

ID	Name/Test Object	Description	Preconditions	Actors
UC1	User Registration	Users should be able to open a new User account with the Planetarium	- User account should not already exist	
UC2	User Login	Users should be able to securely access their account	- User account must exist	
UC3	View Content	Users should be able to see planets and moons added to the Planetarium	- Content must exist - Page must load - User must be signed in	
UC4	Add Planet	Users should be able to add new Planets to the Planetarium	- User must be logged in - Data must be entered correctly	
UC5	Remove Planet	Users should be able to remove Planets from the Planetarium	- User must be logged in - Data must be entered correctly	
UC6	Add Moon Assoc. w. Planet	Users should be able to add Moons to the Planetarium associated with a Planet	- User must be logged in - Data must be entered correctly	
UC7	Remove Moons	Users should be able to remove Moons from the Planetarium	- User must be logged in - Data must be entered correctly	

Use Case Id	Test Case Id	Description	Preconditions	Test Data	Steps	Expected Outcome	Actual Outcome	Tester	Status
UC1	P1	User registration	- User account should not already exist	username = "newUser" password = "whatever"	1. Navigate to landing page 2. Click "Create Account" 3. Provide valid username 4. Provide valid password 5. Click "Create"	User is registered with the application	TBD	AJ	in progress
UC2	P2	User login	- User account must exist	username = "newUser" password = "whatever"	1. Navigate to landing page 2. Provide valid username 3. Provide valid password 4. Click "Login"	User is logged into the application	TBD	AJ	in progress
UC3	P3	User view content	- Content must exist - Page must load - User must be logged in	username = "newUser" password = "whatever"	1. Login to a valid account 2. Automatic redirect to main page	Images and data are properly displayed on the page	TBD	AJ	in progress
UC4	P4	User add planet	- User must be logged in - User must enter a planet name - User must select an image file that is less than ?? mbs	username = "newUser" password = "whatever" planet = "Planet Name"	1. Login to a valid account 2. Automatic redirect to main page 3. Use dropdown to select "Planet" 4. Enter planet name 5. Click "Choose File" 6. Find and select small image 7. Click "Submit Planet"	Celestial body type (Planet), id, name, owner, and image properly displayed on home page	TBD	AJ	in progress
UC5	P5	User delete planet	- User must be logged in - User must enter an existing planet name	planet = "Planet Name"	1. Login to a valid account 2. Automatic redirect to main page 3. Use dropdown to select "Planet" 4. Enter planet name into deletion form 5. Click "Delete"	Planet is removed from page	TBD	AJ	in progress
UC6	P6	User add moon assoc. w. planet	- User must be logged in - User must enter a moon name - User must enter the existig orbited planet id - User must select an image file that is less than ?? mbs	username = "newUser" password = "whatever" moon name = "Titan"	1. Login to a valid account 2. Automatic redirect to main page 3. Use dropdown to select "Planet" 4. Use dropdown to select "Moon" to render moon add form 5. Enter moon name 6. Enter orbited planet id 7. Click "Choose File" 8. Find and select small image 9. Click "Submit Moon"	Celestial body type (Planet), id, name, owner, and image properly displayed on home page	TBD	AJ	in progress
UC7	P7	User delete moon	- User must be logged in - Moon must exist in db - Moon name must be correctly entered into the form field	username = "newUser" password = "whatever" moon name = "Titan"	1. Login to a valid account 2. Automatic redirect to main page 3. Enter moon name into form field 4. Click "Delete"	Moon should be removed from main page view without manual reload	TBD	AJ	in progress

Use Case Id	Test Case Id	Description
UC1	N1	User attempts registration with non-unique username
UC1	N2	User attempts registration with a username longer than 30 characters
UC1	N3	User attempts registration with a password longer than 30 characters
UC2	N4	User attempts login with invalid username
UC2	N5	User attempts login with invalid password
UC2	N6	User attempts login with invalid username and invalid password
UC4	N7	User attempts to add a Planet name that is longer than 30 characters
UC4	N8	User attempts to add an already existing Planet
UC5	N9	User attempts to remove a Planet by entering the wrong planet name
UC6	N10	User attempts to add a Moon name that is longer than 30 characters
UC6	N11	User attempts to add an already existing Moon
UC7	N12	User attempts to remove a Moon by entering the wrong moon name

Subtask Id	AIO Test Case Id	Criteria	username	password	
PLAN-6	PLAN-TC-4	Username: 31 chars Password: 30 chars	usernameismorethan30characters!	passwordisexactly30characters!!	
PLAN-8	PLAN-TC-3	Username: 31 chars Password: 31 chars	usernameismorethan30characters!	passwordthatismorethan30charact	
PLAN-7	PLAN-TC-2	Username: 30 chars Password: 31 chars	usernameisexactly30characters!	passwordthatismorethan30charact	
PLAN-3	PLAN-TC-1	Username: 30 chars Password: 30 chars	usernameisexactly30characters!	passwordisexactly30characters!!	
PLAN-77	PLAN-TC-51	Username: 0 chars Password: 30 chars	-	passwordisexactly30characters!!	
PLAN-78	PLAN-TC-52	Username: 30 chars Password: 0 chars	usernameisexactly30characters!	-	
PLAN-79	PLAN-TC-53	Username: 0 chars Password: 0 chars	-	-	

Subtask Id	AIO Test Case Id	Criteria	Planet Name	Image
PLAN-40	PLAN-TC-20	Planet name: 31 Chars Image Size: No Image	PlanetNamelsMoreThan30Characte	None
PLAN-73	PLAN-TC-22	Planet name: 31 Chars Image Size: Small Image	PlanetNamelsMoreThan30Characte	Small
PLAN-42	PLAN-TC-24	Planet name: 31 Chars Image Size: Large Image	PlanetNamelsMoreThan30Characte	Large
PLAN-38	PLAN-TC-13	Planet name: 30 Chars Image Size: No Image	PlanetNamelsExactly30Character	None
PLAN-37	PLAN-TC-12	Planet name: 30 Chars Image Size: Small Image	PlanetNamelsExactly30Character	Small
PLAN-83	PLAN-TC-54	Planet name: 30 Chars Image Size: Large Image	PlanetNamelsExactly30Character	Large
PLAN-44	PLAN-TC-26	Planet name: 0 Chars Image Size: No Image	-	None
PLAN-82	PLAN-TC-27	Planet name: 0 Chars Image Size: Small Image	-	Small
PLAN-45	PLAN-TC-28	Planet name: 0 Chars Image Size: Large Image	-	Large

Subtask Id	AIO Test Case Id	Criteria	Moon Name	Planet Id	Image
PLAN-51	PLAN-TC-16	Moon name: 30 Chars Planet id: Existing Id Image Size: No Image	MoonNameIsExactly30Characters!	1	None
PLAN-52	PLAN-TC-29	Moon name: 30 Chars Planet id: Existing Id Image Size: Small Image	MoonNameIsExactly30Characters!	1	Small
PLAN-59	PLAN-TC-15	Moon name: 30 Chars Planet id: Existing Id Image Size: Large Image	MoonNameIsExactly30Characters!	1	Large
PLAN-54	PLAN-TC-35	Moon name: 30 Chars Planet id: Invalid Id Image Size: No Image	MoonNameIsExactly30Characters!	100	None
PLAN-62	PLAN-TC-36	Moon name: 30 Chars Planet id: Invalid Id Image Size: Small Image	MoonNameIsExactly30Characters!	100	Small
PLAN-63	PLAN-TC-37	Moon name: 30 Chars Planet id: Invalid Id Image Size: Large Image	MoonNameIsExactly30Characters!	100	Large
PLAN-53	PLAN-TC-32	Moon name: 31 Chars Planet id: Existing Id Image Size: No Image	MoonNameMoreThan30Characters	1	None
PLAN-60	PLAN-TC-33	Moon name: 31 Chars Planet id: Existing Id Image Size: Small Image	MoonNameMoreThan30Characters	1	Small
PLAN-61	PLAN-TC-34	Moon name: 31 Chars Planet id: Existing Id Image Size: Large Image	MoonNameMoreThan30Characters	1	Large
PLAN-56	PLAN-TC-38	Moon name: 31 Chars Planet id: Invalid Id Image Size: No Image	MoonNameMoreThan30Characters	100	None
PLAN-66	PLAN-TC-39	Moon name: 31 Chars Planet id: Invalid Id Image Size: Small Image	MoonNameMoreThan30Characters	100	Small
PLAN-67	PLAN-TC-40	Moon name: 31 Chars Planet id: Invalid Id Image Size: Large Image	MoonNameMoreThan30Characters	100	Large
PLAN-87	PLAN-TC-55	Moon name: 0 Chars Planet id: Existing Id Image Size: No Image	-	1	None

PLAN-88	PLAN-TC-56	Moon name: 0 Chars Planet id: Existing Id Image Size: Small Image	-	1	Small
PLAN-89	PLAN-TC-57	Moon name: 0 Chars Planet id: Existing Id Image Size: Large Image	-	1	Large
PLAN-90	PLAN-TC-58	Moon name: 0 Chars Planet id: Invalid Id Image Size: No Image	-	100	None
PLAN-91	PLAN-TC-59	Moon name: 0 Chars Planet id: Invalid Id Image Size: Small Image	-	100	Small
PLAN-92	PLAN-TC-60	Moon name: 0 Chars Planet id: Invalid Id Image Size: Large Image	-	100	Large

"Create an Account" link is too small and hard to see/read				
Initial page state only allows deletion of moons				
Must select "Planet" in dropdown to activate planet/moon-adding menus				
Unknown size limit on submitted images				
Unknown image type constraints				
Aesthetics could be modernized; currently very dated				
Data in form fields persists after forms are submitted				
all invalid input alerts contain the same message, with no specific information on what inputs are incorrect and the constraints on those inputs				