Foundation Project: Test Case Development

# Use Case ID: 1

**Description: Users should be able to open a new User account with the Planetarium.**

**Actors: New User**

## 1.1 First Test Data

**Boundary Analysis Testing for username/password length**

Requirement: usernames and passwords should not be longer than 30 characters

| 0 Character Username | 30 Character Username | 31 Character Username |
| --- | --- | --- |
|  | HelloMyNameIsRyanAndThisIsTest | HelloMyNameIsRyanAndThisIsATest |

| 0 Character Password | 30 Character Password | 31 Character Password |
| --- | --- | --- |
|  | MarvelCinematicUniverseFan4Eva | MarvelCinematicUniverseFan4Eva! |

### 

### Data Table

| Username | Password | Account Creation Result | Redirect |
| --- | --- | --- | --- |
| (0 Characters) | (0 Characters) | User Created | User redirected to the login page |
| (0 Characters) | MarvelCinematicUniverseFan4Eva | User Created | User redirected to the login page |
| (0 Characters) | MarvelCinematicUniverseFan4Eva! | User Not Created | User remains on the creation page |
| HelloMyNameIsRyanAndThisIsTest | (0 Characters) | User Created | User redirected to the login page |
| HelloMyNameIsRyanAndThisIsTest | MarvelCinematicUniverseFan4Eva | User Created | User redirected to the login page |
| HelloMyNameIsRyanAndThisIsTest | MarvelCinematicUniverseFan4Eva! | User Not Created | User remains on the creation page |
| HelloMyNameIsRyanAndThisIsATest | (0 Characters) | User Not Created | User remains on the creation page |
| HelloMyNameIsRyanAndThisIsATest | MarvelCinematicUniverseFan4Eva | User Not Created | User remains on the creation page |
| HelloMyNameIsRyanAndThisIsATest | MarvelCinematicUniverseFan4Eva! | User Not Created | User remains on the creation page |

## 1.2 Second Test Data

**Equivalence Partition Testing for the uniqueness of usernames**

Requirement: users should have unique usernames

| Unique Username | Non-Unique Username |
| --- | --- |
| Deadpool | Batman |

### Data Table

| Username | Password | Account Creation Result | Redirect |
| --- | --- | --- | --- |
| Deadpool | MarvelCinematicUniverseFan4Eva | User Created | User redirected to the login page |
| Batman | MarvelCinematicUniverseFan4Eva | User Not Created | User remains on the creation page |

## 1.3 Third Test Data

**Exploratory Testing to see if passwords are in plain text in any places we have access to in the provided software.**

**Error Guess Testing to see if the passwords are in plain text in the interfaces for the application a regular user would have access to.**

Requirement: passwords should never be visible in plaintext

* The password that should be obfuscated: “I am the night”
  + Use for both Exploratory and Error Guess Testing

### Data Table

| Process/Location | Password Action | Password Obfuscated Result |
| --- | --- | --- |
| Create Account | Type new password | Characters masked in the text box |
| Successful Account Creation | Password is confirmed in the success alert | Characters masked in the alert |
| Database | New password added to the user database | Characters masked within the database |

## 1.4 Fourth Test Data

**Error Guess Testing to perform Acceptance Testing for the Use Case**

* Use positive and negative test data found from the [First Test Data](#_e12zg7njlbog) and [Second Test Data](#_t6jtnk21hr4a) depending on the Acceptance Tests being performed.

# Use Case ID: 2

**Description: Users should be able to securely access their account.**

**Actors: Existing User**

## 2.1 First Test Data

**Equivalence Partition Testing for the uniqueness of usernames**

Requirement: Users should have unique usernames

(Note: users should only be able to access their account based on their username)

### Data Table

| Username | Password | Login Result | Redirect |
| --- | --- | --- | --- |
| Deadpool | I am the night | User not logged in | User remains on log in page |
| Deadpool | MarvelCinematicUniverseFan4Eva | User logged in | User redirected to home page |
| Batman | I am the night | User logged in | User redirect to home page |
| Batman | MarvelCinematicUniverseFan4Eva | User not logged in | User remains on home page |

## 2.2 Second Test Data

**Exploratory Testing to see if passwords are in plain text in any places we have access to in the provided software.**

**Error Guess Testing to see if the passwords are in plain text in the interfaces for the application a regular user would have access to.**

Requirement: Users should have unique usernames

### Data Table

| Process/Location | Password Action | Password Obfuscated Result |
| --- | --- | --- |
| Log In | Type current password | Characters masked in the text box |
| Database | Current password is checked in database | Characters masked within the database |

## 2.3 Third Test Data

**Error Guess Testing to perform Acceptance Testing for the Use Case**

* Use positive and negative test data found from the [First Test Data](#_co5w2itqy3ap) and [Second Test Data](#_rukn1chd5r1i) depending on the Acceptance Tests being performed.

# Use Case ID: 3

**Description: Users should be able to see planets and moons added to the Planetarium**

**Actors: Existing User**

## 3.1 First Test Data

**Equivalence Partition Testing for user account validity**

Requirement: Only logged in Users should be able to access the Planetarium home page

### Data Table

| Logged In User | Planetarium Home Access |
| --- | --- |
| User is logged in | User is allowed access to the home page |
| User is not logged in | User is not allowed access to the home page |

## 3.2 Second Test Data

**Error Guess Testing to see if planets and moons within the Planetarium are successfully displayed to the logged-in user.**

Requirement: Only logged in Users should be able to access the Planetarium home page

### Data Table

| Username for Account | Planets and Moons on Home Page |
| --- | --- |
| Batman | All planets and moons should be displayed |
| Deadpool | All planets and moons should be displayed |

## 3.3 Third Test Data

**Error Guess Testing to perform Acceptance Testing for the Use Case**

* Use positive and negative test data found from the [First Test Data](#_ejti5i6887ys) and [Second Test Data](#_dq0b8tm38kl2) depending on the Acceptance Tests being performed.

# Use Case ID: 4

**Description: Users should be able to add new Planets to the Planetarium**

**Actors: Existing User**

## 4.1 First Test Data

**Boundary Analysis Testing for Planet name length**

Requirement: Planet and Moon names should not have more than 30 characters

### Data Table