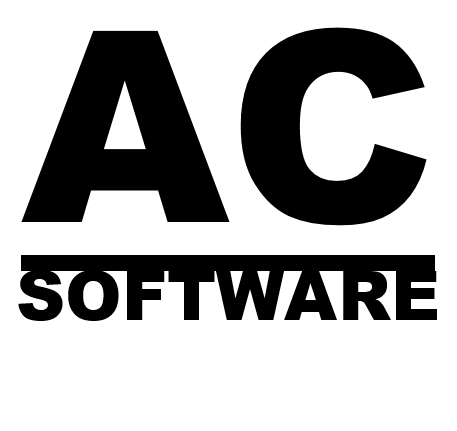
**Diablo III BuildMark**



Release #1

v1.5

November 12, 2015

**Alex Carlson**

[alexander.carlson@oit.edu](mailto:alexander.carlson@oit.edu)

**Signature Page**

This document accepted by:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature (Calvin Caldwell) Date

This document submitted by:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature (Alex Carlson) Date

**Revision History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Author** | **Company** | **Date** | **Version** | **File Name** | **Comments** |
| Alex Carlson | AC software | 10/18/2015 | v1.0 | Diablo III BuildMark – Use Case Model 1.0.docx | Created initial document with title page. |
| Alex Carlson | AC software | 10/19/2015 | v1.1 | Diablo III BuildMark – Use Case Model 1.1.docx | Wrote feature verification matrix. |
| Alex Carlson | AC software | 10/20/2015 | v1.2 | Diablo III BuildMark – Use Case Model 1.2.docx | Wrote Use Case Catalog, edited Feature Verification Matrix and Context Diagram. |
| Alex Carlson | AC software | 10/20/2015 | v1.3 | Diablo III BuildMark – Use Case Model 1.3.docx | Designed Low Fidelity UI, Wrote CRUD Matrix, Business Rules, edited Use Case Catalog, and Feature Verification Matrix. |
| Alex Carlson | AC software | 10/21/2015 | v1.4 | Diablo III BuildMark – Use Case Model 1.4.docx | Inserted Use Case Specifications, edited business rules. |
| Alex Carlson | AC software | 11/12/2015 | v1.5 | Diablo III BuildMark – Use Case Model 1.5.docx | Updated CRUD Matrix |

**Table of Contents**

Signature Page 2

Revision History 3

Signature Page 4

Context Diagram 5

Use Case Catalog 6

Actor Catalog 7

Features Verification Matrix 8

Use Case Specifications 9-39

CRUD Matrix 40

Low Fidelity UI 41

Glossary 42

Appendix A – Business Rules 43

**Context Diagram**



**Use Case Catalog**

|  |  |  |
| --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **Description** |
| P-000 | User Registration | User wants to register an account |
| P-005 | User Login | User wants to login with their account |
| P-006 | User Logout | User wants to logout with their account |
| P-010 | Create Profile | User wants to create profile for their account |
| P-015 | Edit Profile | User wants to edit profile for their account |
| P-020 | Add Hero | User wants to add a hero build |
| P-025 | Save Hero Snapshot | User wants to save a hero build snapshot |
| P-030 | Update Hero | User wants to update a hero to the latest version |
| P-035 | Edit Account Settings | User wants to edit account settings |
| UX-000 | View Profile | User wants to view a user’s profile |
| UX-005 | View Hero | User wants to view a profile’s hero build |
| UX-010 | Compare Hero Snapshots | User wants to compare two hero builds at once |
| UX-015 | View Hero Benchmarks | User wants to view benchmarks for a hero build |
| UX-020 | Search | User wants to search for users and/or hero builds |
| S-000 | Update Benchmarks | System calculates benchmarks for builds |

**Actor Catalog**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| Registered User | Person | A user that has previously been registered and is currently logged in. |
| Anonymous User | Person | A user that has not yet logged in. |
| Blizzard API | System | The official blizzard API for retrieving Diablo III player data. |

**Feature Verification Matrix**

|  |  |  |
| --- | --- | --- |
| **Feature #** | **Use Case ID** | **Use Case Name** |
| 1A | P-000 | User Registration |
| 1B | P-005, P-006 | User Login, User Logout |
| 1C | P-035 | Edit Account Settings |
| 2A | UX-000 | View Profile |
| 2B | P-010 | Create Profile |
| 2B | P-015 | Edit Profile |
| 2C | P-020 | Add Hero |
| 2C | P-030 | Update Hero |
| 3A | UX-005 | View Hero |
| 4B | P-025 | Save Hero Snapshot |
| 5A | UX-010 | Compare Hero Snapshots |
| 6A | UX-005 | View Hero |
| 6A | S-000 | Update Benchmarks |
| 6B | UX-005 | View Hero |
| 7A | UX-015 | View Hero Benchmarks |
| 7A | S-000 | Update Benchmarks |
| 7B | S-000 | Update Benchmarks |
| 7C | S-000 | Update Benchmarks |
| 8A | UX-020 | Search |
| 8B | UX-020 | Search |

**Use Case Specifications**

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-000  Use Case Name : User Registration  Subject Area : Profile  Description : User wants to register an account | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1A | The website shall provide a registration page |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Anonymous User | Person | A visiting user that is not yet registered/logged in |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user must be logged out |
|  |  |
|  |  |

|  |
| --- |
| **Start Stimulus** |
| User clicks “Register” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System prompts user to enter username |  |  |
| 2 | User enters username |  |  |
| 3 | System checks validity of username |  | 10 |
| 4 | System prompts user to enter password & confirmation password |  |  |
| 5 | User enters password & confirmation password |  |  |
| 6 | System checks validity of password |  | 11 |
| 7 | System displays successful registration page |  |  |
| 8 | System displays login page |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid username | System notifies user of invalid entry and re-prompts for entry |  |
| User enters invalid password | System notifies user of invalid entry and re-prompts for entry |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | User is registered |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system | Username, password, email |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 100 Average: 10 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 2,3 | Seconds | 0.1 | 0.3 | 2 |  |
| 2 | Between | 5,6 | Seconds | 0.1 | 0.3 | 2 | Will complete registration if user leaves before step 6, given the input was valid. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | 2 | Kbytes | 1 | 1 | 1 | Username data |
|  | 5 | Kbytes | 1 | 1 | 1 | Password data |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-005  Use Case Name : User Login  Subject Area : Profile  Description : User wants to login with their account | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.B | The website shall provide a login page |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Anonymous User | Person | A visiting user that is not yet registered/logged in |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user must be logged out |
| 2 | The user must have previously registered |

|  |
| --- |
| **Start Stimulus** |
| Anonymous User clicks “Login” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System prompts user for username & password |  |  |
| 2 | User enters username |  |  |
| 3 | System checks validity of username |  | 10 |
| 4 | System prompts user to enter password |  |  |
| 5 | User enters password |  |  |
| 6 | System checks validity of password |  | 11 |
| 7 | Systems displays successful login page |  |  |
| 8 | System displays the home page |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid username | System notifies user of invalid entry and re-prompts for entry |  |
| User enters invalid password | System notifies user of invalid entry and re-prompts for entry |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | User is logged in |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 2,3 | Seconds | 0.1 | 0.3 | 2 |  |
| 2 | Between | 5,6 | Seconds | 0.1 | 0.3 | 2 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | 2 | Kbytes | 1 | 1 | 1 | Username data |
|  | 5 | Kbytes | 1 | 1 | 1 | Password data |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-006  Use Case Name : User Logout  Subject Area : Profile  Description : User wants to logout with their account | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1.B | The website shall provide a login page |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Registered User | Person | A visiting user that is registered and logged in |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user must be logged in |

|  |
| --- |
| **Start Stimulus** |
| Anonymous User clicks “Logout” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System logs out user |  |  |
| 2 | Systems displays successful logout page |  |  |
| 3 | System displays the home page |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | User is logged out |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,2 | Seconds | 0.1 | 0.2 | 1 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | N/A |  |  |  |  |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-010  Use Case Name : Create Profile  Subject Area : Profile  Description : User wants to create profile for their account | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 2.A.i | The profile viewing page shall allow the user to connect the profile with its battle/net battletag |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/6/2015 | First Draft |
| Alex Carlson | 10/20/2015 | Revised for UC Model |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Registered User | Person | The currently logged in user |
| Blizzard API | System | The connection to the online Diablo 3 profile database |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user must be logged in |
| 2 | The user must be on his/her own profile page |
| 3 | The user must not have already created a profile |

|  |
| --- |
| **Start Stimulus** |
| User clicks “Create Profile” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System prompts user to enter blizzard battletag |  |  |
| 2 | User enters blizzard battletag |  |  |
| 3 | System requests profile from Blizzard API |  |  |
| 4 | System stores updated profile information |  |  |
| 5 | System displays updated profile page |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid battletag | System notifies user of invalid entry and re-prompts for entry |  |
| System can’t contact Blizzard API | System notifies user to try again later |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Profile added for logged in user. |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system | Username, password, email |
| Profile | Holds battle.net and hero information | Name, Battletag, list<hero> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 4 | Between | 3,4 | Seconds | 10 | 20 | 60 | Will complete if user leaves |
| 5 | Between | 4,5 | Seconds | 1 | 5 | 10 | Will not complete if user leaves |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 4 | Kbytes | 15 | 25 | N/A | Data from battle.net servers |
| 2 | 5 | Kbytes | 15 | 25 | N/A | Data being stored in system’s database |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-015  Use Case Name : Edit Profile  Subject Area : Profile  Description : User wants to edit profile for their account | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 2.A.i | The profile viewing page shall allow the user to connect the profile with its battle/net battletag |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/6/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Registered User | Person | The currently logged in user |
| Blizzard API | System | The connection to the online Diablo 3 profile database |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user must be logged in |
| 2 | The user must be on his/her own profile page |

|  |
| --- |
| **Start Stimulus** |
| User clicks “Edit Profile” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System prompts user to enter blizzard battletag |  |  |
| 2 | User enters blizzard battletag |  |  |
| 3 | System requests profile from Blizzard API |  |  |
| 4 | System stores updated profile information |  |  |
| 5 | System displays updated profile page |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid battletag | System notifies user of invalid entry and re-prompts for entry |  |
| System can’t contact Blizzard API | System notifies user to try again later |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Profile edited for logged in user. |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system | Username, password, email |
| Profile | Holds battle.net and hero information | Name, Battletag, list<hero> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 4 | Between | 3,4 | Seconds | 10 | 20 | 60 | Will complete if user leaves |
| 5 | Between | 4,5 | Seconds | 1 | 5 | 10 | Will not complete if user leaves |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 4 | Kbytes | 15 | 25 | N/A | Data from battle.net servers |
| 2 | 5 | Kbytes | 15 | 25 | N/A | Data being stored in system’s database |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-020  Use Case Name : Add Hero  Subject Area : Profile  Description : User wants to add a hero build | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 2C | The database shall store a list of the user’s heroes |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user’s profile must have been created |
| 2 | The hero must not have been previously added |
| 3 | The user is on the View Profile page |

|  |
| --- |
| **Start Stimulus** |
| User clicks on “Add Hero” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System retrieves a list of possible heroes |  | 7 |
| 2 | System displays a list of heroes to add |  | 7 |
| 3 | User clicks on a hero to add |  | 7 |
| 4 | System retrieves hero information |  | 8 |
| 5 | System adds initial hero build snapshot |  | 8 |
| 6 | System displays newly added hero view page |  | 2 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| System can’t contact Blizzard API | System notifies user to try again later |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Hero build snapshot created |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system | Username, password, email |
| Profile | Holds battle.net and hero information | Name, Battletag, list<hero> |
| Hero | The container for the hero’s information | Name, Attributes, Skills, Equipment |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,2 | Seconds | 0.5 | 2 | 10 |  |
| 2 | Between | 4,5 | Seconds | 0.5 | 2 | 10 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 1 | Kbytes | 1 | 2 | 3 |  |
| 2 | 4 | Kbytes | 1 | 5 | 20 |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-025  Use Case Name : Save Hero Snapshot  Subject Area : Profile  Description : User wants to save a hero build snapshot | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 2C | The database shall store a list of the user’s heroes. |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user’s profile must have been created |
| 2 | The hero must have been added previously |
| 3 | The user is on the View Profile page |

|  |
| --- |
| **Start Stimulus** |
| User clicks on “Save Snapshot” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System retrieves hero information |  | 8 |
| 2 | System adds hero build snapshot |  | 8 |
| 3 | System displays newly added hero view page |  | 2 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| System can’t contact Blizzard API | System notifies user to try again later |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Hero build snapshot added |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system | Username, password, email |
| Profile | Holds battle.net and hero information | Name, Battletag, list<hero> |
| Hero | The container for the hero’s information | Name, Attributes, Skills, Equipment |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,2 | Seconds | 0.5 | 2 | 10 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 2 | 4 | Kbytes | 1 | 5 | 20 |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-030  Use Case Name : Update Hero  Subject Area : Profile  Description : User wants to update a hero to the latest version | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 2C | The database shall store a list of the user’s heroes. |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/6/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user’s profile must have been created |
| 2 | The hero must have been added previously |
| 3 | The user is on the View Profile page |

|  |
| --- |
| **Start Stimulus** |
| User clicks on “Update Hero” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System retrieves hero information |  | 8 |
| 2 | System updates hero build snapshot |  | 8 |
| 3 | System displays newly updated hero view page |  | 2 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| System can’t contact Blizzard API | System notifies user to try again later |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Hero build snapshot added |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system | Username, password, email |
| Profile | Holds battle.net and hero information | Name, Battletag, list<hero> |
| Hero | The container for the hero’s information | Name, Attributes, Skills, Equipment |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,2 | Seconds | 0.5 | 2 | 10 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 2 | 4 | Kbytes | 1 | 5 | 20 |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : P-035  Use Case Name : Edit Account Settings  Subject Area : Profile  Description : User wants to edit account settings | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 1C | The website shall provide an account settings page for editing account information. |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The user must be registered |

|  |
| --- |
| **Start Stimulus** |
| User clicks “Settings” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System prompts user to enter new password |  |  |
| 2 | System prompts user for password confirmation |  |  |
| 3 | System checks validity of password & confirmation password |  | 10, 11 |
| 4 | Systems prompts user to Edit Profile (optional) | P-015 |  |
| 5 | Systems displays successful settings changed |  |  |
| 6 | System displays account settings page |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid username | System notifies user of invalid entry and re-prompts for entry |  |
| User enters invalid password | System notifies user of invalid entry and re-prompts for entry |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Users account settings have been updated |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| User | Stores the login information for the system | Username, password, email |
| Profile | Holds battle.net and hero information | Name, Battletag, list<hero> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: N/A Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 3 | Seconds | 0.1 | 0.2 | 2 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
|  | 3 | Kbytes | 1 | 1 | 1 | Username data |
|  | 3 | Kbytes | 1 | 1 | 1 | Password data |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : S-000  Use Case Name : Update Benchmarks  Subject Area : System  Description : System calculates benchmarks for builds | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 7 | The system shall provide a benchmarking tool for calculating build effectiveness |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | User must be viewing a hero build snapshot |

|  |
| --- |
| **Start Stimulus** |
| User clicks on “Run Benchmark” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System queues up a benchmark |  | 12 |
| 2 | System displays message to check back later |  | 12 |
| 3 | System calculates benchmark |  | 12 |
| 4 | System saves benchmark information |  | 12 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Benchmark is queued for computation on the server |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| BuildMark | Stores and handles benchmark info and computations | Score, EfficiencySummary |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: N/A Average: N/A (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 1 | Seconds | 0.1 | 0.5 | 2 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 4 | Kbytes | 5 | 7 | 15 |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : UX-000  Use Case Name : View Profile  Subject Area : User Experience  Description : User wants to view a user’s profile | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 2A | The website shall provide a profile viewing page. |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Anonymous User | Person | A user that is not logged in |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The profile must have been previously added by a registered user |

|  |
| --- |
| **Start Stimulus** |
| User clicks link to view profile page |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System displays user’s username |  | 1 |
| 2 | System displays user’s battletag |  | 1 |
| 3 | System displays links to profile’s added hero builds |  | 1 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | All profile information is displayed on the page |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Profile | The creator’s profile | Name, Battletag, list<hero> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 5 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,3 | Seconds | 0.1 | 1 | 5 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 1 | Kbytes | 1 | 1 | 2 |  |
| 2 | 2 | Kbytes | 1 | 1 | 2 |  |
| 3 | 3 | Kbytes | 2 | 3 | 4 |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : UX-005  Use Case Name : View Hero  Subject Area : User Experience  Description : User wants to view a profile’s hero build | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 3A | The website shall provide a hero build snapshots viewing page. |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Anonymous User | Person | A user that is not logged in |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The hero must have been previously added to a user’s profile |

|  |
| --- |
| **Start Stimulus** |
| User clicks link to hero view page |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System displays hero’s build name |  | 2 |
| 2 | System displays hero’s owner’s username |  | 2 |
| 3 | System displays hero’s attributes |  | 2 |
| 4 | System displays hero’s build information |  | 2 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | All hero information is displayed on the page |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Profile | The creator’s profile | Name, Battletag, list<hero> |
| Hero | The container for the hero’s information | Name, Attributes, Skills, Equipment |
| Item | The container for a specific item | Attributes |
| BuildMark | Stores and handles benchmark info and computations | Score, EfficiencySummary |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 1000 Average: 500 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,4 | Seconds | 0.1 | 1 | 5 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 1 | Kbytes | 1 | 1 | 2 |  |
| 2 | 2 | Kbytes | 1 | 1 | 2 |  |
| 3 | 3 | Kbytes | 2 | 3 | 4 |  |
| 4 | 4 | Kbytes | 5 | 10 | 20 |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : UX-010  Use Case Name : Compare Hero Snapshots  Subject Area : User Experience  Description : User wants to compare two hero builds at once | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 5A | The website shall provide a page for comparing build states. |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Anonymous User | Person | A user that is not logged in |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | Both hero’s must have been previously added to a user’s profile |

|  |
| --- |
| **Start Stimulus** |
| User selects two builds to compare |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System displays both hero’s build name |  | 2 |
| 2 | System displays both hero’s owner’s username |  | 2 |
| 3 | System displays both hero’s attributes |  | 2 |
| 4 | System displays both hero’s build information |  | 2 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | All hero information is displayed on the page |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Profile | The creator’s profile | Name, Battletag, list<hero> |
| Hero | The container for the hero’s information | Name, Attributes, Skills, Equipment |
| Item | The container for a specific item | Attributes |
| BuildMark | Stores and handles benchmark info and computations | Score, EfficiencySummary |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 1000 Average: 500 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,4 | Seconds | 0.1 | 1 | 5 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 1 | Kbytes | 1 | 1 | 2 |  |
| 2 | 2 | Kbytes | 1 | 1 | 2 |  |
| 3 | 3 | Kbytes | 2 | 3 | 4 |  |
| 4 | 4 | Kbytes | 5 | 10 | 20 |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : UX-015  Use Case Name : View Hero Benchmarks  Subject Area : User Experience  Description : User wants to view benchmarks for a hero build | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 6A | The website shall display benchmark information on the build viewing page. |
| 6B | The benchmark information will be retrieved from the database. |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Anonymous User | Person | A user that is not logged in |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The hero benchmark must have been previously added to a user’s profile |

|  |
| --- |
| **Start Stimulus** |
| User clicks “View Benchmark Details” button |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
|  | System displays benchmark data |  | 13 |
|  | System displays hero’s base stats |  | 13 |
|  | System displays Benchmark value |  | 13 |
|  | System displays Efficient Difficulty information |  | 13 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | All hero benchmark information is displayed on the page |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Hero | The container for the hero’s information | Name, Attributes, Skills, Equipment |
| BuildMark | Stores and handles benchmark info and computations | Score, EfficiencySummary |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 20 Average: 2 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,4 | Seconds | 0.1 | 1 | 5 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 1 | Kbytes | 1 | 1 | 2 |  |
| 2 | 2 | Kbytes | 1 | 1 | 2 |  |
| 3 | 3 | Kbytes | 1 | 1 | 2 |  |
| 4 | 4 | Kbytes | 1 | 1 | 2 |  |

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Number : UX-020  Use Case Name : Search  Subject Area : User Experience  Description : User wants to search for users and/or hero builds | Responsible Analyst : Alex Carlson |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 3A | The website shall provide a hero build snapshots viewing page. |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Alex Carlson | 10/21/2015 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Anonymous User | Person | A user that is not logged in |
| Registered User | Person | The currently logged in user |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| # | Description |
| 1 | The system must contain at least 1 profile with 1 hero |

|  |
| --- |
| **Start Stimulus** |
| User enters text in the search field and “Search” button is pressed |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | System displays list of profile links that match search term |  | 3 |
| 2 | System displays list of hero builds that match search term |  | 3 |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | All found profile and hero information is displayed on the page |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Profile | The creator’s profile | Name, Battletag, list<hero> |
| Hero | The container for the hero’s information | Name, Attributes, Skills, Equipment |
| Item | The container for a specific item | Attributes |
| BuildMark | Stores and handles benchmark info and computations | Score, EfficiencySummary |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
|  | N/A |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

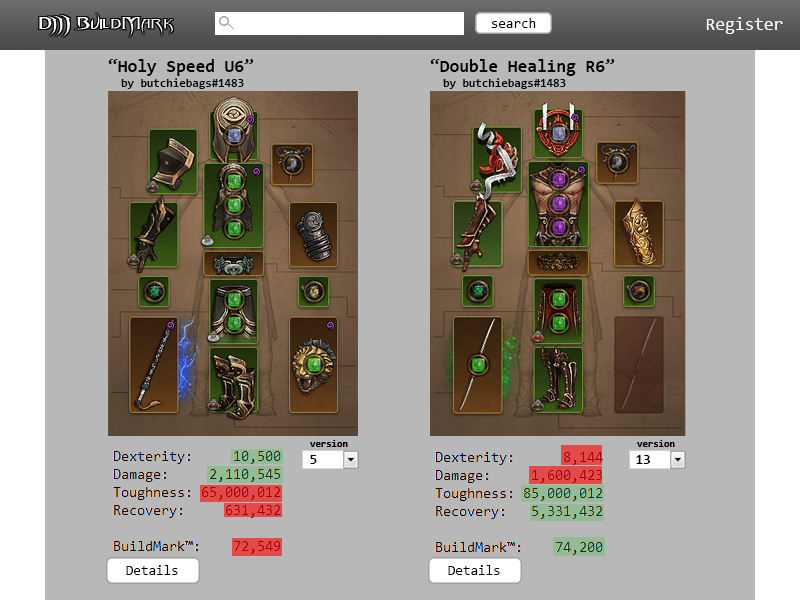
|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 1 Maximum: 1000 Average: 500 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | Between | 1,2 | Seconds | 0.1 | 2 | 10 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 1 | Kbytes | 1 | 1 | 2 |  |
| 2 | 2 | Kbytes | 1 | 1 | 2 |  |

**Crud Matrix**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **ApiManager** | **DBManager** | **BuildMarkMgr** | **BuildMark** | **BuildSnapshot** | **Item** | **Skill** | **Hero** | **Profile** | **User** |
| P-000 | User Registration |  | R |  |  |  |  |  |  |  | C |
| P-005 | User Login |  | R |  |  |  |  |  |  |  | C |
| P-010 | Create Profile | CR | R |  |  |  |  |  |  | CRD | R |
| P-015 | Edit Profile | CR | R |  |  |  |  |  |  | CRD | R |
| P-020 | Add Hero | CR | R |  |  |  |  |  | CRD |  | R |
| P-025 | Save Hero Snapshot | CR | R |  |  | CRD | CRD | CRD | CRD |  |  |
| P-030 | Update Hero | CR | R |  |  | CRD | CRD | CRD | CRD |  |  |
| P-035 | Edit Account Settings |  | R |  |  |  |  |  |  |  |  |
| UX-000 | View Profile |  | CR |  |  |  |  |  | CRD | CRD | CRD |
| UX-005 | View Hero |  | CR |  |  | CRD | CRD | CRD | CRD |  |  |
| UX-010 | Compare Hero Snapshots |  | R |  |  | CRD | CRD | CRD | CRD |  |  |
| UX-015 | View Hero Benchmarks |  | R |  | CRD |  |  |  |  |  |  |
| UX-020 | Search |  | CR |  |  |  |  |  |  |  | CRD |
| S-000 | Update Benchmarks |  | CR | CU | CRUD |  |  |  |  |  |  |

**Low Fidelity UI (Compare Hero Snapshots)**

**Glossary**

**Appendix A**

**Business Rules**

1. All users may view a registered user’s profile.

2. All users may view a hero build.

3. All users may compare hero builds.

4. All users may search for users and hero builds.

5. Anonymous users may register for an account.

6. Anonymous users may login to a previously registered account.

7. Registered users may create and edit only their own profile.

8. Registered users may add a hero snapshot only to their own profile’s heroes.

9. Registered users may request the system to run a benchmark for their own heroes’ snapshots.

10. Usernames must be unique and at least 6 characters.

11. Passwords must be alphanumeric and at least 6 characters.

12. Benchmarks are performed asynchronously on the server.

13. All users may view a hero’s benchmark information