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| **Use Case Name:** | Submit Real Estate Listing | |
| **Description:** | This method allows a real estate office to submit a real estate listing to the REMLS system on behalf of an agent. | |
| **Actor(s):** | Real Estate Office Admin | |
| **Preconditions:** | Real Estate Office must be in the system  Real Estate Agent must be in the system | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. LoginUser  (  Username, Password  )    3. LookUp( officeID, agentName )  4. submitListing  (  AgentID, Address, yearBuilt,  squareFootage,  numOfBedrooms,  numOfBathrooms,  ownerName, ownerNumber,  askingPrice, statusCode,  officeID, officeNumber,  date, time  ) | 2. Login User – Return  OfficeAccount:OfficeAccounts  4. Agents[]        5. add listing confirmation |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | A real estate listing is added to the system | |
| **Outstanding Issues:** |  | |
| **Use Case Name:** | Update Real Estate Listing | |
| **Description:** | Used by Real Estate Office to update aspects of a current listing | |
| **Actor(s):** | Real Estate Office Admin | |
| **Preconditions:** | Real Estate Office must be in the system  Real Estate Listing must be in the system | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. LoginUser  (  Username, Password  )    3. LookUp(address)  4. updateListing  (  AgentID, Address, yearBuilt,  squareFootage,  numOfBedrooms,  numOfBathrooms,  ownerName, ownerNumber,  askingPrice, statusCode  ) | 2. Login User – Return  OfficeAccount:OfficeAccounts  4. Listing:Listings        5. Update Listing Confirmation |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | A real estate listing is updated | |
| **Outstanding Issues:** |  | |

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| **Use Case Name:** | Add Real Estate Agent to system | |
| **Description:** | Used to add a real estate agent that works for an real estate office to the system | |
| **Actor(s):** | Real Estate Office Admin | |
| **Preconditions:** | Real Estate Office must be in the system | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. LoginUser  (  Username,  Password  )  3. createRealEstateAgentAccount  (  officeID, agentFirstName,  AgentLastName, AgentNumber,  AgentLicenseNum, agentAddress,  Username, Password  ) | 2. Login User – return  officeAccount:officeAccounts  4. Confirmation |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | A Real Estate Agent Account is added to the system under the office account with username and password | |
| **Outstanding Issues:** |  | |

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| **Use Case Name:** | Add Real Estate Office to System | |
| **Description:** | Adds a Real Estate Office with a unique ID, username and password to access the REMLS system | |
| **Actor(s):** | REMLS Admin | |
| **Preconditions:** | No Preconditions | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. addRealEstateOffice  (  OfficeName, OfficeNumber,  OfficeAddress, OfficeCity,  officeProvince, officePostalCode,  Username, Password  ) | 2. confirmation |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | Real Estate Office added to the system | |
| **Outstanding Issues:** |  | |

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| **Use Case Name:** | Search REMLS for Listing | |
| **Description:** | Used to Search the listings in the system | |
| **Actor(s):** | Agent | |
| **Preconditions:** | There must be listings in the system  The real estate agent must be in the system | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. LoginUser  (  Username, Password  )    3. searchListings  (  DesiredLocation,  SquareFootRange, desiredAge,  DesiredNumOfBedrooms,  DesiredNumOfBathrooms,  PriceRange, statusCode  )    5. lookup(listingID) | 2. Agent:Agents  4. Listings[] – Any listings that falls in  the desired ranges.  6. return listing:listings |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | Returns a single listing that fits the desired search criteria from the agent | |
| **Outstanding Issues:** |  | |

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| **Use Case Name:** | Produce Listing Book | |
| **Description:** | Selects and sorts all listings for a bi monthly book | |
| **Actor(s):** | REMLS Admin | |
| **Preconditions:** | There must be listings in the system to add to the book | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. obtainListingsForBook  (  statusCode  )  3. CreateListingBook  (  Listings[], date  ) | 2. listings[]  4. confirmation – new book created with  unique bookID |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | Creates a collection of available listings and adds them to a book to be printed | |
| **Outstanding Issues:** |  | |

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| **Use Case Name:** | Create Shipping Order for Book | |
| **Description:** | Creates a shipping order to track the shipping of books to agents | |
| **Actor(s):** | REMLS Admin | |
| **Preconditions:** | There must be a book in the system  There must be Real Estate Agents in the system | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. lookup(Agents)  3. lookup(date)  5. createShippingOrder  (  agentFirstName,  agentLastName,  agentAddress,  agentID,  bookID, date  ) | 2. return Agents[]  4. return Books[]  6. Confirmation – new shippingOrder  created with unique ID |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | A new shipping order has been created in the system | |
| **Outstanding Issues:** |  | |

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| **Use Case Name:** | Login User | |
| **Description:** | Used to log users into the system | |
| **Actor(s):** | Agent  Real Estate Office Admin | |
| **Preconditions:** | Agent Must be in the system,  Real Estate Office must be in the system | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. LoginUser  (  Username,  Password  ) | 2. return Object() |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | The user is logged in and the user info is returned | |
| **Outstanding Issues:** | * Agents User * Real Estate Office User | |

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| **Use Case Name:** | LookUp | |
| **Description:** | Used to look up information in the system | |
| **Actor(s):** | Agent  Real Estate Office Admin  REMLS Admin | |
| **Preconditions:** |  | |
| **Trigger:** |  | |
| **Normal flow of events:** | **Actor action** | **System Response** |
| 1. LookUp  (  Argument(s)  ) | 2. return Object() or <List>Objects |
| **Alternate flow of events:** |  |  |
| **Post-conditions:** | Depending on arguments will return either a specific object or a list of objects | |
| **Outstanding Issues:** | * OfficeID * AgentName or AgentID or <list>Agents * listingID * date | |