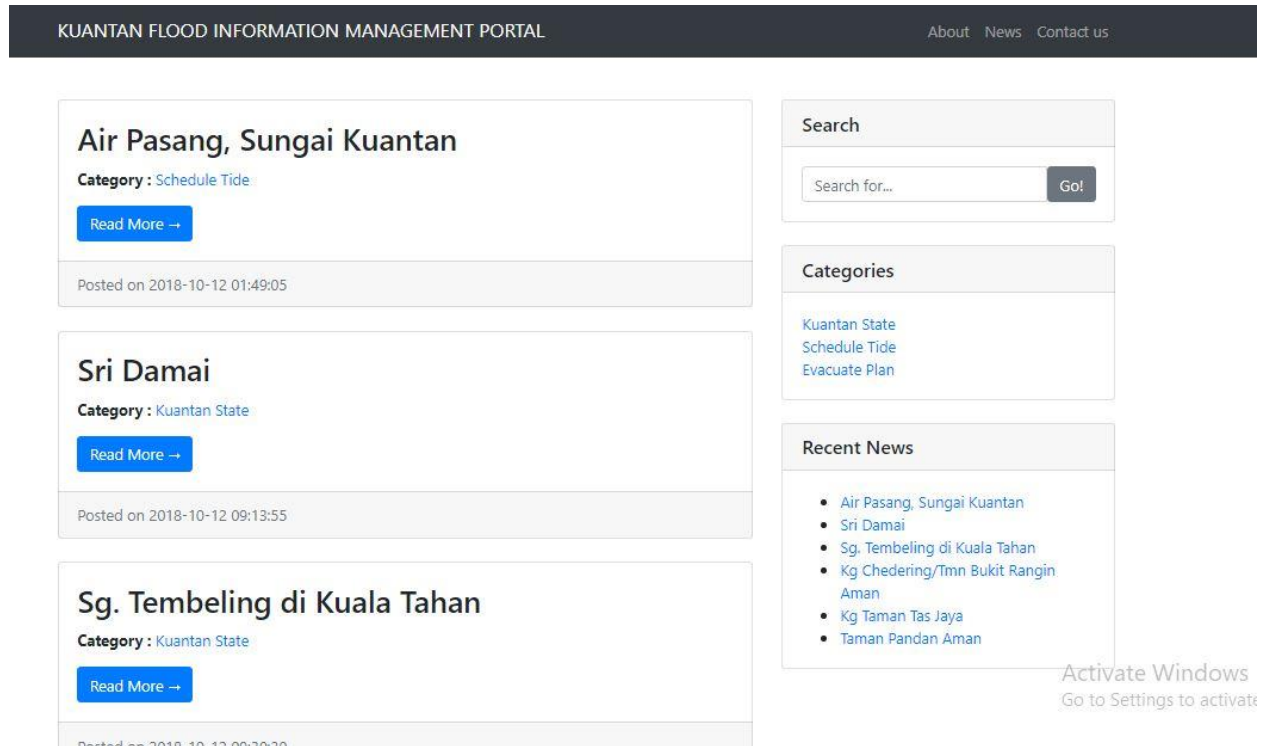


Figure 21 Home Page for resident interface



Figure 22 Search function.

KUANTAN FLOOD INFORMATION MANAGEMENT PORTAL

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## Sri Damai

Category : [Kuantan State](#) | Sub Category : 25/10/2018

Station Name	Sri Damai
River Basin	Sg. Kuantan
Water Level	10
Morning	Thunder
Evening	Light Rain
Night	Windy
Temperature	37
Rain Fall	0

Search

Categories

[Kuantan State](#)  
[Schedule Tide](#)  
[Evacuate Plan](#)

Recent News

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- [Sri Damai](#)
- [Sg. Tembeling di Kuala Tahan](#)
- [Kg Chedering/Tmn Bukit Rangin Aman](#)
- [Kg Taman Tas Jaya](#)
- [Taman Pandan Aman](#)

Figure 22 View posts for Kuantan State category interface