**Supplementary Requirement Release 3**

1. FV - Field Validation Requirements

1.1. Field "Property Name"

Scope:

• 04.01 Add Property

• 04.02 Update Property

Requirements:

• Field size should be between 1 and 50 characters.

• Field is mandatory, system will not allow to proceed without a property name.

Conditions to Apply: After the respective join points.

1.2. Field "Price"

Scope:

• 04.01 Add Property

• 04.02 Update Property

Requirements:

• Field should be a positive numeric value.

• Field is mandatory, system will not allow to proceed without a price.

Conditions to Apply: After the respective join points.

1.3. Field "Contact Email"

Scope:

• 04.05 Show Contact Info

Requirements:

• Field should be a valid email address format.

• Field is mandatory, system will not allow to proceed without a contact email.

Conditions to Apply: After the respective join points.

1.4. Field "Amenities"

Scope:

• 04.01 Add Property

• 04.02 Update Property

Requirements:

• At least one amenity must be selected from the provided list.

• Field is mandatory, system will not allow to proceed without selecting an amenity.

Conditions to Apply: After the respective join points.

2. DDV - Data-Dependency Validation

Scope:

01.03 Search By Criteria

04.01 Add Property

04.02 Update Property

04.05 Show Contact Info

DDV - Property Type and Number of Bedrooms Combination

Scope:

• 04.01 Add Property

• 04.02 Update Property

Requirements:

• If the property type is "Studio Apartment," the number of bedrooms should not exceed one.

Conditions to Apply: After the respective join points.

DDV - Contact Info and Availability Status

Scope:

• 04.02 Update Property

• 04.05 Show Contact Info

Requirements:

• If the property's availability status is set to "Not Available," the contact information should be provided.

Conditions to Apply: After the respective join points.

DDV - Criteria Search and Minimum Price

Scope:

• 01.03 Search By Criteria

Requirements:

• If a minimum price is specified in the search criteria, the search results should only include properties with a price equal to or greater than the specified minimum.

Conditions to Apply: After the respective join points.

DDV - Property Amenities and Type

Scope:

• 04.01 Add Property

• 04.02 Update Property

Requirements:

• The selected amenities should be appropriate for the chosen property type (e.g., a "Swimming Pool" amenity should not be available for a "Studio Apartment" type).

Conditions to Apply: After the respective join points.

**Supplementary Requirement Release 4**

**1. FV - Field Validation Requirements**

**1.1 FV - Address Validation**

Scope:

* 05.01 Validate Address

Requirements:

* Address fields (e.g., street, city, postal code) should undergo validation checks to ensure completeness and accuracy.
* Postal code format should match the specified region's postal code structure.
* If address validation fails, the system must provide specific error notifications indicating the problematic fields.

Conditions to Apply:

* After address entry or update attempts.

**1.2 FV - Contact Information Validation**

Scope:

* 05.02 Validate Contact Info

Requirements:

* Contact information fields (e.g., phone number, email) should follow respective validation rules.
* Phone numbers should adhere to the designated format (e.g., country code, number of digits).
* Email addresses should comply with standard email format requirements.
* If contact information validation fails, the system must provide specific error notifications indicating the problematic fields.

Conditions to Apply:

* During contact information entry or update.

**2. DDV - Data-Dependency Validation**

* 1. **DDV - Property Type and Bedroom Count**

Scope:

* 04.03 Delete Property

Requirements:

* If the property type is marked as a "Studio Apartment," the number of bedrooms associated with that property should not exceed one.
* When attempting to delete a property, verify the property type and associated bedroom count to ensure compliance with this dependency validation.
* If the property type and bedroom count do not align with the dependency rule, the system should block the property deletion process and explicitly inform the user about the rule violation.

Conditions to Apply:

* During the property deletion process.

**3. SI-In - System Interface Inbound**

**3.1 SI-In - Address Validation Integration**

Scope:

* 05.01 Validate Address

Requirements:

* The system interface should accept address data in various formats (e.g., JSON, XML) as defined in the API documentation.
* Conduct tests by submitting address validation requests in different formats to ensure compatibility and proper ingestion.
* Verify that the system accurately detects and processes address-related errors (invalid format, missing fields) and provides relevant error messages.

Conditions to Apply:

* During address validation API interaction.

**3.1 SI-In - Contact Information Validation Integration**

Scope:

* 05.02 Validate Contact Info

Requirements:

* The system interface should effectively receive and process contact information (e.g., phone numbers, emails) sent through inbound interactions.
* Test the interface by sending various contact information with incomplete or incorrect formats to ensure accurate validation and error handling.
* Ensure that the system responds with precise error messages when incomplete or erroneous contact information is detected.

Conditions to Apply:

* During contact information validation API interaction.