| Notes:(Record key insights from readings and discussions.) |
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| Week-7  Thursday: -  ErrorValueRecognizer: <https://github.com/jawaharsd/ErrorTermRogniserFullCode.git>  **Differences between two FSM diagrams**   |  |  |  |  | | --- | --- | --- | --- | | criteria | Measured Value FSM | Error Value FSM | justification | | Acceptance for string starting with “0” | no | yes | The error term FSM will accept the strings that are starting with “0”. | | Transitions in case 0 | 2 transitions | 3 transitions | The error term has an extra transition state to state 8 if the input entered is “0”. | | More precised value | no | yes | The error term FSM shows more precise value because of the range of the error term. | | No of states | 8 | 10 | Number of states are more because of the precession of the Error value FSM.. | | paths | 6 | 8 | Number of paths to reach final state in error term is more because it is more precise. | | State 3 | One transition | Two transitions | In error value FSM at state 3 there are two transitions. | | State 2 | Two transitions | One transition | In measured value the two transitions are one is 0-9 and other is E,e. where as in error value it is one transition E,e | | State 4 | Two transitions | One transition | In error term there is a state 9 which transits to state 9 |   **Similarities between two FSM diagrams.**   |  |  |  |  | | --- | --- | --- | --- | | criteria | Measured Value FSM | Error Value FSM | justification | | Number of final states | 4 | 4 | There are equal number of final states in both the FSM’s. | | State 5 | The state 5 has two valid transitions. | The state 5 has two valid transitions | Both of the FSM’s at state 5 have two valid transitions. | | State 6 | One valid transition | One valid transition | Both in measure value fsm and error value fsm state 6 has only one valid transition i.e to state 7 | | State 7 | Final state and one valid transition | Final state and one valid transition | Both in measure value fsm and error value fsm state 7 is a final state and has only one valid transition i.e again to state 7 |   **Test cases for MeasuredValueRecognizer:**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | s.no | Test case | Check item | description | Steps to execute | Input/Test data | Expected result | result | comment | | 1 | Tc-001 | Positive integer | Verify the result for positive integer. | 1.enter any positive integer.  2.check for the executed result. | 1234 | Recognize | yes | It must recognize the positive integers. | | 2 | TC-002 | Negative integer | Verify the result for negative integer | 1.enter any negative integer.  2.check for the executed result. | -1234 | Recognize | pass | This fsm will not accept negative integers. | | 3 | TC-003 | Testing for entering “+” and “-“in middle of number. | Verifit the result for entering the “+” and “-“symbols in the middle of the input. | 1.Enter a “+” and “-“symbol in the middle of the input.  2.check for the | 123-98, 123+98 | Does not recognize | pass | It should not recognize “+” or “- “symbols in the input. | | 4 | TC-004 | Special characters | Verify the output for entering of special character in the input, | 1.enter a special character in the input.  2.check for the error. | Special s characters like!, @,#,$,^,&.. | Does not recognize | pass | It should not recognize special characters in the input. | | 5 | TC-005 | Decimal point number | Verify the output for the decimal point numbers. | 1.enter a decimal point number.  2,check for the result. | 799.998, 0.9987. | recognize | pass | I must recognize the decimal point number. | | 6 | TC-006 | Entering alphabets | Verify the output for entering the alphabets | 1.enter a alphabets.  2.check for the result. | Jawahar | Does not recognize. | pass | I must not recognize the alphabets entered. |   **Test cases for ErrorTermRecognizer:**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | s.no | Test case | Check item | description | Steps to execute | Input/Test data | Expected result | result | comment | | 1 | TC-001 | Error term with one significant digit | Verify the error term for one significant digit. | 1.enter a error value with one significant.  2.check for the output. | 0.0001,0.0009 | recognize | pass | I must recognize the error term with one significant dogit. | | 2 | TC-002 | Error term with more than one significant digit. | Verify the output for more than one significant digit. | 1.enter a error value with more than one significant.  2.check for the output. | 0.0089, 1.00076 | Does not recognize | pass | I should not recognize the error term with more than one significant digits. | | 3 | TC-003 | Negative number | Verify the output for the negative number | 1.enter a negative number.  2.chek for the output. | -0.009 | recognize | fail | I will not recognize the neative inputs. | | 4 | TC-0004 | Special characters | Verify the output for the special characters. | 1.enter a special character.  2.chek for the output | 0.001@ | Does not recognize | pass | It will not recognize the special characters. | |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | |

| Deliverable Status | | | | |
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| Deliverables | What did you plan to accomplish | What did you actually accomplish | Size | Effort |
| Double calculator FSM | Work on the user interface of Double calculator to add the FSM cases.  Conduct team meetings to know the progress of the project and clear the doubts. | Working on user interface of Double calculator to update it with FSM’s according to the requirements.  Discussion was conducted in the team regarding the progress of the task and the doubts. | 40% | 0.5 hour |