**Software Requirements**

**Specification**

**for**

**Dungeon Organizer**

Version 1.0 Approved

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26 April 2013

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# 1. Introduction

## 1.1 Purpose

In the game Dungeons and Dragons(DnD) users enter a land of fantasy where magic is real and there are many different items. The more in depth a group of players makes their the more real it becomes. The Dungeon Organizer tool aims to enhance the atmosphere of a DnD game by making it easier for the group to track their levels, spells, items, location, and more. In addition to this Dungeon Organizer aims to create a global community for DnD players to share ideas and play virtually on a discussion board.

## 1.2 Product Scope

The application is called Dungeon Organizer, and it does just as its name implies. The application streamlines the current process of keeping track of DnD campaigns. In addition to keeping track of games it is also a community where users share ideas, images, links, and play games together. This saves players of the game time by allowing them to quickly keep track of experience points, items, spells, and more. This also helps the DnD community by enriching it with content.

## 1.3 Document Conventions

* **Dungeons and Dragons** - (abbreviated as DnD) - Fantasy, role-playing game created by Wizards of the Coast, Inc.
* **Campaign** - A series of related gaming adventures.
* **Dungeon Master** - Game organizer and participant in charge of creating the details and challenges of a given adventure, while maintaining a realistic continuity of events.
* **Spell -** rules simulate the effects that magic would have within the game.
* **Level -** Measurement of character’s advancement.
* **Feat -** any number of benefits that improve a character’s capabilities as they level.
* **Alignment -** a moral and ethical outlook of a character.
* **Dice/Die -** Gameplay mechanism.
* **Roll -** The act of rolling a die/dice on the website.
* **Forum -** A message board where users can create, reply to, and delete topics.
* **Subforum -** A subcategory of a forum.
* **Topic -**  A Collection of similar threads.
* **Avatar -**  An image of the users choosing. Is shown next to everyone of their posts.
* **Thread -** A series of posts that are often replies to the posts above them.

## 1.4 Intended Audience and Reading Suggestions

This Document is intended for developers, interested parties and documentation writers of the Dungeon Organizer application. The sections Product perspective, product functions, user characteristics, general constraints, assumptions, and dependencies will help developers and interested parties understand the system. The next sections, function and non-functional requirements are their to aid developers when designing the Use case diagrams, class diagram, and various other diagrams.

**1.5 References**

<http://www.d20srd.org/> - Open Source DnD

<http://codeigniter.com/> - PHP Framework

<https://www.phpbb.com/> - phpBB Open Source Bulliten Board Software

# 2. Overall Description

## 2.1 Product Perspective

The Dungeon Organizer application is a brand new web application which interfaces with a mysql database. The Dungeon Organizer application is only available an internet connection. Users can access the a limited amount of web pages without authenticating. However, if a user logs in with a username and password many more features are opened up to them.

## 2.2 User Classes and Characteristics

Types of Users

* User
* Registered User
* Moderator
* Administrator

Description of users

* **Users** can be anyone. User can look up spells and read the forums.
* **Registered Users** can do create a character, post on the forum, create a spellbook, and lead a campaign
* **Moderators** are in charge of keeping the content of the forums clean and on topic. Also moderators will be incharge of character managment. Incase anything goes wrong with users characters
* **Administrators** are in charge of overall site maintenance as well as adding new features and discussion areas.

## 2.3 Product Functions

**Users**

* No login necessary
* View spells and forums

**Registered Users**

* Login
* Create characters
* Manage Spellbook
* Create thread
* Reply to thread
* Send private messages

**Moderator**

* Everything a Registered user can do
* Remove threads and posts
* Lock threads
* Ban users
* Delete Characters

**Administrator**

* Everything a Moderator can do
* Modify the style of the forum
* Add spells
* Change the source code of the website
* Create new Sub Forums

## 2.4 Operating Environment

The Dungeon Organizer app is built with CodeIgniter using PHP 5.4+ & Mysql 5.5.28 and it hosted on a Ubuntu 12.04 Server Long Term Support Edition.

## 2.5 Design and Implementation Constraints

At the moment we are not able to implement a mobile version of the site. This will be addressed in future versions. We also only have the spellbook and character sheet only viewable with an internet connection, however later we may make character sheets and spellbooks exportable for view offline.

## 2.6 User Documentation

Guides on how to use the website will be featured on each page as well as a FAQ and help section of the forum

## 2.7 Assumptions and Dependencies

The database will be secure from malicious activity. Users must have an internet connection and must be a registered user to access all user-enabled parts of the system. The user cannot take on the role of an admin. An admin is available on the system at least bi-weekly. An admin can ban a user if the user break rules.

# 3. External Interface Requirements

## 3.1 User Interfaces

The user interface is a website and forum. The website is easy to navigate and has a link to the home directory on each page. The website has a each to each page on the header below the logo. The forum has a link to the home directory on each page and the different boards are descriptive and easily traversed. The website and forum are connected such that logging into one means you’re also logged into the other and you can jump back and forth between pages via links on each page.

# 4. System Features

## 4.1 Logging in

4.1.1 Description and Priority

Logging in is a high priority part of the system. It allows users access to many of the dungeon organizer functions. After registering an account users must login using the username & password combo they have chosen. Typical features like register, logout, forgot password and persistent login will be tied in with the logging in module.

4.1.2 Stimulus/Response Sequences

Upon visiting the website the user will have the option of logging in, registering, or recovering password. The user can enter username and password combination and press the login button. The user is then authenticated via the built in phpBB forum and automatically redirected to the page they came from.

4.1.3 Functional Requirements

REQ1: The user must be connected to the internet.

REQ2: The user must be using a modern browser. IE7+, Chrome, Firefox, Safari, or Opera.

REQ3: User must have registered account to login.

REQ4: If a user has forgotten his/her username or password, he/she can retrieve the information by selecting the “Forgot Username/Password” button.

## 4.2 Creating a Character

4.2.1 Description and Priority

Creating a character is a high priority part of the system. It allows the user to create a character for gameplay and keep track of their character’s details.

4.2.2 Stimulus/Response Sequences

Upon registering and/or logging in, the user will be able to create a character for their login. The user will choose the character link and a form will appear to input data about their character to their liking. Abilities of the character are predetermined. After filling out the form, the user will submit the form and will be saved to their profile.

4.2.3 Functional Requirements

REQ1: The user must be connected to the internet.

REQ2: The user must be using a modern browser. IE7+, Chrome, Firefox, Safari, or Opera.

## 4.3 Searching for Spells

4.3.1 Description and Priority

Searching for spells is a high priority part of the system. This allows for a user to search for prospective spells to add to their spellbook.

4.3.2 Stimulus/Response Sequences

Upon logging in a user is allowed to access different classes. From this the user can refine their search parameters by selecting different tuples. The spells returned will be categorized to the users request.

4.3.3 Functional Requirements

REQ1: The user must be connected to the internet.

REQ2: The user must be using a modern browser. IE7+, Chrome, Firefox, Safari, or Opera.

REQ3: User must have registered account to login.

REQ4: If a user has forgotten his/her username or password, he/she can retrieve the information by selecting the “Forgot Username/Password” butt

## 4.4 Creating a Spellbook

4.4.1 Description and Priority

Creating a spellbook is a high priority part of the system. This allows a user to pick spells from the database and add it to their personal spellbook.

4.4.2 Stimulus/Response Sequences

A user must first log in. If their character hasn’t been created then they must first create a character. Then the user can browse through spells of their class and add them to their spellbook. Afterwards a user can view their spellbook at any time.

4.4.3 Functional Requirements

REQ1: The user must be connected to the internet.

REQ2: The user must be using a modern browser. IE7+, Chrome, Firefox, Safari, or Opera.

REQ3: User must have registered account to login.

REQ4: If a user has forgotten his/her username or password, he/she can retrieve the information by selecting the “Forgot Username/Password” butt

## 4.5 Rolling Dice

4.5.1 Description and Priority

Rolling dice is of high priority part of the system.To make a move in dungeon and dragons, a die/dice must be rolled. The most popular dice are options as well as the ability to input a custom sided die number. It functions as critical part of the online game play.

4.5.2 Stimulus/Response Sequences

Upon visiting the website the user does not have to log in to use the dice rolling feature. User choose the link titled roll. The page has picture of each die with their corresponding number of sides value that the user can click. The resulting page shows dice roll result. The same is for the custom sided die, with the exception that the user has to input a value into the textbox and click submit.

4.5.3 Functional Requirements

REQ1: The user must be connected to the internet.

REQ2: The user must be using a modern browser. IE7+, Chrome, Firefox, Safari, or Opera.

REQ3: The user can input a digit(s) into the custom die input box.

REQ4: The user can roll a premade die.

## 4.6 Creating a Topic on the Forum

4.6.1 Description and Priority

Creating a Topic is of medium priority part of the system. It allows the user to interact with other users of dungeon organizer.

4.6.2 Stimulus/Response Sequences

Upon registering and/or logging in, the user will be able to access the forum to create a thread. The user will choose create new thread, then input a title for the thread in the textbox. For the body of the new thread the user will input any text, images, links, etc they would like into the textbox. After submitting the form, the response will appear at the top of the forum or subforum.

4.6.3 Functional Requirements

REQ1: The user must be connected to the internet.

REQ2: The user must be using a modern browser. IE7+, Chrome, Firefox, Safari, or Opera.

REQ3: User must have registered account to login.

REQ4: If a user has forgotten his/her username or password, he/she can retrieve the information by selecting the “Forgot Username/Password” button.

## 4.7 Commenting on a Thread in the Forum

4.7.1 Description and Priority

Commenting on a Thread a topic is of high priority part of the system. It allows the user to interact with other users of dungeon organizer.

4.7.2 Stimulus/Response Sequences

Upon registering and/or logging in, the user will be able to access the forum to respond to thread. The user will choose the thread the they would like to respond to then click post reply and input any text, images, links, etc they would like into the textbox. After submitting the reply, the response will appear at the bottom of the thread.

4.7.3 Functional Requirements

REQ1: The user must be connected to the internet.

REQ2: The user must be using a modern browser. IE7+, Chrome, Firefox, Safari, or Opera.

REQ3: User must have registered account to login.

REQ4: If a user has forgotten his/her username or password, he/she can retrieve the information by selecting the “Forgot Username/Password” button.