Introduction

1.1 Project Overview

A web-based application to store innovation information called "Asian Innovation Council" will be developed for internet user. The focus is to build a platform where all innovator can store their innovation in one massive library. It is expected to be a main web-based application for people around Malaysia or student in UiTM at least to access information about innovation.

The web-based application will be developed on appropriate domain. A short, memorable domain name can make the difference between creating a successful Web presence and getting lost in cyberspace. The user and innovation information from member's registration in database will be administer by using MySQL table. The website also will integrate user and innovation information.

The web-based application will be developed by a team of two people. It required many types of programming language and tools that need to be used in order develop the website such as HTML5, CSS, PHP and Adobe Dreamweaver. The methodology uses are spiral model as to complete the website. The cost for the project is estimated about RM80.00 use to buy domain and server.

1.2 Problem Statement

Many innovation show had held nowadays such as PIIC and AIS with a great amount of participant showing various kind of innovation. All the innovation are amazing and great but there are no proper place available for the participant or any innovator to share their innovation information into one platform that can be shared to the people around the globe. There are many kind of innovation are roaming in all around the cyberspace or social media that not focusing in one library that making people having hard time to search for it. This for sure will become a waste of knowledge if nothing can be done to store all the innovation into one platform so it will ease people to access it. To solve this problem, a web-based application will be developed to store all the innovation information.

1.3 Objective

This project will fulfil all this following objective:

- 1. To develop a website on appropriate domain.
- 2. To administer user and innovation information from member's registration.
- 3. To integrate user and innovation information at the developed website.

1.4 Scope of work

There are many types of programming language and tools that need to be used in order develop a web-based application:

1) HTML5 : HTML defines the structure and layout of a Web document by

using a variety of tags and attributes.

2) CSS : CSS describes how HTML elements are to be displayed

on

screen, paper, or in other media.

3) PHP : Server-side, HTML embedded scripting language used

to create dynamic Web pages.

4) MySQL : An open-source relational database management system

(RDBMS).

5) XAMPP : XAMPP stands for Cross-Platform (X), Apache (A),

MariaDB(M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for

testing and deployment purposes.

6) Adobe

Dreamweaver: Enables the HTML programmer to build complex

websites using HTML, JavaScript and server-side

programming languages.

Project Progress and Result

2.1 User Interface / GUI

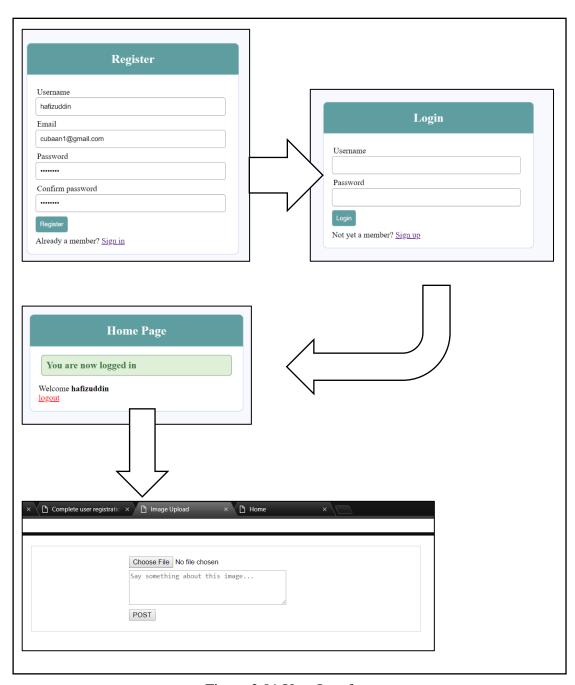


Figure 2.01 User Interface

2. 2 Block Diagram

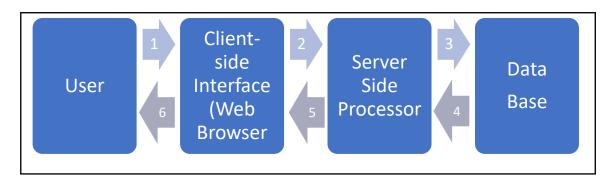
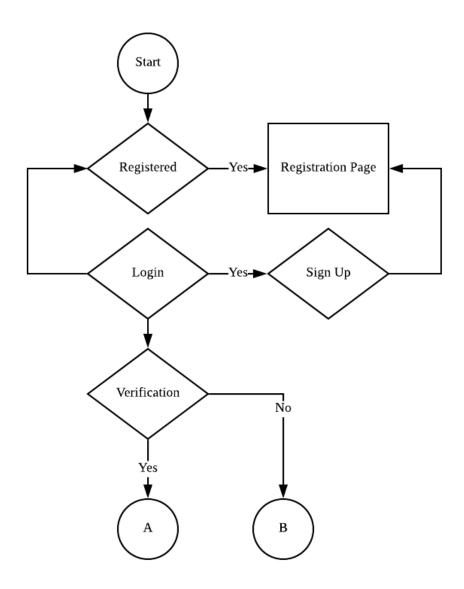
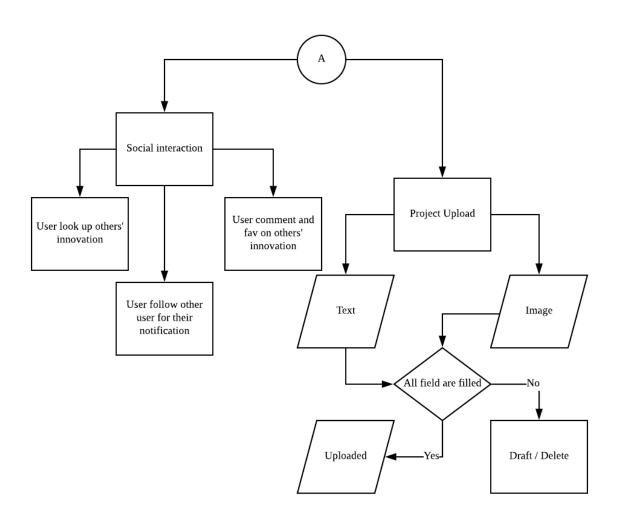


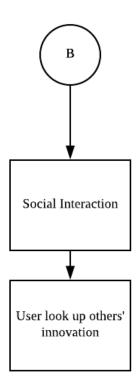
Figure 1.02 Block Diagram

- 1. User defines a Query using the Query interface.
- 2. Query interface sends the query to a server-side processing agent.
- 3. Server-side agent respond to the query using some data source or other backend service.
- 4. Data source return Query result.
- 5. Server-side agent return Query result.
- 6. Query result are displayed to the user.

2.3 System Operation







2.4 Preliminary Result

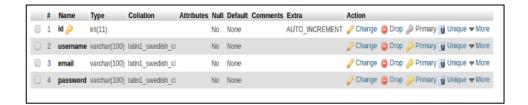


Figure 2.02 MySQl table

First we create database for the member database as registration using Mysql thru PHPMyadmin, we add a table called users and add id, username, email and password in the table.

Figure 2.03 register.php codes

First we do register.php, this is where user will register their membership. The code that received the form of data is written in the server.php file, it put at the topof the file. We also put errors.php files to display error.

```
* {
    mangin: 0px;
    padding: 0px;
}
body {
    font-size: 120%;
    background: #F8F8FF;
}

.header {
    width: 30%;
    margin: 50px auto 0px;
    color: white;
    background: #5F9EA0;
    text-align: center;
    border: 1px solid #80C4DE;
    border: 1px solid #80C4DE;
    border-bottom: none;
    border-radius: 10px 10px 0px 0px;
    padding: 20px;
}
form, .content {
    width: 30%;
    margin: 0px auto;
    padding: 20px;
    border: 1px solid #80C4DE;
    background: white;
    border-radius: 0px 0px 10px 10px;
}
.input-group {
    margin: 10px 0px 10px 0px;
}
.input-group label {
    display: block;
    text-align: left;
    margin: 3px;
}
```

Figure 2.04 style.css codes 1

```
input-group input {
height: 30px;
width: 93%;
padding: 5px 10px;
         size: 16px;
r-radius: 5px;
        er: 1px solid gray;
        ing: 10px;
         size: 15px;
        r: white;
ground: #5F9EA0;
         r: none;
              dius: 5px;
        h: 92%;
         n: 0px auto;
          g: 10px;
          : 1px solid #a94442;
         : #a94442;
           und: #f2dede;
                 us: 5px;
       or: #3c763d;
         round: #dff0d8;
r: 1px solid #3c763d;
                tom: 20px;
```

Figure 2.05 style.css codes 2

This is the style.css file, it work to improve the web to look user friendly.

```
c?php
session_start();

// initializing variables
Susername = "";
Semail = "";
Semail = "";
Serrors = array();

// connect to the database
Sdb = mysqli_connect('localhost', 'root', '', 'registration');

// RECISTER USER

if (isset($POST['reg_user'])) {
    // receive all input values from the form
    Susername = mysqli_real_escape_string($db, $POST['username']);
    Semail = mysqli_real_escape_string($db, $POST['username']);
    Spassword_1 = mysqli_real_escape_string($db, $POST['password_1']);
    Spassword_2 = mysqli_real_escape_string($db, $POST['password_2']);

// form validation: ensure that the form is correctly filled ...
// by adding (array_push()) corresponding error unto Serrors array
if (empty(Susername)) { array_push(Serrors, "Username is required"); }
if (empty(Spassword_1) { array_push(Serrors, "Tessword is required"); }
if (spassword_1) { array_push(Serrors, "Password is required"); }
if (spassword_1) i= Spassword_2 {
    array_push(Serrors, "The two passwords do not match");
}

// first check the database to make sure
// a user does not already exist with the same username and/or email
Suser_check_query = "SELECT * FROM users kHERE username= "Susername' OR email='$e
Sresult = mysqli_query($db, $user_check_query);
Suser = mysqli_fetch_assoc($result);

if ($user) { // if user exists
    if ($user['username'] === $username) {
        array_push($errors, "Username already exists");
    }
}
```

Figure 2.07 server.php codes 1

Figure 2.08 server.php codes 2

Figure 2.09 server.php codes 3

This is the server.php file that will do the job to insert data form by user into the database.

Figure 2.10 errors.php codes

This errors.php file that will display the error that the user if they make any mistake while registering or log in

```
<?php include('server.php') ?>
<!DOCTYPE html>
<ithat|>
<ithat|</th>

// Dody>

// html>
```

Figure 2.11 login.php codes

This is the login.php files, it provides a system that only for registered member where their data had been saved in the database.

```
<?php
  session_start();
  if (!isset($_SESSION['username'])) {
    $_SESSION['msg'] = "You must log in first";
header('location: login.php');
  if (isset($_GET['logout'])) {
    session_destroy();
    unset($_SESSION['username']);
header("location: login.php");
<html>
<head>
<title>Home</title>
   <link rel="stylesheet" type="text/css" href="style.css">
<div class="header">
   <h2>Home Page</h2>
    <?php if (isset($_SESSION['success'])) : ?>
      <div class="error success" >
          <?php
            echo $_SESSION['success'];
            unset($_SESSION['success']);
    <?php endif ?>
    <?php if (isset($_SESSION['username'])) : ?>
        Welcome <strong><?php echo $_SESSION['username']; ?></strong>
         <a href="index.php?logout='1'" style="color: red;">logout</a> 
    <?php endif ?>
```

Figure 2.12 index.php codes

This is the index.php files, it will be the first to show up in the web when the user open the website.

2.5 Simulation



Figure 2.13 Register page

First we going to register username, email and password in the localhost/registereration/register.php. If succeed then all the data that we submitted form the form will be saved in the database at mysql.

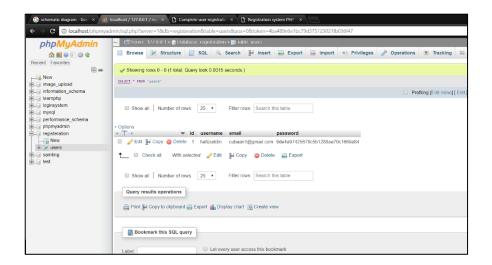


Figure 2.14 MySQL client phpMyAdmin

Here all the submitted data been stored in mysql table. Noticed that password had been hashed for security of the member.

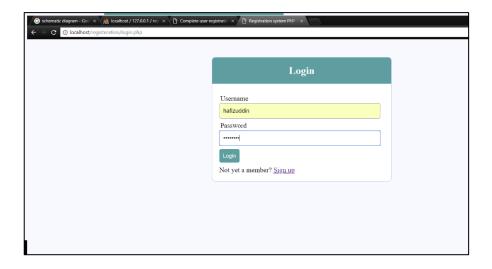


Figure 2.15 Log in page

To approve that that the data stored can be retrieved, we try to log in using the same username and password in database.



Figure 2.16 Success log in

The site show that our logged in successful so our simulation for member database are success.

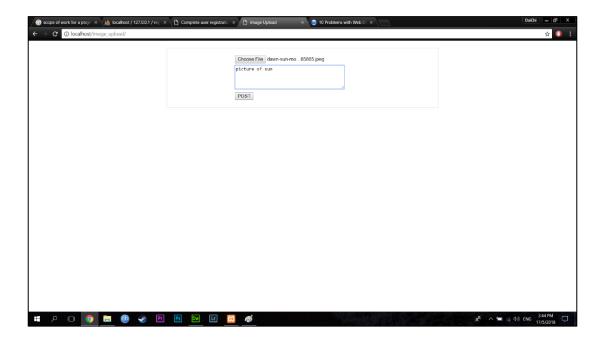


Figure 2.17 Upload image

As for the innovation database, it will be storing data such as picture and text so we. In the picture we upload a picture and some text that will be store in database.

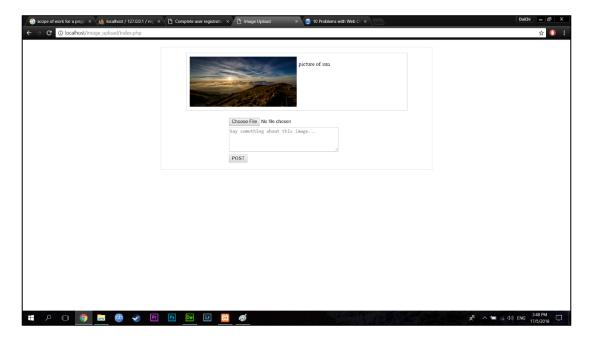


Figure 2.18 Picture shown

To prove that the picture stored in the database, we retrieve it in the website to show that it was success.

2.6 Problem Encountered and the Solutions

Our main problem is we were difficult to find proper time to a set meet up with our supervisor. The date of a submission also clashed with test and classes. So it is hard to get our progress going smoothly. Then, we discussed and compared each other timetable to make our work get along. We divided tasks and work that need to be done in a short time. Because if we have a proper time before we hands in, we also can have some time to meet.

Secondly, as this is our first time of doing an engineering project, so we lack of knowledge in order to improve our web-application. There were the dos and don'ts in anything, same goes to our project. We need to do some improvise to make it better in quality. This problem we faced lead us to a solution where we find our supervisor of course, and other lecturer. We also studied by our own at library using specified books.

Last but not least, we have faced a lot of problems in our simulation. At first it may seem easy, but as soon as we started there were many parts of coding that were left blank. As soon as we figured out its full coding, turns out the coding are a bit messy. Other than that, web-application with its function require more than client-server coding. So for these things, first we use a software called Adobe Dreamweaver to make our coding systematic. Next we also use MySQL client PhpMyAdmin, XAMPP, as a medium to connect to our local host.

Project Plan

Table 3.1 Project Plan

| | Duratio | | | | | | | | | | | | | | | |
|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | n | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 1 | 1 | 1 | 1 | 1 |
| | (Week) | | | | | | | | | | 0 | 1 | 2 | 3 | 4 | 5 |
| FYP 2 Briefing | 1 | / | | | | | | | | | | | | | | |
| Meeting up with supervisor | 14 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| Team meet-up | 14 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| Research and buying server cloud and domain | 3 | | | | | | | | | / | / | / | | | | |
| Perfecting the coding | 14 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| Research on troubleshootin g and problem solving | 6 | | | | | | | | / | / | / | / | / | / | | |
| First Draft (Chapter 1 and 2) | 1 | | | | | / | | | | | | | | | | |
| Second Draft (Chapter 3) | 1 | | | | | | | | / | | | | | | | |
| Final Draft | 1 | | | | | | | | | | | / | | | | |
| Presentation | 1 | | | | | | | | | | | | | | / | |
| Report Submission | 1 | | | | | | | | | | | | | | | / |

CONCLUSION

As for the conclusion, develop a website on a proper domain does make the difference between creating a successful Web presence and getting lost in cyberspace. Then, administer user and innovation information from member's registration using MySQL table really help making the data organised and easy to trace. The website are also able to integrate user and innovation information.

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