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| **Use Case:** *Add Property* |

<<includes>>

Estate Agent

Owner

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| **Use Case Name** | Add Owner | |
| **Use Case Id** |  | |
| **Priority** | 1 | |
| **Source** | Estate Agent | |
| **Primary Business Actor** | Estate Agent | |
| **Other Participating Actors** | Owner | |
| **Description** | This function will add Property Details to system. | |
| **Preconditions** |  | |
| **Trigger** |  | |
| **Expected Scenario** | **Estate Agent** | **System** |
|  | **Step 1:** Invoke add property  **Step 4:** Estate Agent Searches by Owner Surname.  **Step 7:** Estate Agent enters owner’s data:   * Select Appropriate owner. * Select Property Type. (from list) * House Name or House Number. (text) * Eircode (Text) * Rental price per month * Property Description. (text) * Total number of rooms * Number of standard bedrooms. (number) * Number of ensuite bedrooms. (number) * Number of Bathrooms. (number) * Garden space (yes / no). * Parking Spaces (number). * Pets allowed (yes/ no). * Heating source (text). * Wifi Included? (yes/No). * Owner Occupied? (Yes/No) | **Step 2:** Retrieve required data:   * Property Types from Property Types data store.   **Step 3:** Display add Property User interface.  **Step 5:** Retrieve List of Owners with surname entered.  **Step 6:** Display Add Property Details.  **Step 8:** Validate property data:   * House Name or Number must not be empty. * Property type must be selected. * Owner must be selected. * Eircode must be valid. * Rental price per month must be positive number. * Property description must not be empty * Number of rooms must be positive numeric and be at least 1. * Number of bedrooms must be positive numeric. * Number of bedrooms cannot exceed total rooms. * Number of ensuite bedrooms must be positive numeric. * Number of Ensuite bedrooms cannot exceed total bedrooms & cannot exceed total bathrooms. * Number of bathrooms must be positive numeric. * Number of bathrooms, bedrooms cannot exceed total rooms. * Parking spaces must be positive numeric. * Heating source must not be empty.   **Step 9:** Setproperty status to Available.  **Step 10:** Save data to properties file.  **Step 11:** Display confirmation message.  **Step 12:** Reset UI. |
| **Alternate Scenarios** | **Actor** | **System** |
| **Search Field Returns None:**  **Invalid Data Entered:** |  | **Step 5:** No owners with searched surname found.  **Step 6:** display error message.  **Step 7:** return to step 4.  **Step 8:** Invalid data entered.  **Step 9:** Display appropriate error message.  **Step 10:** Return to step 7. |
| **Conclusions** | Properties details have been added to the system. | |
| **Post conditions** | Property added can now be rented. | |
| **Business Rules** | Property Status can be Available, Rented, or Unavailable.  Properties must have at least 1 room to be added. | |
| **Implementation Constraints** |  | |