

## 工具结构:

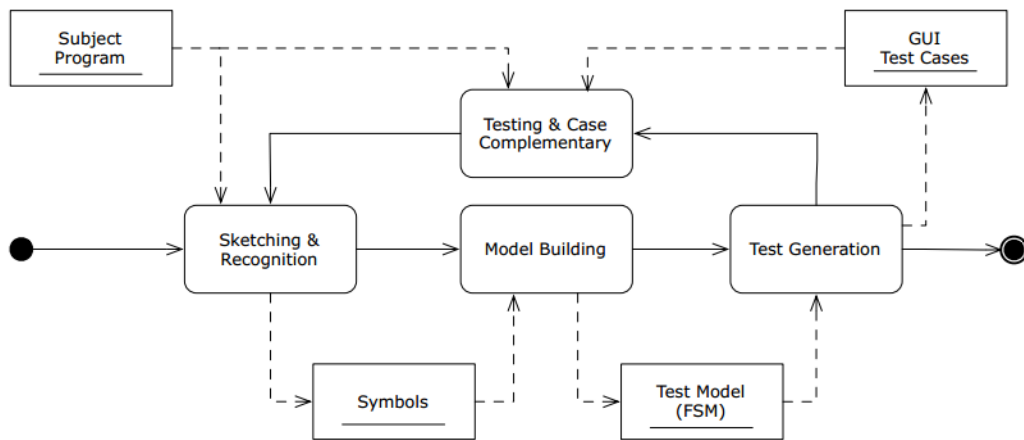


Figure 2: The Structure of Our Approach.

## 模型定义:

<b>Model</b>				<b>TType</b>	
state_list : List<State>				atomic : TAction	
edge_list : List<Edge>				joint : TConstraint	
test_behavior : String					
test_type : TType					
<b>State</b>	<b>Edge</b>	<b>TAction</b>	<b>TConstraint</b>		
state_code : string	start_state : List<TestState>	click	forall		
state_image : string	end_state : List<TestState>	long_click	rec_forall		
test_widget: string		drag	exist		
widget_name : string		time, etc.	and, or, not, etc.		
test_action : TAction					

## 模型实例:

```

END--GENERATEATOMICTModel, model_#01_states. 3
===== Model Information =====
State Set:
#State-Info# s0:1.png,492.3299|274.87253,NULL,CLICK
#State-Info# s1:4.png,492.3299|274.87253,NULL,CLICK
#State-Info# s2:3.png,233.99867|356.8093#65.61746|190.79019#204.57 <
208|522.87646,NULL,DRAG
#State-Info# s3:5.png,,cleared,UNIDENTIFIED
Edge Set:
#Edge-Info# <s0-s1-s2-> ---> <s3->
Test Behavior: Test Sequence
Test Type: ATOMIC
=====
Model Building Done!

```



## 模型指导测试脚本生成实例：

PID	TID	Application	Tag	Text	
3.802	29916	29916	com.example.gui	System.out	Current Test-Edge: #Edge-Info# <s0-s1-s2-> ---> <s3->
3.802	29916	29916	com.example.gui	System.out	ts.test_widget = 233.99867 356.8093#121.8177 309.45575
3.806	29916	29916	com.example.gui	System.out	drag-number: 4: 124.534195 337.18347
3.806	29916	29916	com.example.gui	System.out	Current Test-Edge: #Edge-Info# <s0-s1-s2-> ---> <s3->
3.807	29916	29916	com.example.gui	System.out	ts.test_widget = 233.99867 356.8093#124.534195 337.18347
3.810	29916	29916	com.example.gui	System.out	#####
3.810	29916	29916	com.example.gui	System.out	package com.bn.box2d.sndls.test;
3.810	29916	29916	com.example.gui	System.out	import com.bn.box2d.sndls.MyBox2dActivity;
3.810	29916	29916	com.example.gui	System.out	import com.robotium.solo.Solo;
3.810	29916	29916	com.example.gui	System.out	import android.annotation.SuppressLint;
3.810	29916	29916	com.example.gui	System.out	import android.test.ActivityInstrumentationTestCase2;
3.810	29916	29916	com.example.gui	System.out	public class APPAngryBirdTest0 extends ActivityInstrumentationTest
					Case2<MyBox2dActivity>
					{
3.810	29916	29916	com.example.gui	System.out	private Solo solo;
3.810	29916	29916	com.example.gui	System.out	@SuppressWarnings("NewApi")
3.810	29916	29916	com.example.gui	System.out	public APPAngryBirdTest0(){
3.810	29916	29916	com.example.gui	System.out	super(MyBox2dActivity.class);
3.810	29916	29916	com.example.gui	System.out	}
3.810	29916	29916	com.example.gui	System.out	@Override
3.810	29916	29916	com.example.gui	System.out	public void setUp() throws Exception {
3.810	29916	29916	com.example.gui	System.out	solo = new Solo(getInstrumentation(), getActivity());
3.810	29916	29916	com.example.gui	System.out	}
3.810	29916	29916	com.example.gui	System.out	@Override
3.810	29916	29916	com.example.gui	System.out	public void tearDown() throws Exception {
3.810	29916	29916	com.example.gui	System.out	solo.finishOpenedActivities();
3.810	29916	29916	com.example.gui	System.out	}
3.810	29916	29916	com.example.gui	System.out	/*----- Test Core Function -----*/
3.810	29916	29916	com.example.gui	System.out	public void testOnClick()
3.810	29916	29916	com.example.gui	System.out	{
3.810	29916	29916	com.example.gui	System.out	// Click-TestAction-In-TestState
3.810	29916	29916	com.example.gui	System.out	solo.clickOnScreen((float)492.3299, (float)274.87253);
3.810	29916	29916	com.example.gui	System.out	// Click-TestAction-In-TestState
3.810	29916	29916	com.example.gui	System.out	solo.clickOnScreen((float)492.3299, (float)274.87253);
3.810	29916	29916	com.example.gui	System.out	// Drag-TestAction-In-TestState
3.810	29916	29916	com.example.gui	System.out	solo.drag((float)233.99867, (float)73.881905, (float)356.8093, (fl
					oat)434.76852, 5);
3.811	29916	29916	com.example.gui	System.out	solo.sleep(10000);
3.811	29916	29916	com.example.gui	System.out	// ScreenShot and Judgment