Database Utilization In Web Systems

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Executive Summary

Databases are a crucial part of the computing world. While web systems is a new concept for me, this project is going to investigate a way to input data into a simple database using an HTML webpage form.

Schedule

Date		Task
Start	Finish	
October 3, 2014	October 10, 2014	Proposal
October 14, 2014	October 21, 2014	Create HTML layout draft
October 28, 2014	November 4, 2014	Create HW 7 assignment
November 7, 2014	November 14, 2014	Create HTML layout
November 15, 2014	November 21, 2014	Create other needed supporting files
November 22, 2014	December 9, 2014	Finalize/debug project

Functional Description

- The purpose of this project is to design an HTML document/web page that is able to take entered data and store it in the MySQL database located in the XAMPP software suite. The data that is input will be checked for correctness to ensure it is in the correct format. The types of data that will be needed to be entered are:

  - Name
  - Address
  - Telephone number
  - Sex
  - Email address

  - Database will assign a unique ID number per person
  - Database will auto set the date that the information was entered

System Requirements

For this project to work, server requirements are:

- PC capable of running Windows 7
- Any web browser
- Internet connection (if accessing from a different location)

System Requirements

User Interface – HTML layout that uses:

- Text input boxes
- Checkboxes and/or radio buttons

System Requirements

Process Logic:

- System needs to be able to add, update and or modify items in the MySQL database
- Database tables will be set up prior to a functioning project
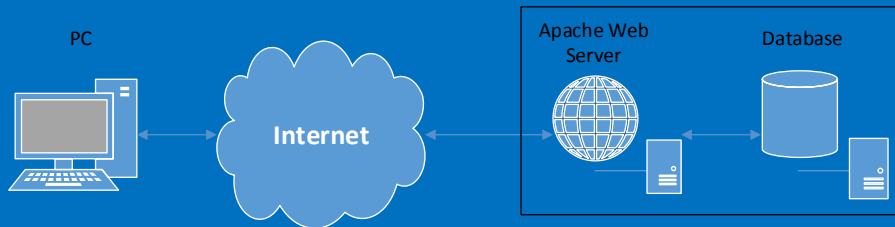
Major Components

Apache Web
Server

MySQL
Database

Infrastructure

PC

Internet

Apache Web Server

Database

If this was a real world project, its infrastructure would look similar to the whole drawing above. Because I am going to only be testing the page from the computer the server is installed on, the drawing would just be what is the box on the right side of the drawing.

System Interactions

HTML page

Process Data

Database

Input New data

Verify Data

Incorrect format: Error message

Correct format: Update sql statement