#### ChatGPT Automation Execution Results

Complexity	Coverage	
<ul><li>Input: 26 Questions</li><li>Context: 14 Questions</li><li>Total: 40 Questions</li></ul>	<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
Bugs	QA Metrics	
8 Bugs detected	QA Metrics	Weight
	Domain Knowledge	35%
	Keyword-Based Similarity	35%
	Language-Based Similarity	30%
	<ul><li>Highest: 98.13%</li><li>Lowest: 24.14%</li><li>Average: 84.51%</li></ul>	,

Conventional Testing		Automated Testing	
Complexity		Complexity	
<ul> <li>Equivalence Part Questions</li> <li>Decision Table:</li> <li>Boundary Value:</li> <li>Scenario: 3 Question</li> <li>Total: 37 Question</li> </ul>	12 Questions 6 Questions stions	<ul> <li>Input: 26 Questions</li> <li>Context: 14 Questions</li> <li>Total: 40 Questions</li> </ul>	
Coverage		Coverage	
<ul> <li>Equivalence Partition Coverage</li> <li>Decision Table Coverage</li> <li>Boundary Value Coverage</li> <li>Scenario Coverage</li> </ul>		<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
QA Met	rics	QA Metrics	
QA Metrics	Weight	QA Metrics	Weight
Domain Knowledge	80%	Domain Knowledge Keyword-Based Similarity	35%
Language-Based Similarity	Language-Based Similarity 20%		35% 30%
Bugs	Bugs Bugs		5
• 7 bugs detected		8 bugs detected	

### Gemini AI Automation Execution Results

Complexity	Coverage	
<ul><li>Input: 26 Questions</li><li>Context: 14 Questions</li><li>Total: 40 Questions</li></ul>	<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
Bugs	QA Metrics	
• 9 bugs detected	QA Metrics	Weight
	Domain Knowledge	35%
	Keyword-Based Similarity	35%
	Language-Based Similarity	30%
	<ul><li>Highest: 89.76%</li><li>Lowest: 16.85%</li><li>Average: 70.31%</li></ul>	

Conventiona	Testing	Automated Testing	
Complexity		Complexity	
<ul> <li>Equivalence Part Questions</li> <li>Decision Table:</li> <li>Boundary Value:</li> <li>Scenario: 3 Question</li> <li>Total: 37 Question</li> </ul>	12 Questions 6 Questions tions	<ul> <li>Input: 26 Questions</li> <li>Context: 14 Questions</li> <li>Total: 40 Questions</li> </ul>	
Coverage		Coverage	
<ul> <li>Decision Table Coverage</li> <li>Equivalence Partition Coverage</li> <li>Boundary Value Coverage</li> <li>Scenario Coverage</li> </ul>		<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
QA Met	QA Metrics QA Me		trics
QA Metrics	Weight	QA Metrics	Weight
Domain Knowledge	80%	Domain Knowledge	35%
Language-Based Similarity 20%		Keyword-Based Similarity Language-Based Similarity	35% 30%
Bugs		Bugs	
• 11 bugs detected		• 9 bugs detected	

# Perplexity AI Automation Execution Results

Complexity	Coverage	
<ul><li>Input: 26 Questions</li><li>Context: 14 Questions</li><li>Total: 40 Questions</li></ul>	<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
Bugs	QA Metrics	
• 16 Bugs detected	QA Metrics	Weight
	Domain Knowledge	35%
	Keyword-Based Similarity	35%
	Language-Based Similarity	30%
	<ul><li>Highest: 67.5%</li><li>Lowest: 40%</li><li>Average: 63.44%</li></ul>	

Conventiona	l Testing	Automated Testing	
Complexity		Complexity	
<ul> <li>Equivalence Part Questions</li> <li>Decision Table:</li> <li>Boundary Value:</li> <li>Scenario: 3 Question</li> <li>Total: 37 Question</li> </ul>	12 Questions 6 Questions stions	<ul> <li>Input: 26 Questions</li> <li>Context: 14 Questions</li> <li>Total: 40 Questions</li> </ul>	
Covera	ge	Coverage	
<ul> <li>Decision Table Coverage</li> <li>Equivalence Partition Coverage</li> <li>Boundary Value Coverage</li> <li>Scenario Coverage</li> </ul>		<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
QA Met	rics	QA Metrics	
QA Metrics	Weight	QA Metrics	Weight
Domain Knowledge	80%	Domain Knowledge	35%
Language-Based Similarity	20%	Keyword-Based Similarity Language-Based Similarity	35% 30%
Bugs	\$	Bugs	
• 3 Bugs detected		• 16 Bugs detected	

#### Kindroid Automation Execution Results

Complexity	Coverage	
<ul><li>Input: 26 Questions</li><li>Context: 14 Questions</li><li>Total: 40 Questions</li></ul>	<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
Bugs	QA Metrics	
• 13 Bugs detected	QA Metrics	Weight
	Domain Knowledge	35%
	Keyword-Based Similarity	35%
	Language-Based Similarity	30%
	<ul><li>Highest: 79%</li><li>Lowest: 2%</li><li>Average: 37%</li></ul>	

Conventional Testing		Automated Testing	
Complexity		Complexity	
<ul> <li>Equivalence Part Questions</li> <li>Decision Table:</li> <li>Boundary Value:</li> <li>Scenario: 3 Question</li> <li>Total: 37 Question</li> </ul>	12 Questions 6 Questions stions	<ul><li>Context: 14 Questions</li><li>Total: 40 Questions</li></ul>	
Coverage		Coverage	
<ul> <li>Decision Table Coverage</li> <li>Equivalence Partition Coverage</li> <li>Boundary Value Coverage</li> <li>Scenario Coverage</li> </ul>		<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
QA Metrics		QA Metri	ics
QA Metrics	Weight	QA Metrics W	/eight
Domain Knowledge	80%	Domain Knowledge	35%
Language-Based Similarity	20%	Keyword-Based Similarity 35 Language-Based Similarity 30	
Bugs		Bugs	
• 14 bugs detected		• 13 Bugs detected	

#### Character.ai Automation Execution Results

Complexity	Coverage	
<ul><li>Input: 26 Questions</li><li>Context: 14 Questions</li><li>Total: 40 Questions</li></ul>	<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
Bugs	QA Metrics	
• 32 Bugs detected	QA Metrics	Weight
	Domain Knowledge	35%
	Keyword-Based Similarity	35%
	Language-Based Similarity	30%
	<ul><li>Highest: 72.12%</li><li>Lowest: 11.95%</li><li>Average: 64.41%</li></ul>	

Conventiona	entional Testing Automated Testing		Testing	
Complexity		Complexity		
<ul> <li>Equivalence Partition: 16     Questions</li> <li>Decision Table: 12 Questions</li> <li>Boundary Value: 6 Questions</li> <li>Scenario: 3 Questions</li> <li>Total: 37 Questions</li> </ul>		<ul> <li>Input: 26 Questions</li> <li>Context: 14 Questions</li> <li>Total: 40 Questions</li> </ul>		
Coverage		Covera	Coverage	
<ul> <li>Decision Table Coverage</li> <li>Equivalence Partition Coverage</li> <li>Boundary Value Coverage</li> <li>Scenario Coverage</li> </ul>		<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>		
QA Met	rics	QA Metrics		
QA Metrics	Weight	QA Metrics	Weight	
Domain Knowledge	80%	Domain Knowledge	35%	
Language-Based Similarity	20%	Keyword-Based Similarity Language-Based Similarity	35% 30%	
Bugs		S		
• 14 Bugs detected		• 32 Bugs Detected		

## **Total Chatbot Testing Results**

Conventional Testing		Automated Testing	
Complexity		Complexity	
<ul> <li>Equivalence Partition: 16     Questions</li> <li>Decision Table: 12 Questions</li> <li>Boundary Value: 6 Questions</li> <li>Scenario: 3 Questions</li> <li>Total: 37 Questions</li> </ul>		<ul> <li>Input: 26 Questions</li> <li>Context: 14 Questions</li> <li>Total: 40 Questions</li> </ul>	
Coverage		Covera	ige
<ul> <li>Decision Table Coverage</li> <li>Equivalence Partition Coverage</li> <li>Boundary Value Coverage</li> <li>Scenario Coverage</li> </ul>		<ul> <li>Category Partition Coverage</li> <li>Input Coverage</li> <li>Context Coverage</li> <li>Output Coverage</li> </ul>	
QA Metrics QA		QA Met	trics
QA Metrics	Weight	QA Metrics	Weight
Domain Knowledge	80%	Domain Knowledge	35%
Language-Based Similarity	20%	Keyword-Based Similarity	35%
	I		30%
Total Questions		Total Que	stions
• 185 Questions		• 200 Questions	
Bugs Bugs		5	
• 49 Bugs detected		• 78 Bugs detected	