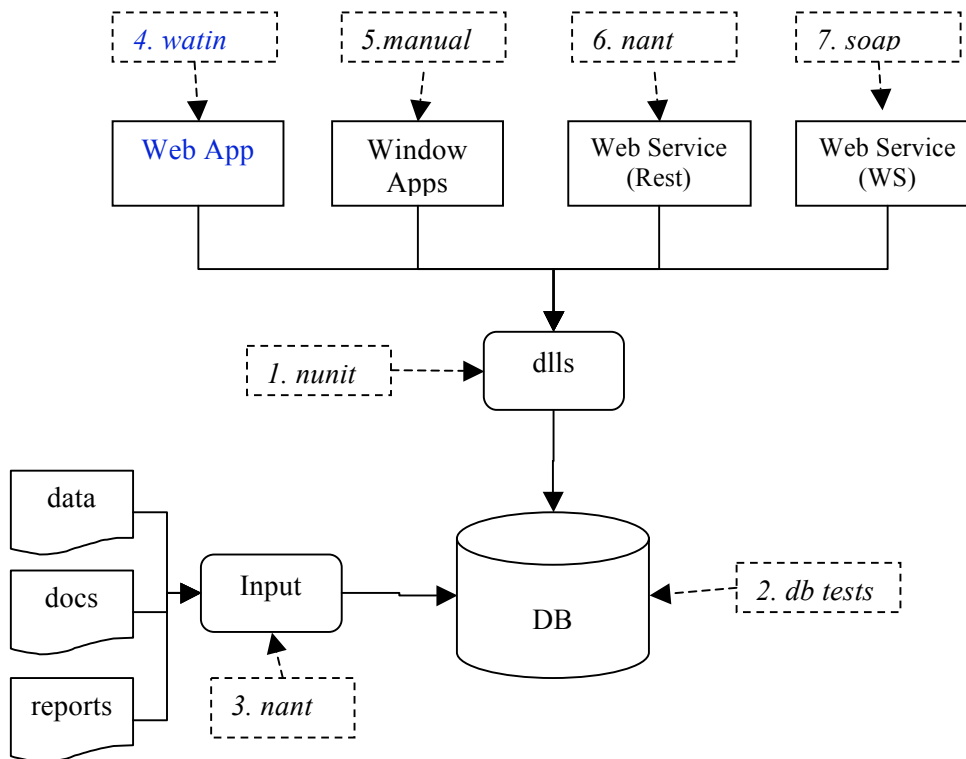


**Synopsis:** Automate testing of an internet application that provides access to a database of documents. The application allows searches on a variety of information (e.g.: name, date, address, contents). Date ranges and other information may be pinned so that it applies to new searches.



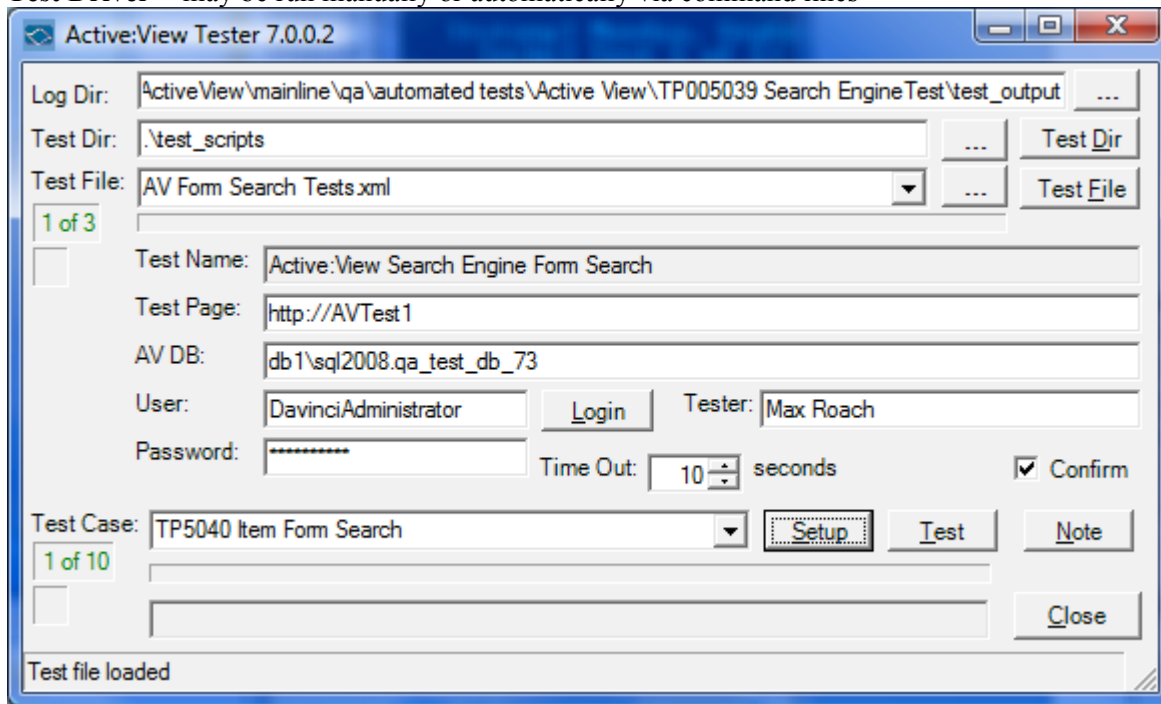
### Summary of Automated Test Program

- automated and manual modes
- tests are defined by xml script files
- tracks search times and fails tests that take too long
- validates results by parsing the data in the web page
- logs results to a file to verify against a baseline
- logs results to a database for comparison against other test runs
- creates error conditions and validates that proper error messages are generated
- runs on multiple platforms, e.g. different versions sql server, browser, adobe, ...

### Test Frequency

- during development to insure new changes have not broken existing functionality
  - this provides developers with feedback while they are working on features rather than waiting until regression testing when they have moved onto other projects.
- during regression testing to validate software before release.
  - used in conjunction with manual tests.

**Test Driver** - may be run manually or automatically via command lines



**Test Script**

```
<?xml version="1.0"?>
<TestSuite TestName="Active:View Search Engine Form Search"
  Username="User1" Password="user1%!"
  WatinTimeOut="10" MaxSeconds="20" >

  <!-- Items Form Search Tests ----->
  <TestCase Name="TP5040 Item Form Search" Type="Items" ExpectedCount="8">
    <Set Field="^. *item_ amounti. *$" Value="100" />
    <Set Field="^. *item_ serial. *$" Value="100 to 300" />
    <Set Field="^. *item_ sequence. *$" Value="1000000 to 2000000" />
  </TestCase>
```

**Test Results to File**

Test Suite: Active:View Search Engine Form Search  
 Test: TP5040 Item Form Search, pass, Received: 8, Expected: 8  
 Doc,Sel,Bank #,Date,ABA #,Account #,Serial #,Amount,Sequence #,Tran Code,D/C,Transit Type,Run #,Pocket,Returned,Exception,Input Type Code,MICR Onus Area,MICR Aux Onus Area,  
 1,0,1,07/24/2006,074913661,55555,157,\$100.00,1000023,172,D,O,1,1,No, ,O,57861/172,0157,  
 1,0,1,07/24/2006,074913661,55555,210,\$100.00,1000026,172,D,O,1,1,No, ,O,57861/172,0210,  
 ...

**Test Results to Database**

Web site	Test Suite	Test Case	Status	Exp Cnt	Act Cnt	Start Time	Stop Time	Results
http://AVtest1	AV Item Searches	2360-2	0	6	-1	2009-07-24 11:28:35	2009-07-24 11:28:35	Object reference not set ...
http://AVtest1	AV Search Engine	5060-1	1	10	10	2009-07-31 12:06:57	2009-07-31 12:06:58	Received: 10, Expected: 10