DATA FRAMEWORK AND MANAGEMENT SYSTEM

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1. Introduction
2. Technology
3. Web application screen shots
4. AWS future enhancement.
5. SDLC cycle
The aim of this project is to design a system for managing multiple database networks. The end user is concerned about the computations that depend on information from several data sources, will access this database from a web page.
Technology

- Excellent documentation: It has really good documentation with helpful user-contributed code snippets. You can also find tons of tutorials, etc. around the web.

- Optimized for making web applications quickly. PHP is designed to work well with the web, and so things like accessing the GET and POST and working with HTML and URLs are built-ins in the PHP language.
Continue

- **HTML**: It stands for Hyper Text Markup language and used to build the basic structure of any page.
- **JavaScript**: JavaScript is the programming language of HTML and the Web.
- Programming makes computers do what you want them to do. JavaScript is easy to learn.
Week – Wise Implementation

- Week 1: Discussed about the project abstract.
- Week 2: Researched on MySQL to store the data sources.
- Week 3: As per the feedback from the Instructor we switched from MySQL to cloud technology.
- Week 4: Upon researching we found Qlik desktop application.
- Week 5: As per the Instructor’s feedback started requirement gathering.
- Week 6–8: Started Implementation using Agile Methodology.
- Week 9: Testing and performance finding and resolving bottlenecks.
We have used Wamp Server Version 2.5 for hosting our application on local machine.

The application can be integrated with cloud(AWS) in future if required.
Scenario

- Step 1: Select the data source
- Step 2: Using the dashboard store the data source
- Step 3: Using the view page analyze the datasourcce
Implementation

Step 1

Step 2

Step 3
Features in Dashboard

- It lets the end user upload following type of data types
  - 1. PDF
  - 2. CSV
  - 3. WORD
  - 4. TEXT
  - 5. JPEG
$(function(){

  // if the parameter is not 'adduser' and not 'logout'
  if (${vParam} != "adduser" && ${vParam} != "logout") {
    $('#header').load("header.php");
  }

  $('form').submit(function(event) {
    var $this = $(this);
    var action = $(this).attr('action');
    // hide the submit and reset buttons
    $this.find(':submit').hide();
    $this.find(':reset').hide();
    // process the form
    $.ajax({
      type: 'POST', // define the type of HTTP verb we want to use (POST for our form)
      url: action, // the url where we want to POST
      data: $this.serialize(), // our data object
      dataType: 'json', // what type of data do we expect back from the server
      encode: true,
      beforeSend: function (){
        $('.result').html('<img id="loader" src="images/ajax-loader.gif" alt="Loading" />');
      },
    });
    // using the done promise callback
    .done(function(res) {
      $('.div.result').removeClass('alert alert-success alert-danger');
      if (res.status) {
        $('.div.result').addClass('alert alert-success').html(res.message);
        if (res.redirectURL != "") {
          setTimeout("window.location='"+res.redirectURL+'"", 1000);
        }
      } else {
        $('.div.result').addClass('alert alert-danger').html(res.message);
        // console.log(res);
        // here we will handle errors and validation messages
      }
    });
    // stop the form from submitting the normal way and refreshing the page
    event.preventDefault();
});
Side view
Software Model
Software Model:
According to an InfoQ poll, the majority of firms use Agile techniques in some capacity for software development projects. But companies that have totally adopted Agile methodology for their projects "have definitely seen measurable improvements in time to market, product quality and customer satisfaction."
HTML and JAVASCRIPT

- HTML stands for Hyper Text Markup Language
- A markup language is a set of markup tags
- HTML documents are described by HTML tags
- Each HTML tag describes different document content.

JAVASCRIPT:

- JavaScript is the most popular programming language in the world.
- JavaScript to program the behavior of web pages
Future Enhancements

Cloud computing has become the new normal

Deploying new applications to the cloud by default

Migrating existing applications as quickly as possible
Sample MySQL Instance for future Enhancement

### Alarms and Recent Events
- **Nov 22 7:32 AM**: Finished DB Instance backup
- **Nov 22 7:30 AM**: Backing up DB instance

### Monitoring

<table>
<thead>
<tr>
<th>Resource</th>
<th>Current Value</th>
<th>Threshold</th>
<th>Last Hour</th>
<th>Current Value</th>
<th>Last Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>15.1%</td>
<td></td>
<td></td>
<td>Read IOPS</td>
<td>0/sec</td>
</tr>
<tr>
<td>Memory</td>
<td>177 MB</td>
<td></td>
<td></td>
<td>Write IOPS</td>
<td>0.317/sec</td>
</tr>
<tr>
<td>Storage</td>
<td>4,540 MB</td>
<td></td>
<td></td>
<td>Swap Usage</td>
<td>0.836 MB</td>
</tr>
</tbody>
</table>
The Rss Feed tab has been added into the project to help the end user such as student or instructor to get the latest information in the IT without wasting time.

The page contains famous website links which upon clicking will open up the respective website webpage which has the latest information.

If the user wants to save the information and upload it in the directory then they can do it.
RSS Feed


http://www.computerweekly.com/feature/All-flash-storage-vs-hybrid-flash-in-Russia-Price-and-performance-key


http://feedproxy.google.com/~r/techradar/allnews/~3/Ifk4cIws5xZ/story01.htm