**Test Case for Use Case 1: Landlord Posts a Property Listing**

**Feature:** Post a property listing  
**Use Case:** Landlord Posts a Property Listing

**Test Specification**

1. **Verify Landlord Identity**
   * **Equivalence Classes for Verification:**
     + Successful Verification (valid credentials provided)
     + Unsuccessful Verification (invalid credentials provided)
   * **Test Case:**
     + **Test ID:** TC1.1
     + **Input:** Valid landlord credentials
     + **Expected Result:** Verification successful, process proceeds to next step (input property details)
2. **Input Property Details**
   * **Equivalence Classes for Property Details Validation:**
     + Valid details (e.g., correct format, required fields filled)
     + Invalid details (e.g., missing or incorrect format in one or more fields)
   * **Test Case:**
     + **Test ID:** TC1.2
     + **Input:** Valid property details (e.g., address, price, description, type)
     + **Expected Result:** Details validated successfully, proceeds to upload media
3. **Upload Media**
   * **Equivalence Classes for Media Upload:**
     + Valid media (e.g., images and videos in supported formats)
     + Invalid media (e.g., unsupported file type, large file size)
   * **Test Case:**
     + **Test ID:** TC1.3
     + **Input:** Supported image and video files within the size limit
     + **Expected Result:** Media uploaded successfully, property details are sent to Property Database
4. **Store Property in Database**
   * **Equivalence Classes for Storage Confirmation:**
     + Successful storage confirmation
     + Failed storage (e.g., database connectivity issue)
   * **Test Case:**
     + **Test ID:** TC1.4
     + **Input:** All validated property details and media files
     + **Expected Result:** Property listing stored successfully, confirmation sent to landlord

**Test Case for Use Case 2: Student Applies for a Property**

**Feature:** Apply for a property  
**Use Case:** Student Applies for a Property

**Test Specification**

1. **Search Property**
   * **Equivalence Classes for Search Input:**
     + Valid search criteria (e.g., location, price range, property type)
     + Invalid search criteria (e.g., empty search, invalid location)
   * **Test Case:**
     + **Test ID:** TC2.1
     + **Input:** Valid search criteria (e.g., location, budget range)
     + **Expected Result:** Search System retrieves a list of matching property listings from Property Listing System
2. **Apply for Property**
   * **Equivalence Classes for Property Application:**
     + Valid application (e.g., all required fields filled accurately)
     + Invalid application (e.g., missing information in one or more fields)
   * **Test Case:**
     + **Test ID:** TC2.2
     + **Input:** Complete and accurate application details
     + **Expected Result:** Application details are collected by Application Management System
3. **Verify Application Details**
   * **Equivalence Classes for Application Verification:**
     + Complete application (all required details present)
     + Incomplete application (missing or incorrect details)
   * **Test Case:**
     + **Test ID:** TC2.3
     + **Input:** Complete application (no missing fields)
     + **Expected Result:** Application verified as complete, proceeds to submission to the landlord
4. **Submit Application to Landlord**
   * **Equivalence Classes for Submission:**
     + Successful submission to landlord
     + Failed submission (e.g., network issue, landlord unavailable)
   * **Test Case:**
     + **Test ID:** TC2.4
     + **Input:** Verified application details ready for submission
     + **Expected Result:** Application successfully submitted to landlord
5. **Update Application Status**
   * **Equivalence Classes for Status Update:**
     + Application accepted (lease agreement generated)
     + Application rejected
   * **Test Case:**
     + **Test ID:** TC2.5
     + **Input:** Landlord reviews and accepts the application
     + **Expected Result:** Application Management System updates application status to accepted, generates lease agreement