**Human Resources Web Application Project Plan**

Revision 5

UMUC CMSC495 7981: Current Trends and Projects in Computer Science

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**Revision Table**

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| --- | --- | --- | --- |
| Version | Modifications | Date modified | Members who modified |
| 1 | Initial document skeleton | 10/31/2017 | Galen Yanofsky |
| 2 | Specification\_Requirement.pdf; outlined Project Schedule and System Specifications;  introduction, abstract and objective(original) | 11/01/2017 | Pierre Lucceus |
| 3 | Outlined Abstract, Introduction, Objective, Software Management | 11/02/2017 | Galen Yanofsky |
| 4 | Added Revision Table section; edited content | 11/02/2017 | Douglas Evert |
| 5 | Edited content; arranged document to comply with professor’s specifications | 11/03/2017 | Alexander DeForge |

**Project Plan**

**Introduction:**

A small business owner wanted a way to manage his employee records. He wanted to be able to do this effectively while also delegating some control to each employee over their own record.

After our team sat down with the owner/client and learned more about his business and his expectations, we determined that the best course of action was a web application.

**Abstract:**

This human resources application was developed using the LAMP (Linux Apache MySQL PHP) stack with a simple user interface to allow users to securely login and perform duties applicable to the account.

Administrators are allowed CRUD (Create-Read-Update-Delete) privileges for all employee records. Other users will have some update privileges for their own account’s record.

The system was security hardened up to current standards based on the Open Web Application Security Project (OWASP)

**Objective:**

Create an intuitive and secure human resources web application for managing employee accounts comprised of but not limited to the following: name, salary, position, and demographic information.

**Requirement Specifications:**

See attached Requirements\_Specification.pdf

**System Specification:**

**Development platform:**

**Software requirements:**

* Eclipse IDE 4.3 or higher with PHP for Developers package.
* JDK 1.8 or higher (included in the installation package)

**Supported Databases:**

* SQL Server 2008 or newer

**Windows System Recommended Hardware Requirements:**

* CPU: 3.00 Ghz single core processor/2.00 Ghz dual core processor
* RAM: 2GB
* Free disk space: 80 GB
* Video card: Discrete graphics with 256MB video memory

**Linux System Recommended Hardware Requirements:**

* CPU: 3.00 Ghz single core processor/2.00 Ghz dual core processor
* RAM: 2GB
* Free disk space: 80 GB
* Video card: Discrete graphics with 256MB video memory

**Operation System requirement:**

* Microsoft Windows 7 or newer
* MacOS Sierra or newer
* Linux series(RedHat,Suse,Ubuntu)

**Operating platform:**

**Web Browser**

* Explorer/Microsoft Edge
* Chrome
* Safari
* Firefox

**Software Management:**

GitHub repository: https://github.com/douglas-evert/CMSC\_495

**Project Schedule:**

**Project Schedule:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Duration (Days)** | **Start Date** | **End Date** | **Personnel** |
| 1. Project Requirements    1. Writing    2. Review    3. Revise/Submit | 7  4  2  1 | 10/30  10/30  11/3  11/5 | 11/5  11/2  11/4  11/5 | ALL  ALL  ? |
| 1. Project Analysis    1. Analyzing    2. Review    3. Revise/Submit | 7  4  2  1 | 11/6  11/6  11/10  11/12 | 11/12  11/9  11/11  11/12 | ALL  ALL  ? |
| 1. Project Design   a.  b.  c. | 7  4  2  1 | 11/13  11/13  11/17  11/19 | 11/19  11/16  11/18  11/19 | ALL  ALL  ? |
| 1. Project Test Plan   a.  b.  c. | 7  4  2  1 | 11/20 | 11/26 |  |
| 1. Implementation and Testing   a.  b.  c. | 7  4  2  1 | 11/27 | 12/3 |  |
| 1. Final Deliveries (Code, Binaries, Test Data, User Guide) |  | 12/4 | 12/11 |  |

**References:**

Dr. Dao, H. (2017) Project Plan. *UMUC CMSC495 Ask The Professor*.

Meucci, M., & Muller, A. (2014) *OWASP Open Web Application Security Project Testing Guide 4.0 Release*. Maryland: The OWASP Foundation.