Mobile Platform Development

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Git: https://github.com/DeRuss404/Russell\_Daniel\_MobileDev

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# Test cases

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Desc | Input | Expected | Actual | Figure |
| Initial Load of Reading Listing | Reading successfully fetched and displayed correctly | Open application | Reading should be loaded successfully | As Expected | Fig1 |
| Sort by Deepest | Sorts all readings by highest depth to lowest depth | Click radio button deepest | Reading are sorted by depth in descending order | As Expected | Fig7 |
| Sort by shollowest | Sorts all readings by lowest depths to highest depth | Click radio button shallowest | Reading are sorted by depth in ascending order | As Expected | Fig8 |
| Sort by Magnitude | Sorts all readings by highest magnitude to lowest magnitude | Click radio button magnitude | Reading are sorted by magnitude in descending order | As Expected | Fig9 |
| Sort by East | Sorts all readings by east | Select east from direction dropbox | Readings are sorted by lat and long to the east | As Expected | Fig10 |
| Sort by West | Sorts all readings by west | Select west from direction dropbox | Readings are sorted by lat and long to the west | As Expected | Fig11 |
| Sort by South | Sorts all reading by south | Select south from direction dropbox | Readings are sorted by lat and long to the south | As Expected | Fig12 |
| Sort by North | Sorts alls readings by north | Select north from direction dropbox | Readings are sorted by lat and long to the north | As Expected | Fig13 |
| Search by Date | Searches readings by date | Click start date  Select march 8th  Click ok | Reading for that specific date are listed | As Expected | Fig14 |
| Search between dates | Searches readings between dates | Click end date  Select march 31st  Click ok | A set of readings should be listed between the start date to the end date | As Expected | Fig15 |
| Recursive fetch loop of readings | Check if recursive fetch is executing.  (Method prints upon finish) | View run console in android studio | System.out.print should appear in run console of android studio  Saying ‘Result renewed’ | As Expected | Fig16 |
| Recursive fetch loop killed on activity switch | Check if recursive fetch is killed.  (Method prints upon finish) | View run console in android studio | System.out.print should appear in run console of android studio  Saying ‘Recursive Fetch Killed.’ | As Expected | Fig17 |
| Sort by direction by a select date | Sorts of readings by direction on a select date | Select a date with multiple earthquakes on one day  15th February  Click direction dropbox and select north east south west | Readings should sort correctly within date contraints | As Expected | Fig18 |
| Sort by magnitude on a select date | Sorts reading by magnitude on a select date | Select a date with multiple earthquakes on one day  14th February  Click radio button magnitude | Readings should sort correctly within date contraints | As Expected | Fig19 |
| Sort by direction by between dates | Sorts reading by direction between dates | Select two dates that have multiple earthquakes.  1st – 31st march  Select a direction from drobox. | Readings should sort correctly within date contraints | As Expected | Fig20 |
| Sort by magnitude between dates | Sort by readings by magnitude between dates | Select two dates that have multiple earthquakes.  1st – 31st march  Click radio button magnitude | Readings should sort correctly within date contraints | As Expected | Fig21 |
| Clear date/reset button | Check clear and reset | Click clear.  Click reset. | Listview is reset | As Expected | Fig1 |
| googlemaps | Check googlemaps | Click maps from bottom navbar | Googlemaps has successfully loaded with all reading markers | As Expected | Fig3 |
| Select reading | Check reading detailed view | Click reading entry | Selected reading matches the reading selected from the listview | As Expected | Fig6 |
| Select reading from sort | Select reading post sort | Click a radio button sort and click a reading entry | Selected reading matches the reading selected from the listview | As Expected | N/a |
| Select reading from date | Select reading post date | Click start date and set to 8th march  Click reading entry | Selected reading matches the reading selected from the listview | As Expected | N/a |
| Landscape map | Google maps on landscape view | Rotate phone/emulator | Map view is displayed without top action bar | As Expected | Fig4 |
| Landscape listing | Listing on landscape view | Rotate phone/emulator | Listing view is displayed without top action bar | As Expected | Fig2 |
| Landscape detailed view | Detailed view of reading on landscape | Rotate phone/emulator | Detailed view is dispayed without top action bar | As Expected | Fig5 |

# Figures

sort by magnitude (Fig9)

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| Image: |

sort by shallowest (fig8)

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| Image: |

sort by deepest (fig7)

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| Image: |

sort by east (fig10)

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| Image: |

sort by south (fig11)

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| --- |
| Image: |

sort by west (fig12)

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| --- |
| Image: |

sort by north (fig13)

|  |
| --- |
| Image: |

search by date (fig14)

|  |
| --- |
| Image: |

search between dates (fig15)

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| --- |
| Image: |

Listing View Landscape (Fig2)

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| Image: |

Map View Landscape (fig4)

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| Image: |

Detailed view Landscape (Fig5)

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| Image: |

Detailed View Portrait (Fig6)

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| Image: |

Map View Portrait (fig3)

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| Image: |

Listing View Portrait (Fig1)

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| Image: |

## Recursive loop (fig16)

|  |
| --- |
| Image:  Text  Description automatically generated |

## Recursive loop killed (fig17)

|  |
| --- |
| Image:  Text  Description automatically generated |

## Search by Date, sort direction (fig18)

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| --- |
| Image:  A screenshot of a cell phone  Description automatically generated with medium confidence |

## Search by Date, sort magnitude (fig19)

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| --- |
| Image:  A screenshot of a cell phone  Description automatically generated with medium confidence |

## Search between dates, sort direction (fig20)

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| --- |
| Image:  A picture containing text, monitor, screenshot, black  Description automatically generated |

## Search between dates, sort magnitude (fig21)

|  |
| --- |
| Image:  A screenshot of a cell phone  Description automatically generated with medium confidence |