Requirements Specification

for

Dungeon Crawlers Repository

**February 2015**

**Version 0.1**

**Prepared By**

**Dungeon Crawlers**

**Change History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Updated By** |
| 5 February 2015 | 0.1 | Initial Draft | Dungeon Crawlers |

**Document Approvals**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Signature** |
|  |  |  |

**Table of Contents**

Contents

[1 Introduction 3](#_Toc410913916)

[1.1 Purpose 3](#_Toc410913917)

[1.2 Document Conventions 3](#_Toc410913918)

[1.3 Project Scope 3](#_Toc410913919)

[1.4 References 3](#_Toc410913920)

[2 System Description 3](#_Toc410913921)

[3 Functional Requirements 3](#_Toc410913922)

[3.1 System Features 3](#_Toc410913923)

[3.1.1 System Feature 1 3](#_Toc410913924)

[3.1.2 System Feature 2 3](#_Toc410913925)

[3.1.3 System Feature 3 4](#_Toc410913926)

[3.1.4 System Feature 4 4](#_Toc410913927)

[3.1.5 System Feature 5 4](#_Toc410913928)

[3.1.6 System Feature 6 4](#_Toc410913929)

[3.1.7 System Feature 7 4](#_Toc410913930)

[3.1.8 System Feature 8 4](#_Toc410913931)

[3.2 Use Cases 4](#_Toc410913932)

[3.2.1 Use Case 1 4](#_Toc410913933)

[3.2.2 Use Case 2 4](#_Toc410913934)

[3.2.3 Use Case 3 5](#_Toc410913935)

[3.2.4 Use Case 4 5](#_Toc410913936)

[4 Technical Requirements (Non functional) 5](#_Toc410913937)

[4.1 Performance 5](#_Toc410913938)

[4.2 Scalability 6](#_Toc410913939)

[4.3 Security 6](#_Toc410913940)

[4.4 Maintainability 6](#_Toc410913941)

[4.5 Usability 6](#_Toc410913942)

[4.6 Multi lingual Support 6](#_Toc410913943)

[4.7 Auditing and Logging 6](#_Toc410913944)

[4.8 Availability 6](#_Toc410913945)

[5 Open Issues 6](#_Toc410913946)

# Introduction

## Purpose

This website will provide users with a central hub for custom content in popular tabletop roleplaying games such as Dungeons and Dragons, Pathfinder, Call of Cthulu, etc... Users will be able to search through a database for custom rules and content for the game of their choice, as well as contribute their own content to the database.

## Document Conventions

RPG – acronym for “role playing game”. A role playing game is any game where players assume the roles of characters in a fictional setting.

Tabletop RPG – A role playing game in which players describe their character and their character's actions primarily through speech. These RPGs usually have a set of rules that determine the success of characters' actions.

Homebrew – Content that has been created for use in a particular tabletop game, but is not a part of the official ruleset of the tabletop game in question.

## Project Scope

We will be creating a website that will give fans of tabletop RPGs a place where they may share and receive feedback on their homebrew content for their favourite tabletop games. This project will be completed by May, 2015. The website will include a sign up and contribution system that will allow users to share their favourite homebrew content, as well as a rating and commenting system for each contribution that will allow the contributor to receive feedback on their content.

## References

Goldilocks Approach*: http://goldilocksapproach.com/*

# System Description

We are building a website that will link to a server and reads and writes to a mysequal database.

# Functional Requirements

## System Features

### System Feature 1

The system shall be able to store user profiles.

### System Feature 2

The user shall be able to contribute their homebrew content and rulesets through a form system.

### System Feature 3

The user shall be able to search a database of contributions.

### System Feature 4

Users shall be able to provide feedback to contributions through a commenting system.

### System Feature 5

Users shall be able to rate contributions on a 5 star system. The system will organise contributions based on this data.

### System Feature 6

Users shall be able to favorite contributions and have them display in a list on their user profile page.

### System Feature 7

The system shall display lists of contributions on the homepage such as “hot contributions”, top contributions, new contributions, etc…

### System Feature 8

The system shall host a forum in which registered users may discuss broad topics about tabletop gaming and other subjects.

## Use Cases

### Use Case 1

|  |  |
| --- | --- |
| **ID** | UC1 |
| **Description** | This user creates and submits contributions. |
| **Actors** | Logged users |
| **Preconditions** | User must be logged in to the system |
| **Basic Steps** | User logs in, user goes to contribution page, user fills out contribution form, user submits contribution, contribution is stored in database |
| **Alternate Steps** | N/A |
| **Exceptions** | Alert user to the error. |

### Use Case 2

|  |  |
| --- | --- |
| **ID** | UC2 |
| **Description** | A user searches for contributions. |
| **Actors** | Any user. |
| **Preconditions** | None |
| **Basic Steps** | User accesses homepage, types in search criteria in search bar, presses the search button, receives a list of contributions related to his search criteria. |
| **Alternate Steps** | N/A |
| **Exceptions** | 0 results found. |

### 

### Use Case 3

|  |  |
| --- | --- |
| **ID** | UC3 |
| **Description** | A user rates or comments on a contribution |
| **Actors** | Logged users |
| **Preconditions** | User must be logged into the system and viewing a contribution. |
| **Basic Steps** | User logs into the system, user selects a contribution, user, submits a comment using a small form at the bottom of the page |
| **Alternate Steps** | N/A |
| **Exceptions** | User is not logged in. |

### 

### Use Case 4

|  |  |
| --- | --- |
| **ID** | UC4 |
| **Description** | A user private messages another user. |
| **Actors** | 2 users: One is the sender, the other, the receiver |
| **Preconditions** | The sender must be logged in to send a message, and the receiver must be logged in to view the message. |
| **Basic Steps** | User accesses homepage, types in search criteria in search bar, presses the search button, receives a list of contributions related to his search criteria. |
| **Alternate Steps** | N/A |
| **Exceptions** | Mysql exceptions. |

# Technical Requirements (Non functional)

## Performance

Since our project is web based, we need to be able to provide the user with a response time similar to what they would expect on any other well designed page.

## Scalability

We’ll shoot for 2000 users.

## Security

Passwords are encrypted using PHP’s MD5 encryption function. We will be using Captchas on account creation and failed log in to ensure our server isn’t full of bots.

## Maintainability

We will implement special admin accounts that are able to remove inappropriate contributions or comments, as well as moderate the forums and ban users who exploit the site.

## Usability

The site will be intuitive, almost all pages will be readily available from the homepage, but this does not mean there will be lots of links. To meet this goal, most of the site will be created using the Goldilocks approach

## Multi lingual Support

The software is only going to support the English language, but users can make contributions in other languages as well.

## Auditing and Logging

We will keep track of user sign ups, and when users submit contributions or comment on contributions in a log file.

## Availability

Limited downtime is acceptable, especially since the site is being hosted for free at the moment. As the userbase grows we will have to expand to paid hosting and that should increase uptime from 99% to 99.9% (according to the provider’s website).

# Open Issues

We will deal with any open issues as they are found rather than let them linger.