Test Cases:

**Test Case 1: Verified Space Owners able to create Properties, Listings, Verified Space Finders able to rent listings and review listings (Successful)**

**As NetworkAdmin**

1. Create a SpaceOwner:

\*User = Tania

Condition: NIL

* String firstName: Tania
* String lastName: Joo
* String ID: 001
* String Email: [tania@ruumi.com](mailto:tania@ruumi.com)
* Boolean verified: false
* Integer picture: 12345

Image Reference (for webapp): robin.png

Action: Successful

Rationale: All users are able to create their new profiles.

2. Create a SpaceFinder:

\*User = Alok

Condition: NIL

* String firstName: Alok
* String lastName: Toppo
* String ID: 002
* String Email: [alok@ruumi.com](mailto:alok@ruumi.com)
* Boolean verified: false
* Integer picture: 67890

Image Reference (for webapp): user.png

Action: Successful

Rationale: All users are able to create their new profiles.

3. Verify SpaceOwner and SpaceFinder:

\*User = Admin

Condition: SpaceOwner and SpaceFinder profile created

* Transaction: verifySpaceOwner
* Space Owner ID = 001
* Transaction: verifySpaceFinder
* Space Finder ID = 002

Action: Successful

Rationale: All admin are able to verify the Space Owners and Space Finders

**As SpaceOwner (Create a new SpaceOwner ID matching to Tania)**

4. SpaceOwner add Property:

\*User = Tania

Condition: SpaceOwner verified

Create Property:

* String propertyID: 01
* Boolean verified: false
* String Description: Nice convenient place in chinatown
* Integer verificationpic: 99
* Integer picture1: 1
* Integer picture2: 2
* Integer picture3: 3
* String Address: Chinatown Lane
* Integer Size: 5
* Boolean wifi: true
* Boolean electricity: true
* Boolean aircon: true
* Boolean enclosed: false
* Boolean projector: false
* Boolean whiteboard: true
* Boolean fan: true
* Boolean toilet: true
* Boolean parking: false
* Boolean pantry: false
* Integer chairs: 10
* Integer tables: 2
* Owner ID = 001

Image Reference (for webapp): Verification picture: verificationpic.png ,Picture1: space1.jpg, Picture 2: space3.jpg, Picture 3: space4.jpg

Action: Successful

Rationale: All verified Space Owners are able to add new Properties.

**As NetworkAdmin**

5. Verify Property:

\*User = Admin

Condition: SpaceOwner Verified and Property created

* Transaction: verifyProperty
* Property ID = 01

Action: Successful

Rationale: All admin are able to verify properties.

**As SpaceOwner**

6. SpaceOwner Update Property:

\*User = Tania

Condition: SpaceOwner and Property verified

* Transaction updateProperty:
* Property ID = 01
* String Description: Nice convenient place in chinatown
* String Address: Chinatown Lane
* Integer Size: 5
* Boolean wifi: true
* Boolean electricity: true
* Boolean aircon: true
* Boolean enclosed: false
* Boolean projector: true
* Boolean whiteboard: true
* Boolean fan: true
* Boolean toilet: true
* Boolean parking: false
* Boolean pantry: false
* Integer chairs: 10
* Integer tables: 2

Action: Successful

Rationale: All verified Space Owners with verified Properties are able to update their properties.

7. Create Listing:

\*User = Tania

Condition: SpaceOwner and Property verified

* String listingID: 123
* Integer price: 10
* DateTime datestart: 2018-04-22T07:25:29.954Z
* Boolean rented: false
* Property ID = 01

Action: Successful

Rationale: All verified Space Owners with verified Properties are able to create their new listings.

8. SpaceOwner update Listing:

\*User = Tania

Condition: SpaceOwner and Property verified, Listing Created

* Transaction: updateListing
* String listingID: 123
* Integer price: 10
* DateTime datestart: 2018-04-22T07:34:52.705Z

Action: Successful

Rationale: All verified Space Owners with verified Properties are able to update their listings.

**As SpaceFinder (Create a new SpaceOwner ID matching to Alok)**

9. SpaceFinder rents listing:

\*User = Alok

Condition: Listing created and SpaceFinder verified

* Transaction: rentListing
* SpaceFinder ID = 002
* Listings = ["resource:org.acme.ruumi.Listing#123" ]
* Rental ID = 99

Action: Successful

Rationale: All verified Space Finders are able to rent listings.

**As SpaceOwner**

10. SpaceOwner sees Rental

\*User = Tania

Condition: SpaceOwner, Property Verified, rental is from a listing by the SpaceOwner

* Transaction: seenRental
* Rental ID = 99

Action: Successful

Rationale: All verified Space Owners should indicate that they’ve acknowledged a new rental so that the SpaceFinder knows that everything will be in place.

**As SpaceFinder**

11. SpaceFinder write Review:

\*User = Alok

Condition: SpaceFinder verified, Rental finished

* Transaction: reviewRental:
* Rental ID = 99
* String reviewsID: 100
* String review: Great convenient place
* Boolean wifi: true
* Boolean electricity: true
* Boolean aircon: true
* Boolean enclosed: false
* Boolean projector: true
* Boolean whiteboard: true
* Boolean fan: true
* Boolean toilet: true
* Boolean parking: false
* Boolean pantry: false
* Integer chairs: 10
* Integer tables: 2
* Integer Rating: 4

Action: Successful

Rationale: All verified Space Finders who have finished a rental are able to write a review on the property.

**Test Case 2: Unverified Space Owners unable to create new Properties. (Unsuccessful)**

**As NetworkAdmin**

1, Create a SpaceOwner:

\*User = Tania

Condition: NIL

* String firstName: Tania
* String lastName: Joo
* String ID: 001
* String Email: [tania@ruumi.com](mailto:tania@ruumi.com)
* Boolean verified: false
* Integer picture: 12345

Action: Successful

Rationale: All users are able to create their new profiles.

**As SpaceOwner**

2. SpaceOwner add Property:

\*User = Tania

Condition: SpaceOwner verified

Create Property:

* String propertyID: 01
* Boolean verified: false
* String Description: Nice convenient place in chinatown
* Integer verificationpic: 99
* Integer picture1: 1
* Integer picture2: 2
* Integer picture3: 3
* String Address: Chinatown Lane
* Integer Size: 5
* Boolean wifi: true
* Boolean electricity: true
* Boolean aircon: true
* Boolean enclosed: false
* Boolean projector: false
* Boolean whiteboard: true
* Boolean fan: true
* Boolean toilet: true
* Boolean parking: false
* Boolean pantry: false
* Integer chairs: 10
* Integer tables: 2
* Owner ID = 001

Action: Unsuccessful

Rationale: All unverified Space Owners are unable to create new properties.

**Test Case 3: Unverified Space Finder unable to rent listings (Unsuccessful)**

**As NetworkAdmin**

1. Create a SpaceOwner:

\*User = Tania

Condition: NIL

* String firstName: Tania
* String lastName: Joo
* String ID: 001
* String Email: [tania@ruumi.com](mailto:tania@ruumi.com)
* Boolean verified: false
* Integer picture: 12345

Action: Successful

Rationale: All users are able to create their new profiles.

2. Create a SpaceFinder:

\*User = Alok

Condition: NIL

* String firstName: Alok
* String lastName: Toppo
* String ID: 002
* String Email: [alok@ruumi.com](mailto:alok@ruumi.com)
* Boolean verified: false
* Integer picture: 67890

Action: Successful

Rationale: All users are able to create their new profiles.

3. Verify SpaceOwner

\*User = Admin

Condition: SpaceOwner and SpaceFinder profile created

* Transaction: verifySpaceOwner
* Space Owner ID = 001

Action: Successful

Rationale: All admin are able to verify the Space Owners

**As SpaceOwner**

4. SpaceOwner add Property:

\*User = Tania

Condition: SpaceOwner verified

Create Property:

* String propertyID: 01
* Boolean verified: false
* String Description: Nice convenient place in chinatown
* Integer verificationpic: 99
* Integer picture1: 1
* Integer picture2: 2
* Integer picture3: 3
* String Address: Chinatown Lane
* Integer Size: 5
* Boolean wifi: true
* Boolean electricity: true
* Boolean aircon: true
* Boolean enclosed: false
* Boolean projector: false
* Boolean whiteboard: true
* Boolean fan: true
* Boolean toilet: true
* Boolean parking: false
* Boolean pantry: false
* Integer chairs: 10
* Integer tables: 2
* Owner ID = 001

Action: Successful

Rationale: All verified Space Owners are able to add new Properties.

**As NetworkAdmin**

5. Verify Property:

\*User = Admin

Condition: SpaceOwner Verified and Property created

* Transaction: verifyProperty
* Property ID = 01

Action: Successful

Rationale: All admin are able to verify properties.

**As SpaceOwner**

6. Create Listing:

\*User = Tania

Condition: SpaceOwner and Property verified

* String listingID: 123
* Integer price: 10
* DateTime datestart: 2018-04-22T07:25:29.954Z
* Boolean rented: false
* Property ID = 01

Action: Successful

Rationale: All verified Space Owners with verified Properties are able to create their new listings.

**As SpaceFinder**

7. SpaceFinder rents listing:

\*User = Alok

Condition: Listing created and SpaceFinder verified

* Transaction: rentListing
* SpaceFinder ID = 002
* Listings = ["resource:org.acme.ruumi.Listing#123" ]
* Rental ID = 99

Action: Unsuccessful

Rationale: All unverified Space Finders are unable to rent listings.

**Test Case 4: Space Finders who did not rent a listing unable to write a review (Unsuccessful)**

**As NeworkAdmin**

1. Create a SpaceOwner:

\*User = Tania

Condition: NIL

* String firstName: Tania
* String lastName: Joo
* String ID: 001
* String Email: [tania@ruumi.com](mailto:tania@ruumi.com)
* Boolean verified: false
* Integer picture: 12345

Action: Successful

Rationale: All users are able to create their new profiles.

2. Create a SpaceFinder:

\*User = Alok

Condition: NIL

* String firstName: Alok
* String lastName: Toppo
* String ID: 002
* String Email: [alok@ruumi.com](mailto:alok@ruumi.com)
* Boolean verified: false
* Integer picture: 67890

Action: Successful

Rationale: All users are able to create their new profiles.

3. Verify SpaceOwner and SpaceFinder:

\*User = Admin

Condition: SpaceOwner and SpaceFinder profile created

* Transaction: verifySpaceOwner
* Space Owner ID = 001
* Transaction: verifySpaceFinder
* Space Finder ID = 002

Action: Successful

Rationale: All admin are able to verify the Space Owners and Space Finders

**As SpaceOwner**

4. SpaceOwner add Property:

\*User = Tania

Condition: SpaceOwner verified

Create Property:

* String propertyID: 01
* Boolean verified: false
* String Description: Nice convenient place in chinatown
* Integer verificationpic: 99
* Integer picture1: 1
* Integer picture2: 2
* Integer picture3: 3
* String Address: Chinatown Lane
* Integer Size: 5
* Boolean wifi: true
* Boolean electricity: true
* Boolean aircon: true
* Boolean enclosed: false
* Boolean projector: false
* Boolean whiteboard: true
* Boolean fan: true
* Boolean toilet: true
* Boolean parking: false
* Boolean pantry: false
* Integer chairs: 10
* Integer tables: 2
* Owner ID = 001

Action: Successful

Rationale: All verified Space Owners are able to add new Properties.

**As NetworkAdmin**

5. Verify Property:

\*User = Admin

Condition: SpaceOwner Verified and Property created

* Transaction: verifyProperty
* Property ID = 01

Action: Successful

Rationale: All admin are able to verify properties.

**As SpaceOwner**

6. Create Listing:

\*User = Tania

Condition: SpaceOwner and Property verified

* String listingID: 123
* Integer price: 10
* DateTime datestart: 2018-04-22T07:25:29.954Z
* Boolean rented: false
* Property ID = 01

Action: Successful

Rationale: All verified Space Owners with verified Properties are able to create their new listings.

**As SpaceFinder**

7. SpaceFinder write Review:

\*User = Alok

Condition: SpaceFinder verified, Rental finished

* Transaction: reviewRental:
* Rental ID = 99
* String reviewsID: 100
* String review: Great convenient place
* Boolean wifi: true
* Boolean electricity: true
* Boolean aircon: true
* Boolean enclosed: false
* Boolean projector: true
* Boolean whiteboard: true
* Boolean fan: true
* Boolean toilet: true
* Boolean parking: false
* Boolean pantry: false
* Integer chairs: 10
* Integer tables: 2
* Integer Rating: 4

Action: Unsuccessful

Rationale: All verified Space Finders who have not finished a rental are unable to write a review on the property.