Software Requirements Specification

for

Combat Veteran’s Motorcycle Association (CVMA) Website/Database

Version 1.0 (draft)

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Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Adam Crain | 17 Sep 19 | Project Document Created | 1.0 |
| Adam Crain | 28 Sep 19 | Use Cases added to 2.3 Functional Requirements | 1.0 |
| Adam Crain | 10 Oct 19 | ER Diagram Added to Document | 1.0 |
| Adam Crain | 10 Dec 19 | Final Revisions for Semester | 1.0 |
| Adam Crain | 14 Feb 20 | Added HTML and CSS Coding for index page. | 1.0 |
| Adam Crain | 27 Feb 20 | Updated HTML coding and schedule. | 1.0 |
| Adam Crain | 28 Apr 20 | Final revisions prior to project submission. | 1.0 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Introduction

The Combat Veteran’s Motorcycle Association (CVMA) is an association of Combat Veterans from all branches of the United States Armed Forces who ride motorcycles as a hobby. As a non-profit organization, their mission is to support and defend those who have defended our country and our freedoms. With the motto of “Veterans helping Veterans,” their focus is to help support veteran care facilities provide a warm meal, clothing, shelter, and guidance, along with supporting various other veteran charities in the community.

## Purpose

In order to support the CVMA mission, they would like to have a public facing website which provides information about the organization and a means for people to be able to make donations online. Additionally, they require a supporting database to aid with personnel accounting and record keeping.

## Intended Audience and Reading Suggestions

This document is intended to detail functional requirements as specified by the CVMA, design specifications, software and licensing requirements, and web hosting alternatives. Additionally, this document contains a project schedule, database entity-relationship diagram (ERD), a Use Case Diagram, Data Flow Diagram, and a list of itemized costs necessary to support the project.

## Product Schedule

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TASK NAME | ASSIGNED TO | START DATE | DUE DATE | DURATION | % DONE |
| Project Proposal | Adam | 9/1/2019 | 9/15/2019 | **15** | 100 |
| Functional Requirements | Adam | 9/28/2019 | 10/10/2019 | **12** | 100 |
| Customer Requirements  Priority Assignments | Adam | 9/30/2019 | 11/1/2019 | **30** | 100 |
| Webhosting Options | Adam |  | 4/30/2020 |  | postponed due  to COVID |
| Database ER Diagram | Adam | 11/15/2019 | 12/6/2019 | **22** | 100 |
| Database Design | Adam | 12/6/2019 | 2/15/2020 | **70** | 100 |
| Webpage Design/Coding | Adam | 1/15/2020 | 2/15/2020 | **30** | 100 |
| PHP Coding | Adam | 2/16/2020 | 3/15/2020 | **30** | 100 |
| Testing | Adam | 3/16/2020 | 4/15/2020 | **30** | 100 |
| Customer  Presentation/Acceptance | Adam | 4/16/2020 | 5/6/2020 | **20** | postponed due  to COVID |
| Implementation | Adam | 4/16/2020 | 5/6/2020 | **20** | postponed due  to COVID |

## References

Hypertext Transfer Protocol Secure (HTTPS) communication standard is covered in detail at <https://tools.ietf.org/html/rfc2818> by the Internet Engineering Task Force (IETF).

# Overall Description and Requirements

This section will give an overview of webpage requirements as provided by the Combat Veteran’s Motorcycle Association (CVMA). It will describe use case scenarios and functional requirements as well as the priority assignments for each module.

## Product Perspective

This project will provide a public website to share fundraising events with the local community, attract new membership, and to provide a method for current members to more effectively coordinate event planning.

## Customer Requirements

The webpage will ideally be capable of operating on both desktop/laptop computers and mobile devices.

The following is a list of functional requirements provided by the CVMA on 15 Sep 2019:

* Allow new users to create a new username and password if they know their member number.
* Have member number emailed to the member’s email address on record if not known.
* Make a charitable donation to CVMA chapter 11-4 using a credit card.
* Complete a form to contact CVMA chapter 11-4 executive committee.
* Have operational links to CVMA state and national websites.
* View calendar of events.
* Create a new topic in the discussion forum.
* View topic threads within the discussion forum.
* Reply to comments within a topic thread.
* Create a new event in the personnel accounting section of webpage (password protected).
* Select members from a list in attendance at events in personnel accounting section of webpage.
* Generate attendance reports for specific events and for specified periods of time.
* View current status of new member applicants.
* Update new member and current membership data.

## Functional Requirements

### Use Cases

**Use Case 1 Creating a new user account**

Only existing members may create an account. When creating an account, an administrator must approve and activate the account prior to being able to access the discussion forum areas of the website.

**Use Case 2 View Current Events on Calendar**

Users my view scheduled events on a Calendar. Additional details for events may be viewed by selecting a specific date on the calendar.

**Use Case 3 Add Event to Calendar**

Authorized users may add an event to the calendar.

**Use Case 4 Delete an Event from Calendar**

Authorized users may remove events from the calendar.

**Use Case 5 Contact the Executive Committee**

Users may complete a form to which will email members of the executive committee for information regarding membership or charitable donations.

**Use Case 6 View Chapter Photographs**

Users may view photographs of chapter events.

**Use Case 7 Add Photographs to Website**

Authorized users may add photographs of chapter events for public viewing.

**Use Case 8 Delete Photographs from Website**

Authorized users may remove photographs from the website.

**Use Case 9 List Conversations in Discussion Forum**

Users may view a list of current conversations listed by most recent activity or by date of discussion thread creation.

**Use Case 10 Read Responses from a Specific Discussion Thread**

Users may select a discussion from the list to read all responses.

**Use Case 11 Submit a Response to a Discussion Thread**

Users submit a response within a specific discussion thread which will be visible to all other users.

**Use Case 12 Create a New Thread in Discussion Forum**

Users may start a new conversation thread which will be open to responses from all other users.

**Use Case 13 Add a New Member to Database**

Administrators may create new accounts for member access to the discussion forum.

**Use Case 14 Delete a Member from the Database**

Administrators may remove accounts of members who are no longer affiliated with the association.

## Customer Priority Assignments

The following subsections of 2.4 detail the customer’s requirements for this project. Priorities are assigned to each functional module of the project.

## 2.4.1 Member Login - High

Members will be able to establish a login for the website with approval from an administrator. The discussion forum will only be accessible to members which makes this function a high priority.

## 2.4.2 Discussion Forum - High

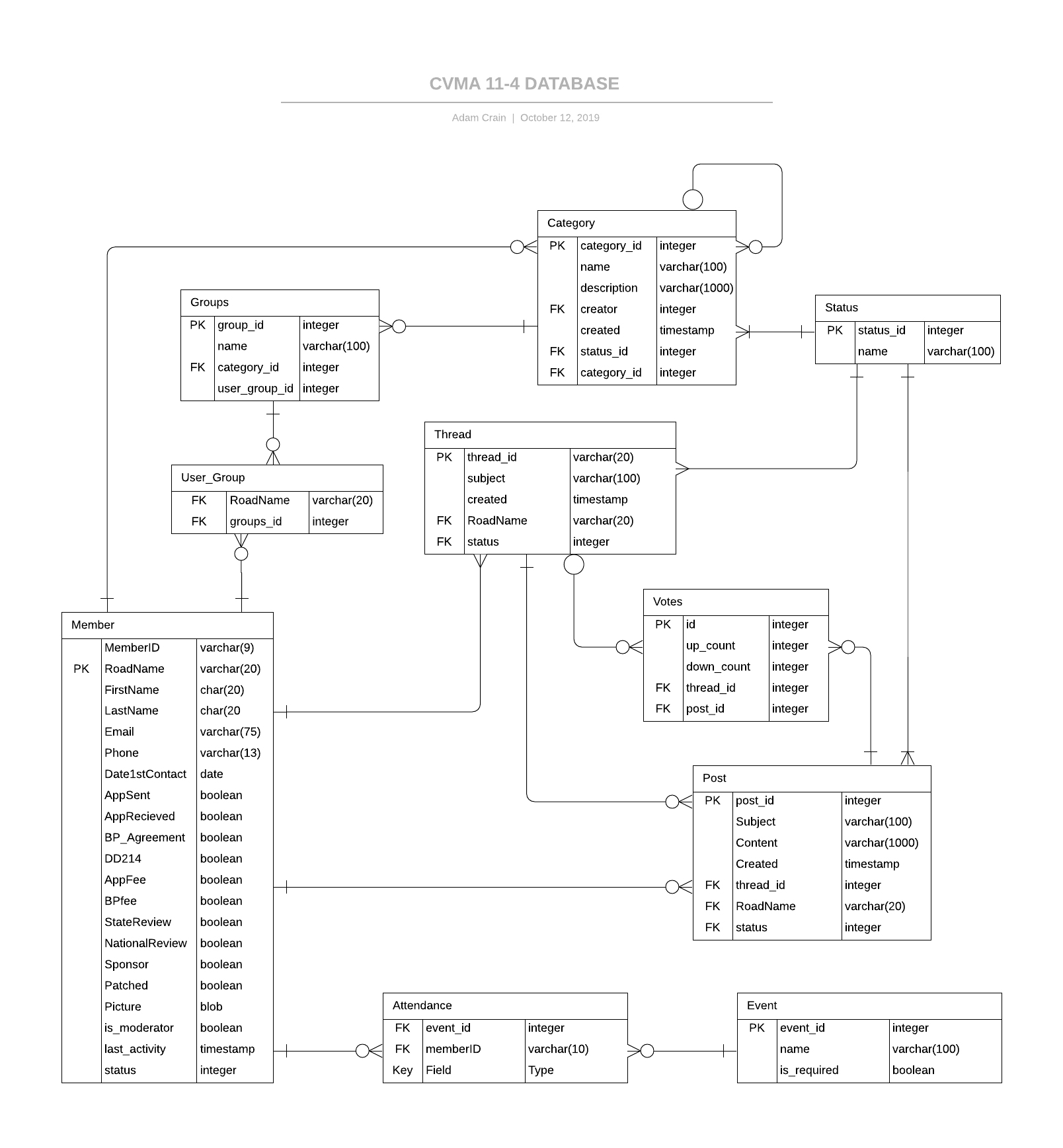
Members need a forum in which to discuss and coordinate upcoming fundraiser events and motorcycle rides.

## 2.4.3 Event Calendar - High

Establish a public facing calendar to post details regarding association meetings and fundraising events.

## 2.4.4 Database - High

A supporting database is required in order to provide functionality to the membership discussion forum.



## 

## 2.4.6 Contact Us – Medium

Provide a form for webpage visitors to contact the organization leadership directly.

## 2.4.7 Download Bylaws – Medium

Visitors who are interested in gaining a membership with the organization may download the association bylaws directly from the website for review.

## Operating Environment

Website must be compatible with all major web browsing applications including Chrome, Edge, Microsoft Internet Explorer, and Firefox.

## Design and Implementation Constraints

All software utilized must be open source/free license for use to keep costs to organization to webhosting services only.

## Software Interfaces

The HTML webpage will interface with the supporting MySQL database via PHP scripting language.

## Communications Interfaces

Communications between the webpage and the database will be done via https communication standard on port 443. Username and password fields will be encrypted prior to transmission.

# Coding

This section will contain coding used for the creation of webpages, communication with the database and SQL code used in the creation of the database.

## HTML Coding

<!DOCTYPE HTML>

<html>

<head>

<!-- InstanceBegin template="/Templates/slider.dwt" codeOutsideHTMLIsLocked="false" -->

<script type="text/javascript" src="js/jquery.js"></script> <script type="text/javascript" src="js/timothy.js">

</script> <script type="text/javascript" src="js/slider.js"></script> <script type="text/javascript" language="javascript">

$(document).ready(function(){

$(document).bind("contextmenu",function(e){

return false;

});

});

</script>

<!--This script disables the right click menu on your site-->

<script type="text/javascript" language="javascript">

$(document).ready(function(){

$(document).bind("contextmenu",function(e){

return false;

});

});

</script>

<link href="css/styles.css" rel="stylesheet" type="text/css" media="screen">

<link href="css/print.css" rel="stylesheet" type="text/css" media="print">

<link href="css/slider.css" rel="stylesheet" type="text/css" media="screen">

<script type="text/javascript"> // This is the script for the banner slider

$(document).ready(function() {

$('#slider').s3Slider({

timeOut: 3000

});

});

</script>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<meta http-equiv="Content-Type" content="cache" />

<META name="robots" content="NOINDEX, NOFOLLOW, NOYDIR, NOODP, NOARCHIVE" />

<META name="googlebot" content="NOARCHIVE, NOODP, NOSNIPPET" />

<META name="slurp" content="NOARCHIVE, NOYDIR, NOSNIPPET" />

<meta name="robots" content="noimageindex">

<title>CVMA 11-4</title>

<!-- Google Analytics Code Goes Below Here -->

<!-- End Google Analytics Code -->

<script>

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){

(i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o),

m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)

})(window,document,'script','//www.google-analytics.com/analytics.js','ga');

ga('create', 'UA-5475445-37', 'tmothyprojects.com');

ga('send', 'pageview');

</script>

</head>

<body>

<div id="wrapper">

<div id="top">

<div id="logo"><img src="images/vhv.jpg"/></div>

<div id="social-media">

<p>Connect With Us</p>

<ul>

<li><a href="http://www.facebook.com/CVMA11.4/"><img src="images/icons/facebook.png" width="24" height="24" /></a></li>

<li><a href="mailto:combatvets11.4@gmail.com"><img src="images/icons/gmail.png" width="24" height="24" /></a></li>

<p>For technical issues, contact the <a href="mailto:adam.crain@gmail.com" style="color:red;">webmaster.</a></p>

</ul>

</div>

</div>

<div id="topnav">

<ul>

<li><a href="index.html">WELCOME</a></li>

<li><a href="history.html">HISTORY</a></li>

<li><a href="photos.html">PHOTOS</a></li>

<li><a href="events.html">EVENTS</a></li>

<li><a href="joinus.html">JOIN US</a></li>

<li><a href="chapters.html">CHAPTERS</a></li>

<li><a href="contact.html">CONTACT</a></li>

<li><a href="forum.html">MEMBER FORUM</a></li>

</ul>

</div>

<div id="slider">

<ul id="sliderContent">

<li class="sliderImage"><img src="images/grp.jpg" /> <span class="top"><strong>This is an image title</strong></span> </li>

<li class="sliderImage"><img src="images/coins.png" width="900px" style="margin: 70px 0px"/> <span class="top"><strong>This is an image title</strong></span> </li>

<li class="sliderImage"><img src="images/group2.jpg" /> <span class="top"><strong>This is an image title</strong></span> </li>

<li class="sliderImage"><img src="images/vhv.png" width="800px" style="margin: 0px 50px"/> <span class="top"><strong>This is an image title</strong></span> </li>

<div class="clear sliderImage">

</div>

</ul>

</div>

<div id="subbanner">

<p>Camraderie and brotherhood among veterans who love to ride motorcycles. Vets helping vets, both within the association and throughout our local communities.

</p>

</div>

<div id="content">

<h1>We are Chapter 11-4 of the Combat Veterans Motorcycle Association</h1>

<h2>Located in Olympia, WA</h2><br/>

<p>We are an Association of Combat Veterans from all branches of the United States Armed Forces who ride motorcycles as a hobby. Our mission now is to support and defend those who have defended our country and our freedoms. Our focus is to help veteran care facilities provide a warm meal, clothing, shelter, and guidance, or simply to say "Thank You." and "Welcome Home."

</p>

<p>Our membership is comprised of Full Members ( those with verified combat service ) and Supporter Members ( those who have non-combat military service, and have a sincere dedication to helping veterans ). We have members from nearly all 50 states and living abroad. Many members continue to serve in our Armed Forces, with several serving in combat areas now.

</p>

<p>We sponsor and/or participate in many motorcycle-related charity events each year, and as a non-profit organization, donate to various veteran care facilities and veteran charities.

</p>

<img src="images/1.jpg" width="215" height="180"><img src="images/3.jpg"> <img src="images/2.jpg" />

<h2>Heading Level Two On Page</h2>

<p>More page content will be added here.</p>

<p><strong>This might be a bold statement about the organization.</strong></p>

<p>More details to follow here.

</p>

</div>

<div id="rightside"><!-- InstanceBeginEditable name="Sidebar" -->

<h2>Calendar of Events</h2>

<p>Click on the calendar below to see our upcoming events and meetings.

</p>

<p><a href = "https://calendar.google.com/calendar/b/2?cid=Y29tYmF0dmV0czExLjRAZ21haWwuY29t" target="\_blank"><img src="images/calendar-icon.jpg" width="175" height="129"></a></p>

<p>More details and content.</p>

<h2>Sidebar Title</h2>

<p>And more info if we have something to share here.

</p>

</div>

<div id="footer">

<font size=3>

<p class="footer-text">&copy;Copyright 2020 Combat Veterans Motorcycle Association 11-4. We are a 501(c)(19) Non-Profit Veterans' Organization</p>

</font>

</div>

</div>

</body>

</html>

## CSS Coding

html, body {

margin: 0;

padding: 0;

border: 0;

background: transparent;

font-size:10px;

}

div, span, article, aside, footer, header, hgroup, nav, section,

h1, h2, h3, h4, h5, h6, p, blockquote, a, ol, ul, li,

table, tr, th, td, tbody, tfoot, thead {

margin: 0;

padding: 0;

border: 0;

vertical-align: baseline;

background: transparent;

}

img {margin:0; padding:0; border:0;}

table, tr, th, td, tbody, tfoot, thead {

margin: 0; padding: 0; border: 0;

vertical-align: baseline;

background: transparent;

}

table {border-collapse: collapse; border-spacing: 0;}

input, select, textarea, form, fieldset {

margin: 0; padding: 0; border: 0;

}

article, aside, dialog, figure, footer, header, hgroup, nav, section {display:block;}

h1, h2, h3, h4, h5, h6, p, li, blockquote, td, th, a, caption, em, strong, strike {

font-family: Arial, Helvetica, sans-serif;

font-size:100%;

font-weight: normal;

font-style: normal;

line-height: 100%;

text-indent: 0;

text-decoration: none;

text-align: left;

color: #000;

}

ol, ul {list-style: none;}

/\* Global \*/

html { }

body {background-color:#800000; text-align:center;}

/\* Headings \*/

h1, h2, h3, h4, h5, h6 {font-weight: bold; color: #000;}

h1 {font-size:32px;}

h2 {font-size:20px;}

h3 {font-size:16px;}

h4 {font-size:14px;}

h5 {font-size:14px;}

h6 {font-size:14px;}

h1 img, h2 img, h3 img, h4 img, h5 img, h6 img {margin: 0;}

/\* Text Elements \*/

p {color:#000; font-size:12px; line-height:150%;}

p .left { margin: 1.5em 1.5em 1.5em 0; padding: 0; }

p .right { margin: 1.5em 0 1.5em 1.5em; padding: 0; }

a { }

a:link { color: #00f; }

a:visited { color: #0f0; }

a:active { color: #000; }

a:focus { color: #666; }

a:hover { color: #f00; }

blockquote { color:#000; font-size:12px; }

strong { font-weight: bold; }

em { font-style: italic; }

/\* Images \*/

/\* Lists \*/

ul { }

ol { list-style-type:decimal; }

ul li { color:#000; font-size:12px; }

ol li { color:#000; font-size:12px; }

dl { }

dt { }

dd { }

/\* Tables \*/

table {width:100%; }

tr { }

.odd { background-color:#eee; }

.even { background-color:#fff; }

th { font-weight: bold; }

thead, th { background: #ccc; }

tbody { }

th,td,caption { }

caption { }

tfoot { }

.tfooter { background-color:#ccc; text-align:center; font-style:italic; }

caption { background: #efefef; }

/\* Miscellaneous \*/

sup, sub { line-height: 0; }

abbr, acronym { border-bottom: 1px dotted #666; }

address { }

del { background:#FFCECE; color:#f00; }

code, pre { background-color:#FF9; padding:2px 0px; margin:4px 25px;

font-family:"Courier New", Courier, monospace; font-size:12px; font-weight:normal; line-height:150%; }

/\* Containers \*/

#wrapper { width:900px; margin:0 auto; background-color:#fff; }

#top {background-color:#000; width:100%; overflow: hidden; padding:20px 0; border-bottom:#eee;}

#logo { float:left; margin:0 0 0 10px; }

#social-media { float:right; margin:0 10px 0 0; text-align:left; }

#social-media ul { }

#social-media ul li { display:inline; }

#social-media ul li a { }

#social-media p { color:#fff; margin:4px 10px 4px 0px; font-size:11px; }

#topnav { clear:both; background-color:#333; }

#topnav ul { width:100%; float:left; margin:0px 0; background-color:#333; border-bottom:3px #ccc solid; }

#topnav ul li { display:inline; }

#topnav ul li a { float:left; padding:10px 20px; }

#topnav a:link { color:#fff; }

#topnav a:visited { color:#fff; }

#topnav a:active { color:#fff; }

#topnav a:hover { color:#fff; background-color:#900; }

#topnav a:focus { color:#fff; }

#banner { }

#subbanner { width:100%; background-color:#555; overflow:hidden; padding:10px 0; }

#subbanner p { line-height:180%; font-size:16px; font-weight:bold; color:#fff; text-align:center; }

#rightside { padding:20px; margin-left:670px; }

#rightside h2 { color:#600; margin:20px 0 10px 0;}

#rightside p { line-height:150%; margin:5px 0; }

#content { float:left; width:650px; padding:20px; }

#content h1 { margin:0 0 20px 0; border-bottom:1px #999 solid; padding:20px 0; }

#content h2 { margin:30px 0 10px 0; }

#content p { line-height:150%; margin:10px 10px 0 0; }

#content img { padding:8px; border:1px #ccc solid; margin:8px; }

#footer { clear:both; padding:10px 0; background-color:#000; }

#box1 { }

#box2 { }

#box3 { }

#box4 { }

#box5 { }

#box6 { }

/\* Forms \*/

form ol { list-style-type:none; }

form { text-align:left; margin:20px;}

label { float: left; width: 150px; margin-top:5px; text-align:right; display:block; background:none; font-weight:bold;}

submit { background:none; }

input { width: 280px; margin:0 0 16px 10px; border:1px #bbb solid; padding:5px; background:none; }

input:focus, textarea:focus { background-color:#EFDEDE; }

textarea {width: 280px; height: 150px; margin:0 0 16px 10px; border:1px #bbb solid; padding:5px; background:none; }

select { margin-bottom:20px;}

.month { margin-left:155px;}

.submit {width:90px; height:25px; margin-left:170px; font-size:12px;}

br { clear: left; }

.clear { clear:both; }

/\* Miscellaneous \*/

.copyright-text { font-size:80%; font-style:italic; color:#333; }

.footer-text { font-size:80%; font-style:normal; color:#fff; text-align:center; }

.title { font-size:18px; font-weight:bold; color:#333; }

.subtitle { font-size:14px; font-style:italic; color:#333; }

.artist { font-size:16px; font-weight:bold; color:#333; }

.author { font-size:14px font-weight:bold; color:#555; }

.editor { font-size:14px font-style:italic; color:#555; }

.pub-date { font-size:10px font-style:italic; color:#555; }

.article-date { font-size:10px font-style:italic; color:#555; }

.location { font-size:10px font-style:italic; color:#555; }

.float-right { float:right; }

.float-left { float:left; }

.clear { clear:both; }

.hide { display:none; }

.block { display:block; }

.inline { display:inline; }

.first { font-weight:bold; }

.last { font-weight:bold; }

.left { font-weight:bold; text-align:left; }

.right { font-weight:bold; text-align:right; }

.added { background:#D7D7FF; }

.removed { background:#FFCECE; color:#f00; }

.changed { background:#FFB; }

/\* Success, info, notice and error/alert boxes - from Blueprint CSS Framework \*/

.error, .alert, .notice, .success, .info {padding: 0.8em; margin-bottom: 1em; border: 2px solid #ddd; }

.error, .alert { background: #fbe3e4; color: #8a1f11; border-color: #fbc2c4; }

.notice { background: #fff6bf; color: #514721; border-color: #ffd324; }

.success { background: #e6efc2; color: #264409; border-color: #c6d880; }

.info { background: #d5edf8; color: #205791; border-color: #92cae4; }

.error a { color: #8a1f11; }

.alert a { color: #8a1f11; }

.notice a { color: #514721; }

.success a { color: #264409; }

.info a { color: #205791; }

## PHP Coding

<?php

define('IN\_PHPBB', true);

$phpbb\_root\_path = (defined('PHPBB\_ROOT\_PATH')) ? PHPBB\_ROOT\_PATH : './';

$phpEx = substr(strrchr(\_\_FILE\_\_, '.'), 1);

include($phpbb\_root\_path . 'common.' . $phpEx);

include($phpbb\_root\_path . 'includes/functions\_display.' . $phpEx);

// Start session management

$user->session\_begin();

$auth->acl($user->data);

$user->setup('viewforum');

// Mark notifications read

if (($mark\_notification = $request->variable('mark\_notification', 0)))

{

if ($user->data['user\_id'] == ANONYMOUS)

{

if ($request->is\_ajax())

{

trigger\_error('LOGIN\_REQUIRED');

}

login\_box('', $user->lang['LOGIN\_REQUIRED']);

}

if (check\_link\_hash($request->variable('hash', ''), 'mark\_notification\_read'))

{

/\* @var $phpbb\_notifications \phpbb\notification\manager \*/

$phpbb\_notifications = $phpbb\_container->get('notification\_manager');

$notification = $phpbb\_notifications->load\_notifications('notification.method.board', array(

'notification\_id' => $mark\_notification,

));

if (isset($notification['notifications'][$mark\_notification]))

{

$notification = $notification['notifications'][$mark\_notification];

$notification->mark\_read();

/\*\*

\* You can use this event to perform additional tasks or redirect user elsewhere.

\*

\* @event core.index\_mark\_notification\_after

\* @var int mark\_notification Notification ID

\* @var \phpbb\notification\type\type\_interface notification Notification instance

\* @since 3.2.6-RC1

\*/

$vars = array('mark\_notification', 'notification');

extract($phpbb\_dispatcher->trigger\_event('core.index\_mark\_notification\_after', compact($vars)));

if ($request->is\_ajax())

{

$json\_response = new \phpbb\json\_response();

$json\_response->send(array(

'success' => true,

));

}

if (($redirect = $request->variable('redirect', '')))

{

redirect(append\_sid($phpbb\_root\_path . $redirect));

}

redirect($notification->get\_redirect\_url());

}

}

}

display\_forums('', $config['load\_moderators']);

$order\_legend = ($config['legend\_sort\_groupname']) ? 'group\_name' : 'group\_legend';

// Grab group details for legend display

if ($auth->acl\_gets('a\_group', 'a\_groupadd', 'a\_groupdel'))

{

$sql = 'SELECT group\_id, group\_name, group\_colour, group\_type, group\_legend

FROM ' . GROUPS\_TABLE . '

WHERE group\_legend > 0

ORDER BY ' . $order\_legend . ' ASC';

}

else

{

$sql = 'SELECT g.group\_id, g.group\_name, g.group\_colour, g.group\_type, g.group\_legend

FROM ' . GROUPS\_TABLE . ' g

LEFT JOIN ' . USER\_GROUP\_TABLE . ' ug

ON (

g.group\_id = ug.group\_id

AND ug.user\_id = ' . $user->data['user\_id'] . '

AND ug.user\_pending = 0

)

WHERE g.group\_legend > 0

AND (g.group\_type <> ' . GROUP\_HIDDEN . ' OR ug.user\_id = ' . $user->data['user\_id'] . ')

ORDER BY g.' . $order\_legend . ' ASC';

}

$result = $db->sql\_query($sql);

/\*\* @var \phpbb\group\helper $group\_helper \*/

$group\_helper = $phpbb\_container->get('group\_helper');

$legend = array();

while ($row = $db->sql\_fetchrow($result))

{

$colour\_text = ($row['group\_colour']) ? ' style="color:#' . $row['group\_colour'] . '"' : '';

$group\_name = $group\_helper->get\_name($row['group\_name']);

if ($row['group\_name'] == 'BOTS' || ($user->data['user\_id'] != ANONYMOUS && !$auth->acl\_get('u\_viewprofile')))

{

$legend[] = '<span' . $colour\_text . '>' . $group\_name . '</span>';

}

else

{

$legend[] = '<a' . $colour\_text . ' href="' . append\_sid("{$phpbb\_root\_path}memberlist.$phpEx", 'mode=group&amp;g=' . $row['group\_id']) . '">' . $group\_name . '</a>';

}

}

$db->sql\_freeresult($result);

$legend = implode($user->lang['COMMA\_SEPARATOR'], $legend);

// Generate birthday list if required ...

$show\_birthdays = ($config['load\_birthdays'] && $config['allow\_birthdays'] && $auth->acl\_gets('u\_viewprofile', 'a\_user', 'a\_useradd', 'a\_userdel'));

$birthdays = $birthday\_list = array();

if ($show\_birthdays)

{

$time = $user->create\_datetime();

$now = phpbb\_gmgetdate($time->getTimestamp() + $time->getOffset());

// Display birthdays of 29th february on 28th february in non-leap-years

$leap\_year\_birthdays = '';

if ($now['mday'] == 28 && $now['mon'] == 2 && !$time->format('L'))

{

$leap\_year\_birthdays = " OR u.user\_birthday LIKE '" . $db->sql\_escape(sprintf('%2d-%2d-', 29, 2)) . "%'";

}

$sql\_ary = array(

'SELECT' => 'u.user\_id, u.username, u.user\_colour, u.user\_birthday',

'FROM' => array(

USERS\_TABLE => 'u',

),

'LEFT\_JOIN' => array(

array(

'FROM' => array(BANLIST\_TABLE => 'b'),

'ON' => 'u.user\_id = b.ban\_userid',

),

),

'WHERE' => "(b.ban\_id IS NULL OR b.ban\_exclude = 1)

AND (u.user\_birthday LIKE '" . $db->sql\_escape(sprintf('%2d-%2d-', $now['mday'], $now['mon'])) . "%' $leap\_year\_birthdays)

AND u.user\_type IN (" . USER\_NORMAL . ', ' . USER\_FOUNDER . ')',

);

/\*\*

\* Event to modify the SQL query to get birthdays data

\*

\* @event core.index\_modify\_birthdays\_sql

\* @var array now The assoc array with the 'now' local timestamp data

\* @var array sql\_ary The SQL array to get the birthdays data

\* @var object time The user related Datetime object

\* @since 3.1.7-RC1

\*/

$vars = array('now', 'sql\_ary', 'time');

extract($phpbb\_dispatcher->trigger\_event('core.index\_modify\_birthdays\_sql', compact($vars)));

$sql = $db->sql\_build\_query('SELECT', $sql\_ary);

$result = $db->sql\_query($sql);

$rows = $db->sql\_fetchrowset($result);

$db->sql\_freeresult($result);

foreach ($rows as $row)

{

$birthday\_username = get\_username\_string('full', $row['user\_id'], $row['username'], $row['user\_colour']);

$birthday\_year = (int) substr($row['user\_birthday'], -4);

$birthday\_age = ($birthday\_year) ? max(0, $now['year'] - $birthday\_year) : '';

$birthdays[] = array(

'USERNAME' => $birthday\_username,

'AGE' => $birthday\_age,

);

// For 3.0 compatibility

$birthday\_list[] = $birthday\_username . (($birthday\_age) ? " ({$birthday\_age})" : '');

}

/\*\*

\* Event to modify the birthdays list

\*

\* @event core.index\_modify\_birthdays\_list

\* @var array birthdays Array with the users birthdays data

\* @var array rows Array with the birthdays SQL query result

\* @since 3.1.7-RC1

\*/

$vars = array('birthdays', 'rows');

extract($phpbb\_dispatcher->trigger\_event('core.index\_modify\_birthdays\_list', compact($vars)));

$template->assign\_block\_vars\_array('birthdays', $birthdays);

}

// Assign index specific vars

$template->assign\_vars(array(

'TOTAL\_POSTS' => $user->lang('TOTAL\_POSTS\_COUNT', (int) $config['num\_posts']),

'TOTAL\_TOPICS' => $user->lang('TOTAL\_TOPICS', (int) $config['num\_topics']),

'TOTAL\_USERS' => $user->lang('TOTAL\_USERS', (int) $config['num\_users']),

'NEWEST\_USER' => $user->lang('NEWEST\_USER', get\_username\_string('full', $config['newest\_user\_id'], $config['newest\_username'], $config['newest\_user\_colour'])),

'LEGEND' => $legend,

'BIRTHDAY\_LIST' => (empty($birthday\_list)) ? '' : implode($user->lang['COMMA\_SEPARATOR'], $birthday\_list),

'S\_LOGIN\_ACTION' => append\_sid("{$phpbb\_root\_path}ucp.$phpEx", 'mode=login'),

'U\_SEND\_PASSWORD' => ($config['email\_enable']) ? append\_sid("{$phpbb\_root\_path}ucp.$phpEx", 'mode=sendpassword') : '',

'S\_DISPLAY\_BIRTHDAY\_LIST' => $show\_birthdays,

'S\_INDEX' => true,

'U\_MARK\_FORUMS' => ($user->data['is\_registered'] || $config['load\_anon\_lastread']) ? append\_sid("{$phpbb\_root\_path}index.$phpEx", 'hash=' . generate\_link\_hash('global') . '&amp;mark=forums&amp;mark\_time=' . time()) : '',

'U\_MCP' => ($auth->acl\_get('m\_') || $auth->acl\_getf\_global('m\_')) ? append\_sid("{$phpbb\_root\_path}mcp.$phpEx", 'i=main&amp;mode=front', true, $user->session\_id) : '')

);

$page\_title = ($config['board\_index\_text'] !== '') ? $config['board\_index\_text'] : $user->lang['INDEX'];

/\*\*

\* You can use this event to modify the page title and load data for the index

\*

\* @event core.index\_modify\_page\_title

\* @var string page\_title Title of the index page

\* @since 3.1.0-a1

\*/

$vars = array('page\_title');

extract($phpbb\_dispatcher->trigger\_event('core.index\_modify\_page\_title', compact($vars)));

// Output page

page\_header($page\_title, true);

$template->set\_filenames(array(

'body' => 'index\_body.html')

);

page\_footer();

# Testing

## Functional Testing

Functional Testing included testing of all links, downloads, pictures, event calendar, and member discussion forum on the following platforms: Chrome, Edge, Internet Explorer, Firefox

Total number of tests: 173

Tests Passed: 173

Tests Failed: 0

Test Pass Ratio: 100%

## Security Testing

# Implementation and Turnover

Implementation and turnover are currently on hold due to COVID-19. I will follow up with the Association once distancing restrictions have been relaxed.

## 5.1 Considerations

Expected number of users on the website at any given time must be considered when deciding on a webhosting provider to avoid any lag in website performance.

Appendix A: Glossary

Application: The completed software.

HTTPS: Hyper Text Transfer Protocol Secure. A communications protocol over which data is sent securely between the application and the webserver.

Stakeholder: Investors and developers of the application with a primary interest in the success of the project.

User: Anyone who will utilize the website.