User Stories	Wants
US1	As a new user I want to open an account with the Planetarium so I can save my celestial findings
US2	As a user I want to securely access my account so I can interact with the Planetarium in a secure environment
US3	As a user I want to see my planets and moons added to the Planetarium so I can track my findings
US4	As a user I want to add new planets and moons to the Planetarium so I can update my findings
US5	As a user I want to remove planets and moons from the Planetarium so I can correct my findings

Security Requirement ID	Security Requirement	User Requirement ID	User Requirement	Planet Requirement ID	Planet Requirement	Moon Requirement ID	Moon Requirement
SR1	Passwords should never be visible in plain text	UR1	Users should have unique usernames	PR1	Planet names should be between 1-30 characters	MR1	Moon names should be between 1-30 characters
SR2	Users should only be able to interact with resources they have added to the Planetarium	UR2	Usernames and passwords should be between 5- 30 characters	PR2	Planet names should support lower case, upper case, numeric characters, white space, underscores, and dashes	MR2	Moon names should support lower case, upper case, numeric characters, white space, underscores, and dashes
SR3	Only logged in Users should be able to access the Planetarium home page	UR3	Usernames and passwords should start with a letter	PR3	Planets should have unique names	MR3	Moons should have unique names
		UR4	Usernames should support lower case, upper case, numeric characters, underscores, and dashes	PR4	Planets should be "owned" by the user that added it to the Planetarium	MR4	Moons should be "owned" by the Planet the User adding the moon associated it with
		UR5	Passwords should contain a lower case, upper case, and numeric character	PR5	Planets should allow adding an associated image, but an image should not be required for the data to be added to the database	MR5	Moons should be deleted if their "owner" planet is deleted from the database
		UR6	Passwords should support underscores and dashes	PR6	JPEG & PNG should be supported	MR6	Moons should allow adding an associated image, but an image should not be required for the data to be added to the database
						MR7	JPEG & PNG should be supported

User Story ID	Requirement ID
US1	SR1, SR3, UR1-6
US2	SR1, SR3, UR1-6
US3	SR2, SR3
US4	SR2, PR1-6, MR1-4, MR6-7
US5	SR2, PR4, MR4-5

Happy Path	Sad Path	Happy Path	Sad Path	Happy Path	Sad Path		Happy Path	Sad Path	Happy Path	Sad Path	
Given the user is on the login page	Given the user is on the login page	Given the user is on the login page	Given the user is on the login page	Given the user is on the home page	Given the user is on the home page		Given the user is on the home page	Given the user is on the home page	Given the user is on the home page	Given the user is on the home page	
When the user accesses the register link	When the user accesses the register link	And the user has a registered account	And the user has a registered account	And the user has previously added valid planet or moon data	And the user has no previously submitted planet or moon data		When the user enters valid planet or moon data	When the user enters invalid planet or moon data	When the user enters valid planet or moon data	When the user enters invalid planet or moon data	
When the user provides a valid username	And the user provides invalid credentials	When the user provides valid login credentials	Or the user does not possess an account	Then the user should see the previously added data present on the home page	Or the user has submitted invalid data		And the user presses the submit button	And the user presses the submit button	And the user presses the delete button	And the user presses the delete button	
And the user provides a valid password	Then the user should be shown an alert with an error message	Then the user should be logged in	And the user provides invalid login credentials		Then the user should not see any planet or moon data on the home page		Then the table should refresh	Then the user should be shown an alert with an error message	Then the table should refresh	Then the user should be shown an alert with an error message	
Then an alert should appear saying "Account created successfully"	And the user should remain on the register page	And the user should be redirected to the home page with a greeting message present	Then the user should be shown an alert with an error message				And the user should remain on the home page	And the user should remain on the home page	And the user should remain on the home page	And the user should remain on the home page	
And the user should be redirected to the login page			And the user should remain on the login page				And the newly submitted info should now be present in the table	And the invalid data should not appear on the home page	And the aforementioned data should be removed from the table	And no data should be removed from the table	
Then an alert should appear saying "Account created successfully"		And the user should be redirected to the home	Then the user should be shown an alert with an error message		data on the home page		And the user should remain on the home page And the newly submitted info should now be	And the user should remain on the home page And the invalid data should not appear on the	And the user should remain on the home page And the aforementioned data should be removed	And the user should remain on the home	

Valid Username Test Data	cont.	Invalid Username Test Data	cont	Valid Password Test Data	contid	Invalid Password Test Data						Valid Username Test Data		Invalid Username Test Data		Valid Password Test Dat	Invalid Passwor	d Test Data
Unique Username & Starts With Letter (UR1, UR3)		Non-Unique Username (UR1)		5 Characters With Required Characters (UR2, UR3, UR5)	30 Characters With Required Characters (UR2, UR3, UR5)	4 Characters (UR2)	31 Characters (UR2)					Unique Usemame & Starts With L	etter (UR1, UR3)	Non-Unique Usemame (URT)		5 Characters Wit 30 Cha	acters W 4 Characters (U	#31 Characters (UR2)
Diana		Batman		Diana	Thisshouldbethirtycharacterss3	Todd	Thisoverthirtycharactersssssss3					Diana		Batman		Diana Thissh	uldbethirt TOdd	Thisoverthirtycharactersssssss3
5 Characters & Starts With Letter (UR2)	30 Characters & Starts With Letter (UR2)	4 Characters (UR2)	31 Characters (UR2)	Supports Dushex & Underscores (UR6)		Missing Required Characters (URS)						5 Characters & Starts With Letter	130 Characters & Starts With Letter	4 Characters (UR2)	31 Characters (UR2)	Supports Dashes & Und	racones (I Missing Require	ud Characters (UR5)
Jason	thisshouldbethirtycharactersss	Todd	thisoverthirtycharactersssssssss	Diana_41		dana						Jason	thisshouldbethirtycharactersss	Todd	thisoverthirtycharactersssssssss	Diana_4-1	dana	
Supports Lower & Upper Case, Numbers, Underscores & Dashes (UR4)		Includes Unsupported Characters (UR4)				Diana						Supports Lower & Univer Case N	umbers, Underscores & Dashes (UR	Includes Unsurroysted Characte	rs (1994)		Diana	
Diana_4-1		Diara/3/2				dlana						Diana 4-1		Dianal%?			dlana	
		Username Does Not Start With Letter (UR3)				DTANA								Username Does Not Start With	Letter (UR3)		DIANA	
		Oliver				Unsupported Characters (URS)								Oliver			Unsupported Cl	haracters (URS)
						D1anal?											Dianal?	
						Begins With Non-Letter (UR3)											Begins With No	n-Letter (UR3)
						Oliver											Oliver	
Valid Username Test Data	cont.	Invalid Login (Username) Test Data	Invalid Login (Password) Test	Valid Passwood Test Data	contid													
Unique Username & Starts With Letter (UR1, UR3)		Misspelled Username	Correct Password	5 Characters With Required Characters (UR2, UR3, UR5)	30 Characters With Required Characters (UR2, UR3, UR5)													
ura)																		
Diana		Batmann	Missolled Password	Diana	Thisshouldbethirtycharacterss3													
5 Characters & Starts With Letter (UR2)	30 Characters & Starts With Letter (UR2) thisshouldbethirtycharactersss	Correct Userrame	Missiphike Password	Supports Dashes & Underscores (UR6) Diana 4-1														
Supports Lower & Upper Case, Numbers.	THE SERVICE CONTROL OF	baoman	tarresengre (VOU	Diana,4-1														
Supports Lower & Upper Case, Numbers, Underscores & Dashes (UR4)																		
Dana_41																		
	cont.	Invalid Planet Test Data		Valid Moon Test Data		Invalid Moon Test Data	confd.			Valid Planet Image Test Data			Invalid Moon Owner Test Data		Invalid Moon Image Test Data			
Unique Planet Name (PR3)		Non-Unique Planet (PR3)		Unique Moon Name (MR3)		Non-Unique Moon (MR3)		Planet "Owned" By Specific User (PR4)	Planet "Owned" By Different User (PR4)	JPEG/PNG Planet Image (PR5, PR6)	Unsupported Image File (PRS, PR6)	Moon "Owned" By Specific User (MR4)	Moon "Owned" By Different Uper (MR4)	JPEG/PNG Moon Image (MR6, MR7)	Unsupported Image File (MR6, MR7)			
Krypton		Earth		Tamaran		Titan			User: Batman	Krypton.png	Krypton pdf	User: Batman	User Batman	Tamaran jpeg	Tamaran.pdf			
1 Character Planet (PR1)	30 Characters Planet (PR1)	Null Planet Name (PR1)	31 Characters Planet (PR1)	1 Character Moon (MR1)	30 Characters Moon (MR1)	Null Character Moon (MR1)	31 Characters Moon (MR1)	Planet Earth	Planet: Marx			Moon: Luna	Moore Titan					
х	thisshouldbethirtycharactersss		thisoverthirtycharactersssssssss		thisshouldbethirtycharactersss		Thisoverthirtycharactersssssss3											
Supports Lower & Upper Case, Numbers, Wh Space, Underscores & Dashes (PR2)	ite	Includes Unsupported Characters (PR2)		Supports Lower & Upper Case, Numbers, White Space, Underscores & Dashes (MR2)		Includes Unsupported Characters (MR2)												
Krypton Prime_1-2		Krypton\$\$17		Metro POLi-s		Metro? P0I-s												
Valid Planet Owner Test Data	Invalid Planet Owner Test Data	Valid Moon Owner Test Data	Invalid Moon Corner Test Date	Valid Moon Deletion Text Data	Invalid Moon Deletion Test Data													
Planet 'Owned' By Specific User (PR4)	Planet 'Owned' By Different User (PR4)	Moon 'Owned' By Specific User (MR4)	Moon "Owned" By Different User	Correct Moon Deleted Upon Planet Deletion	Correct Moon Remains Upon Planet Deletion													
			(MR4)	(MRS)	(MR3)													
User: Batman	User: Batman Planet: Marx	User: Batman Moon: Luna	User: Batman Moor: Titan	Planet Deleted: Earth Moon Deleted: Luna	Planet Deleted: Earth Moon Remaining: Titan													
Planet Earth	Plant Mars	MOON: LUNB	Moore Irean	Moon Deleted: Luns	Moon Hemaning I ran													