**Software Project Management Plan**

**MyTV Streaming Service**

**Team Members**

Sang Ly

Eric Chadwick

Nathan Roberts

Aaron Johnson

Nathaniel Peat

Document Control

**Change History**

|  |  |  |
| --- | --- | --- |
| **Revision** | **Change Date** | **Description of changes** |
| V1.0 | 09.30.2019 | Initial release |
|  |  |  |

**Document Storage**

This document is stored in the project’s GitHub repository at: https://github.com/umkc-cs-451-2019-fall/semester-group-assignment-team-best-group/tree/master/Docs

**Document Owner**

Sang Ly is responsible for developing and maintaining this document.**Table of Contents**

[1 Overview 4](#_Toc20330401)

[1.1 Purpose and Scope 4](#_Toc20330402)

[1.2 Goals and Objectives 4](#_Toc20330403)

[1.3 Project Deliverables 4](#_Toc20330404)

[1.4 Assumptions and Constraints 5](#_Toc20330405)

[1.5 Schedule and Budget Summary 6](#_Toc20330406)

[1.6 Success Criteria 7](#_Toc20330407)

[1.7 Definitions 7](#_Toc20330408)

[1.8 Evolution of the Project Plan 7](#_Toc20330409)

[2 Startup Plan 7](#_Toc20330410)

[2.1 Team Organization 7](#_Toc20330411)

[2.2 Project Communications 7](#_Toc20330412)

[2.3 Technical Process 7](#_Toc20330413)

[2.4 Tools 8](#_Toc20330414)

[3 Work Plan 8](#_Toc20330415)

[3.1 Activities and Tasks 8](#_Toc20330416)

[3.2 Release Plan 8](#_Toc20330417)

[3.3 Iteration Plans 9](#_Toc20330418)

[3.4 Budget 9](#_Toc20330419)

[4 Control Plan 9](#_Toc20330420)

[4.1 Monitoring and Control 9](#_Toc20330421)

[4.2 Project Measurements 9](#_Toc20330422)

[5 Supporting Process Plans 10](#_Toc20330423)

[5.1 Risk Management Plan 10](#_Toc20330424)

[5.2 Configuration Management Plan 10](#_Toc20330425)

[5.3 Verification and Validation Plan 10](#_Toc20330426)

[5.4 Product Acceptance Plan 10](#_Toc20330427)

# Overview

## Purpose and Scope

Streaming Services Service is an-all-in-one hosting website that allows consumers to view which streaming service have the best deals and helps the, to decide what to watch. This web service will be comparing five major streaming services. They include Sling, DirecTV Now, PlayStation Vue, Hulu Live TV, and YouTube Live.

The purpose of this project is to gather information about the streaming services, compare the prices to one another, and display the current best price for what the consumer wants to watch. This allows consumers to view a broader spectrum of streaming services and what they provide at what cost.

The project scope will include three main components. The first component deals with user/manager website account. Managers or administrators will have an account which will allow them to have full access to the webpage. Users with an account will get recommendations for the best services at the lowest cost based on what they search and/or watch. And lastly, consumers without an account will only be able to view the services with no recommendations of the current best services.

*Partial Example*

Users with an account will see a recommended list of movies from least expensive to most expensive.

## Goals and Objectives

1. To provide users with the cheapest combination of subscriptions that allows them to watch all their selected shows.
2. To allow users to find all services which carry a specific show.

## Project Deliverables

The following items will be delivered to the customers on or before 10/28/2019:

1. Sources code for the server portion of the system.
2. Sources code for the user interface of the log in page.
3. System Administrators Manual.
4. Test Plan.
5. System Test Cases.

The following items will be delivered to the customer on or before 11/11/2019:

1. Source code for the server portion of the system.
2. Source code for the user interface.
3. User’s Guide.
4. System Administrators Manual.
5. Test Plan.
6. System Test Case.

The following items will be delivered to the customer on or before 12/2/2019:

1. Final source code for the server portion of the system.
2. Final source code for the user interface.
3. User’s Guide.
4. System Administrators Manual.
5. Test Plan.
6. System Test Case.

## Assumptions and Constraints

Assumptions:

1. The Frontend and Backend software work on test hardware.

Constraints:

1. The web page must be able to load on a wide range of computing devices.
2. Managers account must be able to view all web page information.
3. Users account can only view their personal account information.
4. Non-Users may only view the webpage and nothing beyond.
5. The web page must be ready by 12/2/2019.

## Schedule and Budget Summary

|  |  |  |
| --- | --- | --- |
| Salaries:   * 1. Sang Ly   2. Eric Chadwick   3. Nathan Roberts   4. Aaron Johnson   5. Nathaniel Peat | Amount per hour:  $25.00  $25.00  $25.00  $25.00  $25.00 | Schedule:  6 hours per week  6 hours per week  6 hours per week  6 hours per week  6 hours per week |
| Total Salaries per week:  Total Salaries per month:  Total Salaries Project Life (10 weeks): | $750.00  $3,000.00  $7,500.00 |  |
| Total equipment cost:   * + 1. Database storage (yearly)     2. Server | $10,000.00  $7,500.00 |  |
|  | | |
| Total Project Cost: | $25,000.00 |  |

## Success Criteria

* Consumers must be able to log in.
* The service shows inexpensive subscriptions available for selected shows.
* Manager accounts must be able to access everything.

## Definitions

**Use case** – describes a goal-oriented interaction between the system and an actor. A use case may define several variants called scenarios that result in different paths through the use case and usually different outcomes.

**Project** – activities that will lead to the production of the product described here. Project issues are described in a separate project plan.

**Shall** – adverb used to indicate importance; indicates the requirement is mandatory. “Must” and “will” are synonyms for “shall”.

**Should** – adverb used to indicate importance; indicates the requirement is desired but not mandatory.

**May** – adverb used to indicate an option. For example, “The system may be taken offline for up to one hour every evening for maintenance.” Not used to express a requirement, but rather to specifically allow an option.

## Evolution of the Project Plan

**Update –** Update when plan diverge.

**Schedule –** Include iteration schedule.

# Startup Plan

## Team Organization

Project Leader: Eric Chadwick

Programmers (5): Sang Ly, Eric Chadwick, Nathan Roberts, Aaron Johnson, Nathaniel Peat

Tester: Sang Ly, Eric Chadwick, Nathan Roberts, Aaron Johnson, Nathaniel Peat

## Project Communications

* Slack

## Technical Process

* Comments your section of code.

## Tools

This section specifies the development tools the team will be using to perform their work.

* Programming Language – C#, HTML, CSS
* Storage – MySQL
* Version Control – source code and written artifacts will be stored in a Subversion repository.
* Build tools – local and main builds will be done using Visual Studio.
* Project Organization – Trello.

# Work Plan

## Activities and Tasks

|  |  |  |
| --- | --- | --- |
| Iteration 1 |  |  |
| Task: | Estimate (hour) | Actual (hour) |
| Research front end frameworks | 2 | 2 |
| Research back end frameworks | 2 | 2 |
| Pick frameworks for front and back end | 1 | .5 |
| Baseline Requirements | 2 | 5 |
| Write Project Plan | 3 | 8 |
| Write Project Charter | 2 | 5 |

## Release Plan

1. Log in function – Release on: 11/11/2019

2. Display inexpensive Subscription UI – release on: 12/2/2019

## Iteration Plans

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Iteration** | **Task** | **Assignee** | **Est. Hours** | **Actual Hours** |
| 1 | Assign roles | All | 1 |  |
| Research front end frameworks | Aaron, Sang | 2 |  |
| Research back end frameworks | Nathan, Nathaniel | 2 |  |
| Pick frameworks for front and back end | All | 1 |  |
| Baseline Requirements | Eric | 2 |  |
| Write Project Plan | Sang | 3 |  |
| Write Project Charter | Nathan | 2 |  |
|  |  |  |  |
| Totals |  | 13 | 0 |

## Budget

* Current: (2 weeks salaries + server cost + database storage)
  + $19,000
* Budget needed for completion
  + $6,000

# Control Plan

## Monitoring and Control

Bi-weekly – Team meeting. Project participants report status, progress and potential problems.

9/30/2019 – Design Review.

12/2/2019 – Executive Review.

## Project Measurements

|  |  |  |
| --- | --- | --- |
| **Phase** | **Measurement** | **Source** |
| Release Planning | 50 hours’ worth of effort – server portion and log in UI  150 hours’ worth of effort – server portion and subscription UI | Mgr. |
| Iteration Planning | Estimate worth of effort:  2 hours – Research front end frameworks  2 hours – Research back end frameworks  0.5 hours – pick frameworks for front and back end  2 hours – Baseline Requirements document  2 hours – Write Project Charter document  3 hours – Write Project Plan document | Mgr. |
| Iteration Closeout | Actual effort:  2 hours – Research front end frameworks  2 hours – Research back end frameworks  0.5 hours – pick frameworks for front and back end  4 hours – Baseline Requirements document  4 hours – Write Project Charter document  6 hours – Write Project Plan document | Mgr./Pgr. |

# Supporting Process Plans

## Risk Management Plan

1. Database incompatible.

a. Solution: find another Database.

## Configuration Management Plan

1. All work and code will be stored on GitHub.

## Verification and Validation Plan

The Verification and Validation plan is specified as a separate documented located in the version control system at: https://github.com/umkc-cs-451-2019-fall/semester-group-assignment-team-best-group/tree/master/Docs

## Product Acceptance Plan

* Acceptable:
  + Finding the inexpensive subscription available and present to consumers.