**Test Summary Report**

- **Scope of Testing:**
    - The Planetarium is a web application developed by the Revature Space Initiative, designed for astronomers to track celestial bodies they observe. The main goals for testing in this sprint include identifying defects, validating requirements, and assessing usability.

## Use Cases

- Users should be able to open a new User account with the Planetarium
- Users should be able to securely access their account
- Users should be able to see planets and moons added to the Planetarium
- Users should be able to add new Planets to the Planetarium
- Users should be able to remove Planets from the Planetarium
- Users should be able to add Moons to the Planetarium associated with a Planet
- Users should be able to remove Moons from the Planetarium

## Security Requirements

- Passwords should never be visible in plaintext
- Users should only be able to interact with resources they have added to the Planetarium
- Only logged in Users should be able to access the Planetarium home page

## Software Requirements

- Users should have unique usernames
- Usernames and passwords should not be longer than 30 characters
- Planet and Moon names should not have more than 30 characters
- Planets and moons should have unique names
- Planets should be “owned” by the user that added it to the Planetarium
- Moons should be “owned” by the Planet the User adding the moon associated it with
- Planets and Moons should allow adding an associated image, but an image should not be required for the data to be added to the database

    - **Focus Technologies:** Jira for task management, manual testing techniques, test case creation, reporting, system testing, and acceptance testing.
- **Meaningful Discoveries:**
    - **High Severity Defects:** Celestial bodies cannot be added without an image attachment. Weird cause that was a core use case that it failed.
    - **Interesting Edge Cases:** Testing discovered that when a user closes the tab instead of signing out, when the user attempts to return to the planetarium from the localhost:8080/planetarium URL, they would be assigned a null username
        - Expected to be same user
    - **High Severity Defects:** another user can delete visible moons from Batmans planetarium, meaning that there can be missing data from the DB

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## Acceptance Testing Summary Report

- **Overview of Acceptance Testing:**
    - Acceptance testing focused on ensuring that core features, like account creation, secure access, viewing, and adding celestial bodies, met the criteria outlined in the use cases.
    - Moreso a brutalistic check through that the basic core features of the use cases worked
- **Meaningful Discoveries:**
    - **Confidence in Use Cases:** Successful cases included smooth navigation, clear information on celestial bodies, and responsive account access. These elements inspired confidence in the app's usability.
    - **Areas of Concern:** Certain parts of the UI felt unpolished, particularly during the addition of new celestial bodies, where the alerts for error messages were in the console instead of in an alert for the user.
    - The registration process didn't inspire confidence, as through testing during registration, passwords were visible in plain text, and in the whitebox phase, can see that the passwords were stored in DB in plain text too, violating the security constraint.

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