



RMIT
UNIVERSITY

ISYS3413:

Software Engineering Fundamentals

Assignment 4

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Test Cases for Real Estate System

Test Cases	Test Data	Expected Result	Test Result	Pass/Fail
Add House Test Cases				
Testing condition 1 Test Case 1 ID = "ABC3100200" (10) Address= "123 Spencer" Type= "Apartment" Price= 250100 Bedrooms=3 Bathrooms=2 Car space=1 Size= 25 m Description = "Very attractive and Affordable Apartment"	("ABC3100201", "123 Spencer", "Apartment", 250100, 3,2,1,25, "Very attractive and Affordable Apartment")	Success	Success	Pass
Testing condition 1 Test Case 2 ID = "ABC200100" (9) Address= "123 Spencer" Type= "Apartment" Price= 250100 Bedrooms=3 Bathrooms=2	("ABC200102", "123 Spencer", "Apartment", 250100, 3,2,1,25,	Fail	Fail	Pass

<p>Car space=1</p> <p>Size= 25 m</p> <p>Description = “Very attractive and Affordable Apartment”</p>	<p>“Very attractive and Affordable Apartment”)</p>			
<p>Testing condition 1</p> <p>Test Case 3</p> <p>ID = “ABC30100200” (11)</p> <p>Address= “123 Spencer”</p> <p>Type= “Apartment”</p> <p>Price= 250100</p> <p>Bedrooms=3</p> <p>Bathrooms=2</p> <p>Car space=1</p> <p>Size= 25 m</p> <p>Description = “Very attractive and Affordable Apartment”</p>	<p>(“ABC30100203”,</p> <p>“123 Spencer”,</p> <p>“Apartment”,</p> <p>250100,</p> <p>3,2,1,25,</p> <p>“Very attractive and Affordable Apartment”)</p>	Fail	Fail	Pass
<p>Testing condition 1</p> <p>Test Case 4</p> <p>ID = “AbC3100200” (case)</p> <p>Address= “123 Spencer”</p> <p>Type= “Apartment”</p> <p>Price= 250100</p> <p>Bedrooms=3</p>	<p>(“AbC3100204”,</p> <p>“123 Spencer”,</p> <p>“Apartment”,</p> <p>250100,</p> <p>3,2,1,25,</p>	Fail	Fail	Pass

Bathrooms=2 Car space=1 Size= 25 m Description = “Very attractive and Affordable Apartment”	“Very attractive and Affordable Apartment”)			
Testing condition 1 Test Case 5 ID = “ABC3100200” Address= “123 Spencer” Type= “Apartment” Price= 250100 Bedrooms=3 Bathrooms=2 Car space=1 Size= 25 m Description = “Very attractive and Affordable” (4)	(“ABC3100205”, “123 Spencer”, “Apartment”, 250100, 3,2,1,25, “Very attractive and Affordable “)	Fail	Fail	Pass
Testing condition 1 Test Case 6 ID = “ABC3100200” Address= “123 Spencer” Type= “Apartment” Price= 250100 Bedrooms=3 Bathrooms=2 Car space=1 Size= 25 m	(“ABC3100206”, “123 Spencer”, “Apartment”, 250100, 3,2,1,25, “Very attractive and Affordable Apartment. Proximity to transport, school, shops.”)	Success	Success	Pass

Description = “Very attractive and Affordable Apartment. Proximity to transport, school, shops.” (10 words)				
<p>Testing condition 1</p> <p>Test Case 7</p> <p>ID = “ABC3100200”</p> <p>Address= “123 Spencer”</p> <p>Type= “Apartment”</p> <p>Price= 250100</p> <p>Bedrooms=3</p> <p>Bathrooms=2</p> <p>Car space=1</p> <p>Size= 25 m</p> <p>Description = “Very attractive and Affordable Apartment. Proximity to transport, school, and shops” (11-words)</p>	<p>(“ABC3100207”,</p> <p>“123 Spencer”,</p> <p>“Apartment”,</p> <p>250100,</p> <p>3,2,1,25,</p> <p>“Very attractive and Affordable Apartment. Proximity to transport, school, and shops”)</p>	Fail	Fail	Pass
<p>Testing condition 2</p> <p>Test Case 8</p> <p>ID = “ABC3100200”</p> <p>Address= “123 Spencer”</p> <p>Type= “Apartment”</p> <p>Price= 250100</p> <p>Bedrooms=5</p> <p>Bathrooms=3 (5 & 3)</p> <p>Car space=1</p> <p>Size= 25 m</p>	<p>(“ABC3100208”,</p> <p>“123 Spencer”,</p> <p>“Apartment”,</p> <p>250100,</p> <p>5,3,1,25,</p> <p>“Very attractive and Affordable Apartment”)</p>	Success	Success	Pass

Description = “Very attractive and Affordable Apartment”				
Testing condition 2 Test Case 9 ID = “ABC3100200” Address= “123 Spencer” Type= “Apartment” Price= 250100 Bedrooms=5 Bathrooms=2 (5 & 2) Car space=1 Size= 25 m Description = “Very attractive and Affordable Apartment”	(“ABC3100209”, “123 Spencer”, “Apartment”, 250100, 5,2,1,25, “Very attractive and Affordable Apartment”)	Fail	Fail	Pass
Testing condition 2 Test Case 10 ID = “ABC3100200” Address= “123 Spencer” Type= “Apartment” Price= 250100 Bedrooms=5 Bathrooms=2 (4 & 2) Car space=1 Size= 25 m Description = “Very attractive and Affordable Apartment”	(“ABC3100210”, “123 Spencer”, “Apartment”, 250100, 5,2,1,25, “Very attractive and Affordable Apartment”)	Success	Success	Pass

<p>Testing condition 3</p> <p>Test Case 11</p> <p>ID = “ABC3100200”</p> <p>Address= “123 Spencer”</p> <p>Type= “Apartment”</p> <p>Price= 250100</p> <p>Bedrooms=5</p> <p>Bathrooms=3 (5 & 3)</p> <p>Car space=1</p> <p>Size= 49 m</p> <p>Description = “Very attractive and Affordable Apartment”</p>	<p>(“ABC3100211”,</p> <p>“123 Spencer”,</p> <p>“Apartment”,</p> <p>250100,</p> <p>5,3,1,49,</p> <p>“Very attractive and Affordable Apartment”)</p>	Success	Success	Pass
<p>Testing condition 3</p> <p>Test Case 12</p> <p>ID = “ABC3100200”</p> <p>Address= “123 Spencer”</p> <p>Type= “Apartment”</p> <p>Price= 350100</p> <p>Bedrooms=5</p> <p>Bathrooms=3 (5 & 3)</p> <p>Car space=1</p> <p>Size= 49 m</p> <p>Description = “Very attractive and Affordable Apartment”</p>	<p>(“ABC3100212”,</p> <p>“123 Spencer”,</p> <p>“Apartment”,</p> <p>350100,</p> <p>5,3,1,49,</p> <p>“Very attractive and Affordable Apartment”)</p>	Fail	Fail	Pass
<p>Testing condition 3</p> <p>Test Case 13</p> <p>ID = “ABC3100200”</p> <p>Address= “123 Spencer”</p>	<p>(“ABC3100213”,</p> <p>“123 Spencer”,</p> <p>“Apartment”,</p>	Success	Success	Pass

Type= "Apartment" Price= 350100 Bedrooms=5 Bathrooms=3 (5 & 3) Car space=1 Size= 50 m Description = "Very attractive and Affordable Apartment"	350100, 5,3,1,50, "Very attractive and Affordable Apartment")			
Testing condition 4 Test Case 14 ID = "ABC3100200" Address= "123 Spencer" Type= "Apartment" Price= 250100 Bedrooms=5 Bathrooms=3 (5 & 3) Car space=0 Size= 49 m Description = "Very attractive and Affordable Apartment"	("ABC3100214", "123 Spencer", "Apartment", 250100, 5,3,0,49, "Very attractive and Affordable Apartment")	Fail	Fail	Pass
Testing condition 4 Test Case 15 ID = "ABC3100200" Address= "123 Spencer" Type= "House" Price= 250100 Bedrooms=5	("ABC3100215", "123 Spencer", "House", 250100, 5,3,0,49,	Success	Success	Pass

Bathrooms=3 (5 & 3) Car space=0 Size= 49 m Description = “Very attractive and Affordable Apartment”	“Very attractive and Affordable Apartment”)			
Testing condition 5 Test Case 16 ID = “ABC3100200” Address= “123 Spencer” Type= “House” Price= 100000 Bedrooms=5 Bathrooms=3 (5 & 3) Car space=0 Size= 49 m Description = “Very attractive and Affordable Apartment”	(“ABC3100216”, “123 Spencer”, “House”, 100000, 5,3,0,49, “Very attractive and Affordable Apartment”)	Success	Success	Pass
Testing condition 5 Test Case 17 ID = “ABC3100200” Address= “123 Spencer” Type= “House” Price= 1500000 Bedrooms=5 Bathrooms=3 (5 & 3) Car space=0 Size= 50 m	(“ABC3100217”, “123 Spencer”, “House”, 1500000, 5,3,0,50, “Very attractive and Affordable Apartment”)	Success	Success	Pass

Description = “Very attractive and Affordable Apartment”				
Testing condition 5 Test Case 18 ID = “ABC3100200” Address= “123 Spencer” Type= “House” Price= 1500001 Bedrooms=5 Bathrooms=3 (5 & 3) Car space=0 Size= 50 m Description = “Very attractive and Affordable Apartment”	(“ABC3100218”, “123 Spencer”, “House”, 1500001, 5,3,0,50, “Very attractive and Affordable Apartment”)	Fail	Fail	Pass
Testing condition 5 Test Case 19 ID = “ABC3100200” Address= “123 Spencer” Type= “House” Price= 99999 Bedrooms=5 Bathrooms=3 (5 & 3) Car space=0 Size= 50 m Description = “Very attractive and Affordable Apartment”	(“ABC3100219”, “123 Spencer”, “House”, 99000, 5,3,0,50, “Very attractive and Affordable Apartment”)	Fail	Fail	Pass

<p>Testing condition 6</p> <p>Test Case 20</p> <p>ID = "ABC3100200"</p> <p>Address= "123 Spencer"</p> <p>Type= "House"</p> <p>Price= 750000</p> <p>Bedrooms=2</p> <p>Bathrooms=1</p> <p>Car space=0</p> <p>Size= 50 m</p> <p>Description = "Very attractive and Affordable Apartment"</p>	<p>("ABC3100220", "123 Spencer", "House", 750000, 2,1,0,50, "Very attractive and Affordable Apartment")</p>	Success	Success	Pass
<p>Testing condition 6</p> <p>Test Case 21</p> <p>ID = "ABC3100200"</p> <p>Address= "123 Spencer"</p> <p>Type= "House"</p> <p>Price= 750001</p> <p>Bedrooms=2</p> <p>Bathrooms=1</p> <p>Car space=0</p> <p>Size= 50 m</p> <p>Description = "Very attractive and Affordable Apartment"</p>	<p>("ABC3100221", "123 Spencer", "House", 750001, 2,1,0,50, "Very attractive and Affordable Apartment")</p>	Fail	Fail	Pass
<p>Testing condition 6</p> <p>Test Case 22</p> <p>ID = "ABC3100200"</p> <p>Address= "123 Spencer"</p>	<p>("ABC3100222", "123 Spencer", "House",</p>	Success	Success	Pass

Type= "House" Price= 750001 Bedrooms=3 Bathrooms=1 Car space=0 Size= 50 m Description = "Very attractive and Affordable Apartment"	750001, 3,1,0,50, "Very attractive and Affordable Apartment")			
Testing condition 6 Test Case 23 ID = "ABC3100200" Address= "123 Spencer" Type= "House" Price= 750001 Bedrooms=2 Bathrooms=2 Car space=0 Size= 50 m Description = "Very attractive and Affordable Apartment"	("ABC3100223", "123 Spencer", "House", 750001, 2,2,0,50, "Very attractive and Affordable Apartment")	Success	Success	Pass
Testing condition 6 Test Case 24 ID = "ABC3100200" Address= "123 Spencer" Type= "House" Price= 750001 Bedrooms=3	("ABC3100224", "123 Spencer", "House", 750001, 3,2,0,50,	Success	Success	Pass

Bathrooms=2 Car space=0 Size= 50 m Description = “Very attractive and Affordable Apartment”	“Very attractive and Affordable Apartment”)			
Edit House Test Cases				
Testing condition 1 edit house Edit Test Case 25 Select house "ABC3100223" 2-bedroom house New Address= same address New Type= same type New Price= current price * 1.10 New Bedrooms=2 New Bathrooms=same New Car space=same New Size= same New Description = same	(Same, same, current price*1.10, same, same, same, same, same) same)	Success	Success	Pass
Testing condition 2 edit house Edit Test Case 26 Select house "ABC3100223" 2-bedroom house New Address= same address	(Same, same, current price*1.11, same,	Fail	Fail	Pass

New Type= same type New Price= current price * 1.10 New Bedrooms=2 New Bathrooms=same New Car space=same New Size= same New Description = same	same, same, same, same)			
Testing condition 2 edit house Edit Test Case 27 Select house "ABC3100224" 3-bedroom house New Address= same address New Type= same type New Price= current price * 1.20 New Bedrooms=2 New Bathrooms=same New Car space=same New Size= same New Description = same	(Same, same, current price*1.20, same, same, same, same, same)	Success	Success	Pass
Testing condition 2 edit house Edit Test Case 28 Select house "ABC3100224" 3-bedroom house	(Same, same, current price*1.21,	Fail	Fail	Pass

New Address= same address New Type= same type New Price= current price * 1.21 New Bedrooms=2 New Bathrooms=same New Car space=same New Size= same New Description = same	same, same, same, same, same)			
Testing condition 3 edit house Test Case 29 Select house "ABC3100217" 5-bedroom house New Address= "123 Collins St" New Type= same New Price=same New Bedrooms=same New Bathrooms=same New Car space=same New Size=same New Description = same	("123 Collins St" same, same, same, same, same, same, same) 	Fail	Fail	Pass
Testing condition 3 edit house Test Case 30 Select house "ABC3100216"	("123 Collins St" same, same, same,	True	True	Pass

3-bedroom Townhouse New Address= "123 Collins St" New Type= same New Price=same New Bedrooms=same New Bathrooms=same New Car space=same New Size=same New Description = same	same, same, same, same)			
Testing condition 3 edit house Test Case 31 Select house "ABC3100216" 3-bedroom Townhouse New Address= same New Type= same New Price=same New Bedrooms=same New Bathrooms=same New Car space=same New Size= current size*1.04 New Description = same	(same, same, same, same, same, current size*1.04, same)	False	False	Pass

<p>Testing condition 3 edit house</p> <p>Test Case 32</p> <p>Select house "ABC3100216"</p> <p>3-bedroom Townhouse</p> <p>New Address= same</p> <p>New Type= same</p> <p>New Price=same</p> <p>New Bedrooms=same</p> <p>New Bathrooms=same</p> <p>New Car space=same</p> <p>New Size= current size*1.11</p> <p>New Description = same</p>	<p>(same</p> <p>same,</p> <p>same,</p> <p>same,</p> <p>same,</p> <p>same,</p> <p>current size*1.11,</p> <p>same)</p>	False	False	Pass
<p>Testing condition 3 edit house</p> <p>Test Case 33</p> <p>Select house "ABC3100216"</p> <p>3-bedroom Townhouse</p> <p>New Address= same</p> <p>New Type= same</p> <p>New Price=same</p> <p>New Bedrooms=same</p> <p>New Bathrooms=same</p> <p>New Car space=same</p> <p>New Size= current size*1.05</p> <p>New Description = same</p>	<p>(same</p> <p>same,</p> <p>same,</p> <p>same,</p> <p>same,</p> <p>same,</p> <p>current size*1.05,</p> <p>same)</p>	True	True	Pass

User Stories

Template: As a <user-role> I want <goal> so that <benefit>

User Story 1

As an administrator, I want proper password security, so that to prevent unauthorised house updates with my username

Acceptance Criteria:

- System asks for password for logging in as administrator
- 3 failed attempts of password and username account is locked
- Log of updates are recorded with username and dates
- Passwords are encrypted in the system

User Story 2

As a Manager, I want to see sales over a range of dates, so that I can assess how the business is performing.

Acceptance Criteria:

- The System produces sales reports over weekly basis
- The System produce sales reports over monthly basis
- The System produces sales reports over Quarterly basis
- The System produces sales reports over yearly basis
- The reports provide sufficient detail

User Story 3

As a Homeowner customer, I want my home advertisement to be professional so that I can optimise the amount of money I receive.

Acceptance Criteria

- The System allows for up to 20 high quality images
- The System uses proper text sizes, fonts and borders
- The System allows highlight of all important selling points about the house

User Story 4

As a Searching customer, I want search results displaying multiple items so that I can best choice which home is best suitable for my criteria

Acceptance Criteria

- Search results meets all criteria specified by customer
- Search provides multiple sorting criteria eg price, number of bedrooms, number of garages, size etc
- Search results provides high quality thumb nail images of property so that customer can quickly scan through all search results

User Story 5

As a developer, I want the system to be well documented so that I can look up documents when I need to update another developer's code

Acceptance Criteria

- The System provides Class Diagrams
- The system provides Sequence Diagrams,
- The System provides Use Case Diagrams
- The code is well commented
- The code is object orientated

