Acceptance Testing Summary

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### User Objects

* **Users should have unique usernames**

This is enforced by the database that enforces a constraint upon the

* **Usernames and passwords should be between 5-30 characters**

Acceptance tests are implemented with boundary case testing on usernames and passwords with 4 characters, 5 characters, 30 characters, and 31 characters.

* **Usernames and passwords should start with a letter**

Acceptance

* **Usernames should support lower case, upper case, numeric characters, underscores, and dashes**

Acceptance tests include the username "Azad-Zaire\_109" that includes all supported characters.

* **Passwords should contain a lower case, upper case, and numeric character**

Negative acceptance tests include passwords that do not include all required characters, such as "foobar" and "a123456".

* **Passwords should support underscores and dashes**

Acceptance test includes password "Azad-Zaire\_109" that includes all supported characters.

### Planet Objects

* **Planet names should be between 1-30 characters**

Acceptance tests include boundary case testing for 1, 30, and 31 characters.

* **Planet names should support lower case, upper case, numeric characters, white space, underscores, and dashes**

Acceptance tests include planet names with all supported characters.

* **Planets should have unique names**

Acceptance tests includes an attempt to add "Earth" to the base database.

* **Planets should be “owned” by the user that added it to the Planetarium**

Acceptance test checks if the planet is viewable in the home page.

* **Planets should allow adding an associated image, but an image should not be required for the data to be added to the database**

Acceptance tests include happy path tests both without and with an image added.

* **JPEG & PNG should be supported**

Positive acceptance tests are written specifically for JPEG and PNG files. Negative acceptance tests were removed, due to not being part of the requirements.

### Moon Objects

* **Moon names should be between 1-30 characters**

Acceptance tests included boundary case tests for 1 characters, 30 characters, and 31 characters.

* **Moon names should support lower case, upper case, numeric characters, white space, underscores, and dashes**

Acceptance cases included "Ice-Moon 23\_b", which includes all supported characters.

* **Moons should have unique names**

A negative acceptance test for adding "Luna" is done to the base database.

* **Moons should be “owned” by the Planet the User adding the moon associated it with**

An acceptance test checks if an added moon has a matching id.

* **Moons should be deleted if their "owner" planet is deleted from the database**

An acceptance test "Happy Path Planet with Moon Deleting" checks if a deleted planet also deletes the moons.

* **Moons should allow adding an associated image, but an image should not be required for the data to be added to the database**

Two acceptance tests, "Happy Path Moon Adding" and "Happy Path Moon with Image Adding", determine that images are supported but not required.

* **JPEG & PNG should be supported**

Acceptance tests

### **Acceptance Testing Requirements**

As a new user I want to open an account with the Planetarium so I can save my celestial findings

* Is the intended use of the service intuitive?
  + 2. The registration page closely resembles the login page, making it easy to get confused at a glance whether the user is logging in or registering. There are also no guidelines shown for what usernames or passwords are acceptable or required.
* Is the service easy to use?
  + 3. The actual implementation is clean and easy to follow, but there is room for improvement, such as using keyboard controls to submit credentials directly from the text boxes.
* Does the service inspire confidence?
  + 2. The layout is easy to follow and shows no glaring errors. The UI design doesn't give the impression of a lot of user testing or development, with no background.
* Is the service pleasing to look at?
  + 2. The UI design is very basic, although it doesn't appear to use a default web app appearance. The white-on-black design is a good starting point for a planetarium app, but could stand to excite new users.

As a user I want to securely access my account so I can interact with the Planetarium in a secure environment

* Is the intended use of the service intuitive?
  + 4. Although direct access to the Planetarium would be easier to use with a redirect to the login page, the plain-text rejection makes it immediately obvious that logging in is needed.
* Is the service easy to use?
  + 3. Logging in is straightforward and secure. Logging out requires noticing the logout button in the top right corner, which is a bit difficult in the busy background.
* Does the service inspire confidence?
  + 4. It does not share more information than is necessary. Direct access without logging in gives direct confirmation that one must log in to interact with the Planetarium.
* Is the service pleasing to look at?
  + 3. The login-process uses alerts instead of web page elements, which may be blocked by modern web browsers.

As a user I want to see my planets and moons added to the Planetarium so I can track my findings

* Is the intended use of the service intuitive?
  + 1. There are two big problems with the planetarium interface. First is the planets and moons are distinguished only by a text header, rather than visually separated. More important is that the owner of a moon is indicated not by the planet name, but by the planet ID.
* Is the service easy to use?
  + 1. Celestial viewing shows the name and image of the associated celestial bodies, but the owners of the bodies are given as unintuitive IDs. There is also no option for editing the celestial bodies with new names or new images; they would have to be deleted and re-added into the database.
* Does the service inspire confidence?
  + 2. One significant defect is that all moons are visible, whether or not the user owns the planet that owns the moon.
* Is the service pleasing to look at?
  + 2. Celestial bodies that do not have an image have a broken image tag associated with them. The owner IDs are also not user-friendly and requires some non-trivial effort to determine the associated name.

As a user I want to add new planets and moons to the Planetarium so I can update my findings

* Is the intended use of the service intuitive?
  + 1. Separating the planet-adding interface from the moon-adding interface by way of a dropdown menu is very unintuitive, and would be better replaced with separate pages or with a tab interface.
* Is the service easy to use?
  + 1. There is no direct confirmation that a planet or moon has been added. Adding a celestial body requires searching for the planet ID. Removing an image from the image input is unintuitive and frustrating.
* Does the service inspire confidence?
  + 2. The unpleasing, unintuitive design gives some concern whether adding celestial bodies will work. There is also not a consistent design between the moons and planets interface, nor is there a direct certainty that invalid planet IDs will be rejected by the system. Using a dropdown for user-owned planets would be a better option.
* Is the service pleasing to look at?
  + 2. The actual interface is clean and straightforward in what information is required from the user. However, the actual UI design is difficult to navigate.

As a user I want to remove planets and moons from the Planetarium so I can correct my findings

* Is the intended use of the service intuitive?
  + 2. Having a delete option at the very top of the planet interface is a bit unintuitive, since deleting is usually not the first action that comes to mind for a user. However, the ability to delete moons and planets directly is very intuitive. It is also very confusing to have the celestial body selector for adding planets right next to the deleting interface.
* Is the service easy to use?
  + 3. Being able to delete the planets and moons directly makes it very easy to delete. However, the necessity of typing the celestial body is a bit cumbersome and could be replaced with a dropdown menu.
* Does the service inspire confidence?
  + 4. Typing in the planet or moon directly (along with the requirement that celestial bodies have unique names) instills confidence that only one body will be deleted at a time.
* Is the service pleasing to look at?
  + 3. The service is directly helpful with self-explanatory placeholder text field and a delete button right next to it. However, the delete feature could be improved with either a list of celestial bodies that don't need to be typed, or possibly a delete option next to each celestial body to make it clear that only user-owned bodies may be deleted.