**User Profile Design**

**NASA EVA Gamification**

*Group 3*

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| --- | --- | --- | --- |
| **Version Number** | **Description of Change** | **Author** | **Date** |
| 1.0 | Initial Creation of Document | Victoria Guadagno | 03/11/2018 |
| 1.1 | Added Montrell to title page, wording on additional User Profile features, and wording on images | Michael Salgo | 03/27/2018 |

# Introduction

## Document Overview

This document will detail the design of the User Profile. In the initial release, there will only be a very basic User Profile. As future semesters continue the gamification of the wiki, the User Profile will become more full-featured. The games and the database that supports the gamification will be described in separate documents.

The User Profile is inspired by Stack Overflow’s User Profile ("Users"). Future semesters should continue to use this as their inspiration.

# Software Architecture Overview

The NASA EVA Gamification extension has four (4) main conceptual pieces:

* The gamification database table – to store earned user badges
* The configuration array of the extension - used to register badges that can be earned and the threshold needed to obtain them
* The MediaWiki hook functionality – to perform extension code when certain MediaWiki actions are taken
* The user profile – used to display the earned badges to the users of the wiki

## Database Table

See the Database Design Documentation for details.

## Configuration Array

See the Game Design Documentation for details.

## MediaWiki Hooks

See the Game Design Documentation for details.

## User Profile

The User Profile will consist of both the items to be displayed and the user interface that is used to display the items.

# Software Design Description

## User Profile

The User Profile will be reachable by using the Other Special pages link.

### Contents

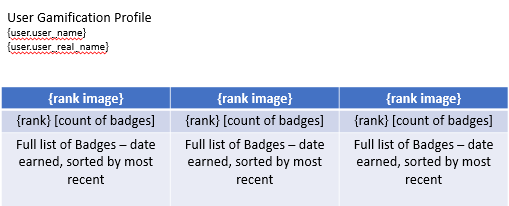
The User Profile will show the user’s full name, the user name, the user’s badge count and a list of all badges (in the order received, most recent first) broken out into three different badge categories.

Future semesters should add in the following features (this is not an all-inclusive list)

* The number of posts made
* The date the user profile was last edited
* The ability to display only the top three badges in each category
* A View All Badges link that will take the user to a new tab
* User Profile Image
* User-changeable description
* How long the user has been active

MediaWiki is an active open source technology project. As such, the code framework, best practices, and extension features are constantly in flux. As an example, the NASA EVA Gamification extension was developed for the method MediaWiki 1.25 and higher uses to load extensions. It will likely not work for MediaWiki 1.24 and earlier implementations. This method may be altered again in later MediaWiki versions.

### User Interface



Data will be retrieved from the database using user.user\_id. Ranks will be stored in a PHP configuration file. Default images will be stored in an “images” sub-folder within the extension folder. The ranks are displayed with the most prestigious rank on the left and the least prestigious rank on the right. This will not be configurable in the Spring 2018 semester.

In the event that a user’s “Real Name” value is not filled in, a configurable placeholder will be displayed, indicating that the data is not populated. Additionally, if a user is not signed in, instead of the display above, the user will receive instructions to sign in to see their profile data.

### Images

Due to the open source nature of MediaWiki, all images used as part of this extension must be publicly available. As such, the images used in this out of the box User Profile are as follows:

1. astronaut.jpg:
   1. Source:
      1. Page URL: https://commons.wikimedia.org/wiki/File:STS-131\_Spacesuit\_Fit\_Check\_2.jpg
      2. Image URL: https://upload.wikimedia.org/wikipedia/commons/thumb/7/76/STS-131\_Spacesuit\_Fit\_Check\_2.jpg/800px-STS-131\_Spacesuit\_Fit\_Check\_2.jpg
2. spacewalker.jpg:
   1. Source:
      1. Page URL: https://commons.wikimedia.org/wiki/File:Piers\_Sellers\_spacewalk.jpg
      2. Image URL: https://upload.wikimedia.org/wikipedia/commons/thumb/0/08/Piers\_Sellers\_spacewalk.jpg/800px-Piers\_Sellers\_spacewalk.jpg
3. moonwalker.jpg
   1. Source:
      1. Page URL: https://wccftech.com/living-space-unpleasant-consequence-astronauts-vision-reportedly-deteriorating-2020/
      2. Image URL: https://cdn.wccftech.com/wp-content/uploads/2016/07/Astronauts-740x555.jpg

# Requirements Mapping

## Business Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Semester** | **Requirement** | **Source of Requirement** |
| B1 | Spring 2018 | Allow for the wiki system administrator(s) to configure variables via a configurable PHP File | <https://github.com/darenwelsh/Profiler> |

## Functional Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Semester** | **Requirement** | **Source of Requirement** |
| F1 | Spring 2018 | All code should be open source | <https://learn.umuc.edu/d2l/le/content/287871/viewContent/11764296/View> |
| F2 | Spring 2018 | All back-end code should be PHP | <https://github.com/darenwelsh/Profiler> |
| F3 | Spring 2018 | Database should be MariaDB/MySQL | <https://github.com/darenwelsh/Profiler> |
| F7 | Spring 2018 | Be able to instantly update score as activities are done | Daren Welsh |
| F8 | Spring 2018 | Include Badges | Daren Welsh |
| F9 | Spring 2018 | Include Once-And-Done Games | Daren Welsh |
| F10 | Spring 2018 | User Profile will display all badges earned | Daren Welsh |
| F11 | Spring 2018 | User Profile will display user name | Daren Welsh |
| F12 | Spring 2018 | User Profile will display full name | Daren Welsh |
| F13 | Spring 2018 | User will get a badge for verifying his/her user name | Spring 2018 Team |
| F14 | Spring 2018 | Make games scalable | Daren Welsh |
| F15 | Future | Front-end code can be in JavaScript | <https://github.com/darenwelsh/Profiler> |

# COTS Identification

DBMS – MariaDB v5.5

Software – PHP v5.6

MediaWiki – v1.27

# References

Users. (n.d.). Retrieved from <https://stackoverflow.com/users>