**Uncommon Solutions**

**Group 3**

**Overview**

**UNCOMMON SOLUTIONS OVERVIEW**

**Prepared By**

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| --- | --- |
| Document Owner(s) | Project Role |
| Michael Kiefer | Project Manager |

**Requirements Version Control**

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**Summary Details**

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| --- | --- |
| Participants | Name(s) |
| Project Manager: | Michael Kiefer |
| Project Team: | Hither Guzha – Technical Writer  Andrew Benson - Software Engineer  Donn Eddy - UX/HCI  Sean Mooneyham - Integration Engineer  Chase Thorpe - Test Engineer |
| End Users: | HR Departments |
| Description w/ Goal: | The purpose of this project is the implementation of an HR database and front end for personnel tracking. The Overview document provides a summary of the project effort and individual contributions. |

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# INTRODUCTION

## Purpose

The purpose of this document is to provide an overview of the development effort for the Uncommon Solutions HR Management System. The Uncommon Solutions HR Management System is being developed using an Agile SDLC framework. This document contains the necessary information required to effectively capture the development efforts of the team to include individual contributions based on assigned team roles.

## Background

The Uncommon Solutions HR Management System will be designed in a way that makes it easy to support multiple platforms such as Windows, macOS, iOS and Android. This web-based tool provides a direct method for storing and providing access to individual personnel records, and for all processes required for HR tracking and data aggregation requirements. The HR system will be implemented using AWS Elastic Compute Cloud (EC2) and Amazon’s Relational Database Service (RDS) in order to allow for universal deployability and access.

## Scope

This document covers the overall concept of the system implemented as the Uncommon Solutions project. It also includes a summary of individual contributions.

## Phases

The planned implementation of this project was broken down into three phases as follows:

1. Phase 1 consists of the creation of the database structure for information storage and the generation of the UI panels.
2. Phase 2 will consist of the functionality behind the login screen to include session management for the program. Additionally, user administration function to allow for management of user accounts will be implemented in this phase.
3. Phase 3 will consist of the data management functionality associated with this HR management system for the entry, modification, and management of the personnel information for the company.

## Schedule

The phased development schedule is a three-week process running from 18 November 2019 to 8 December 2019. There is an additional one-week flex time to allow for any schedule overruns and to allow for additional functionality to be added if time allows. This flex week runs from 9-15 December 2019.

## Design Considerations

The design for this program is as described in the Uncommon Solutions HR Management System Design Document. Any design variations will be validated by all members of the development team and incorporated into all design documentation to ensure that the entire development process is captured in documentation.

# System Overview

The system is a fairly simple implementation of a database and overlying UI for ease of customer access. Outside of the common login framework, the system branches to two different UIs depending on the account type being utilized. A system administrator account will go to the account management screen and have functionality and access not visible to any other users. The standard user accounts and more privileged user accounts will go to a separate screen with both individual HR record information but the ability to manage the records for other users with the correct privilege levels in place. For those users without elevated privilege, the additional management screens will not be visible.

By keeping the segregation between account management and data management we are adhering to a basic security tenet of least required privilege. A system administrator has no need to access the data within the HR system, and so is not even presented with the UI to access that information. By also including auditing of accesses, we can ensure that a trail will be present should any malicious attempt to access or abuse the system occur.

# Individual Contributions

## Michael Kiefer

As Project Manager Michael was responsible for the organization and division of project effort for the duration of this development effort. In addition, he took responsibility for ensuring final edits and compilation of group member efforts prior to submission for each assignment. Also, during the development phases Michael maintained an ongoing report of phase progress to ensure that all development efforts were proceeding as planned in the design phase and that the developed software fulfilled the planned requirements. Finally, Michael ensured that the final submission was complete and prepared for individual submission.

## Hither Guzha

As Technical Writer Hither was instrumental in setting the stage for the appropriate documentation of the project and development effort. Her initial submission of the Project Plan has been utilized as the baseline template for all documents produced by the team during the course of the project. Her initial lift has driven the team success through this project and she continued to be of great value in drafting/editing documentation to include the Users Guide, ensuring a seamless final delivery.

## Andrew Benson

As Software Engineer Andrew was initially just pushed for a look at design considerations and overall system concepts. Once we neared development, Andrew has been a solid pillar of the team, providing the initial UI wireframes for inclusion in the finalized design. After that, he executed everything required of him in each phase, from the basic UI display in Phase 1, to login and system account management in Phase 2, culminating in records display and editing based on user access level in Phase 3. Some minor issues identified in Phase 3 testing were rectified within the first 3 days of our flex week, leading to a finalized product that completed successful testing before the scheduled delivery date.

## Sean Mooneyham

As Integration Engineer Sean was instrumental in the success of the project. While there was some confusion as to what exactly this role encapsulated, Sean took it to be the management and integration of backend services to present to the frontend software. He was responsible for the implementation of our cloud-based architecture through the creation of AWS instances for database and hosting capabilities. Also he instantiated and controlled our development platform on GitHub. Additionally, Sean assisted all team member with accessing the development and integration environment as well as ensuring that our baseline was updated as required. Finally, Sean developed and delivered the access APIs for database to program connectivity.

## Donn Eddy

As the UX/HCI member of the team Donn provided valuable inputs to the initial user design for the system. His schedule limitations precluded his participation in a lot of the group collaboration directly, but our work via chat on discord provided the opportunity for him to add his piece. Our chosen project and implementation were entirely outside of his scope of experience so this was a significant challenge for him he was still able to contribute to the concepts outlined in the system design.

## Chase Thorpe

As Test Engineer Chase developed the Test Plan for our software. He then revised the test plan as the implementation was completed to ensure that all aspects of the software were being appropriately tested. Finally, Chase executed the Test Plan and recorded the results of the testing for feedback to the development team. In addition, Chase has been an active contributor in group collaboration for planning and design for the system, as well as stepping up to fill gaps as needed.

# APPROVALS

I have read the above Software Development progress report and agree that it is an accurate summary of software development efforts to date. I will continue to execute my proscribed tasks for each phase of development and pledge my full commitment and support for the Development Effort.

Sign-off Sheet

**Prepared by** \_\_\_Michael Kiefer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Manager– Michael Kiefer

**Approved by**\_\_\_Hither Guzha\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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