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| RPGCor |
| St. Paul USBC Association Website Design |
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| Ryan Gau  1/24/2013 |

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RPGCor Estimate

St. Paul USBC Association Website Design

# Document Info

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| --- | --- | --- |
| Date | Person | Description |
| 1/24/2013 | Ryan Gau | Initial Creation |

# Overview

Currently the St. Paul USBC Association’s website is using outdated, non cross device friendly layout and design. We want to overhaul the website to accommodate new technology and want a mobile friendly layout as well. The ability to change the content to increase the updating of content to near instant updates for our guests to the site.

# Requirements

1. Hosting Provider must have MVC3 and .Net 4.0 to accommodate new technology
2. Redesigned look and feel featured around the USBC color scheme
3. Responsive design consideration for mobile users
4. Features:
   1. Tournaments
   2. Honor Scores
   3. Hall Of Fame
   4. Board Of Directors
   5. Award Form for non BLS users
   6. Site Map
   7. Search field
   8. External links
   9. Custom pages
5. Ability to update any content quickly

# Team Members

| **Name** | **Role** | **ARCI** |
| --- | --- | --- |
| Krey, Mimi | St. Paul USBC President | Approver |
| Gau, Ryan | Application Developer | Accountable |
| Streich, Dean | St. Paul USBC Director | Quality Analyst / Tester |

# Technical Details

Website will be built using a three tier approach utilizing the MVC framework with .NET 4.0 to allow absolute URL navigation to every available page. It will have a sequel server of at least Microsoft SQL 2008 to manage all website data and allow for instant update of content. Use of CSS3 to reduce the images necessary for a well rounded look, and javascript/jquery to enhance webpage flow without the need to reload the page every time a button is clicked. In case the browser does not support CSS#/javascript the website will fall back to a square box look and pages being reloaded every time a page is submitted. RSS will also be used in place of a newsletter to provide daily updates, if changed, of select content.

A description of the following technologies is listed below:

* .NET 4.0 – Allows the use of MVC3, the most stable version available at the moment
* MVC3 – Fluent, concise, consistent layout and URL navigation
* SQL2008 – Storage of all website textual content for dynamic, instant updating
* Entity Framework – Code first database design for easier database access and sorting of data
* CSS3 – Utilize new features such as rounded corners, translation and animations
* Javascript/JQuery – Provide client side abilities to reduce page reload times for form validation
* AutoMapper – Quickly map website form data to the database
* Ninject – Dependency injection for quick access to internal functionality
* iTextSharp – on the fly creation of PDFs
* RSS – Like a newsletter, provides daily updates of selected changes (Tournaments/Hall of Fame/etc…)

# Deliverables and Estimates

|  |  |  |  |
| --- | --- | --- | --- |
| **Deliverable** | **Task Details** | **Time / Estimate** | **Date** |
| Database Integration | On the fly dynamic changes | 50 hrs | 12/21/2012 |
| Device friendly layout and design | Site looks the same on any device | 15 hrs | 12/21/2012 |
| Tournament View | View current tournaments | 6 hrs | 01/04/2013 |
| Honor Score View | View honor score by category/type | 10 hrs | 01/04/2013 |
| Hall of Fame View | Master list of notable members | 6 hrs | 01/04/2013 |
| Hall of Fame  Profile View | Individual info for each member | 6 hrs | 01/04/2013 |
| Board View | View active board members | 6 hrs | 01/04/2013 |
| Navigation Management | Manage Navigation menu | 6 hrs | 01/04/2013 |
| Link management | Manage Link menu | 6 hrs | 01/04/2013 |
| Content Management | Manage widgets/pages/topics | 10 hrs | 01/04/2013 |
| Tournament Management | Create/Edit/Update/Delete tournaments | 6 hrs | 01/04/2013 |
| Hall of Fame Management | Create/Edit/Update/Delete Hall of Fame with picture | 10 hrs | 01/04/2013 |
| Board Management | Create/Edit/Update/Delete Board with position information | 10 hrs | 01/04/2013 |
| Localization Management | Create/Edit/Update/Delete  Any Text on site | 6 hrs | 01/04/2013 |
| User Management | Create/Edit/Update/Delete  User Roles and profiles | 10 hrs | 01/04/2013 |
| Honor Management | Create/Edit/Update/Delete Honors scores by category/type | 12 hrs | 01/04/2013 |
| Site Map | List internal links based on navigation/links/pages/topics | 6 hrs | 01/04/2013 |
| Award Form | Fill out award form and not be able to submit form until it passes validation | 30 hrs | 01/18/2013 |
| Award Management | View/Print awards | 10 hrs | 01/18/2013 |
| RSS Feed | Near instant update of selected content  Tournament/Hall of Fame/Board | 8 hrs | 01/18/2013 |
| Search Bar | Search for any internal content | 6 hrs | 01/23/2013 |
| Share Button | Ability to share any page to networking site | 4 hrs | 01/23/2013 |
| Hall Of Fame | Sort Columns | 4 hrs | 01/23/2013 |
| Board Member History | History View | 6 hrs | 01/23/2013 |

# Costs

|  |  |  |  |
| --- | --- | --- | --- |
| **Product** | **Description** | **Payment** | **Amount** |
| Domain Name | stpaulbowl.org | Annual | $20.00 |
| Website Hosting | GoDaddy Economy  Windows Grid Hosting | Annual | $80.00 |
| Domain Transfer | Transfer To GoDaddy | One Time | $18.00 |
| CKFinder | File Management Utility | One Time | $60.00 |