Anti Pattern

Team 5 Pattern Panda 02/07/2023

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User Stakeholders and Environment

Users:

- College professor may be familiar with regex or not
- High school teachers may be familiar with regex or not

Environment:

Users will be using the app on web browser in either research or classroom environment.

Use Scenario Persona

Name: Dr. X

Age: 35

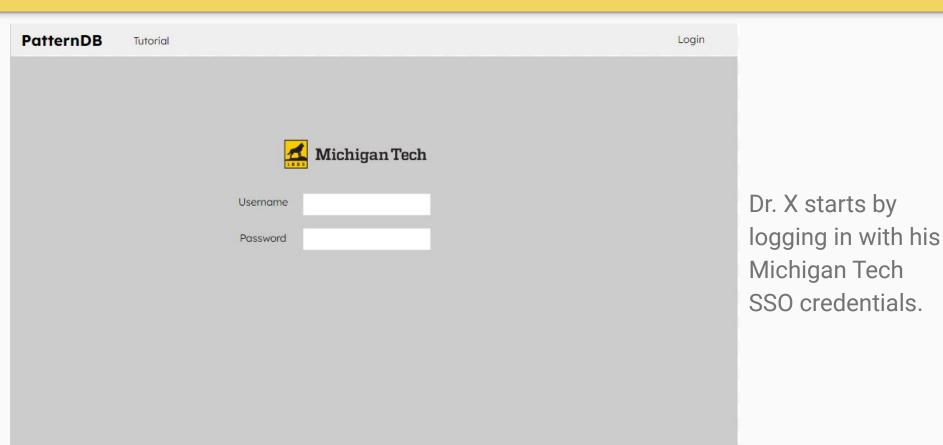
Residence: Michigan Tech (Houghton, MI)

Job: Adjunct professor in College of Computing

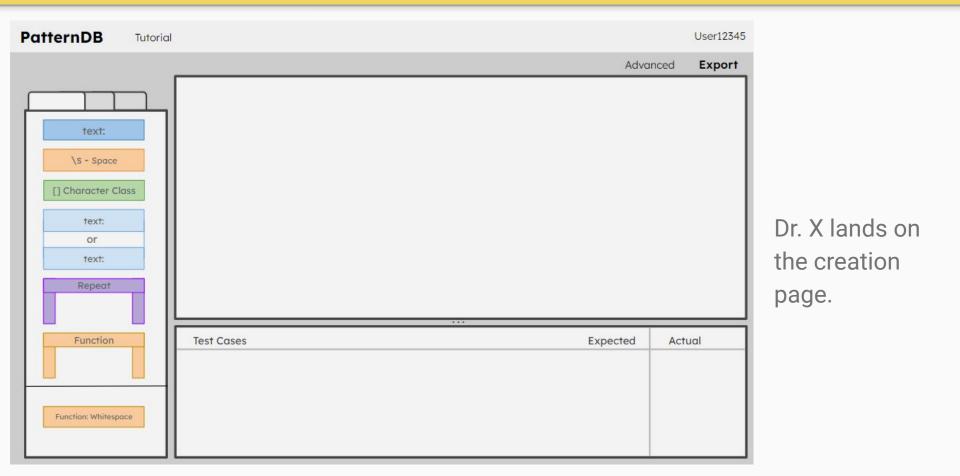
Goal: Using the app to create antipatterns

Nominal Use Scenario

Use Scenario Step One: Logging In



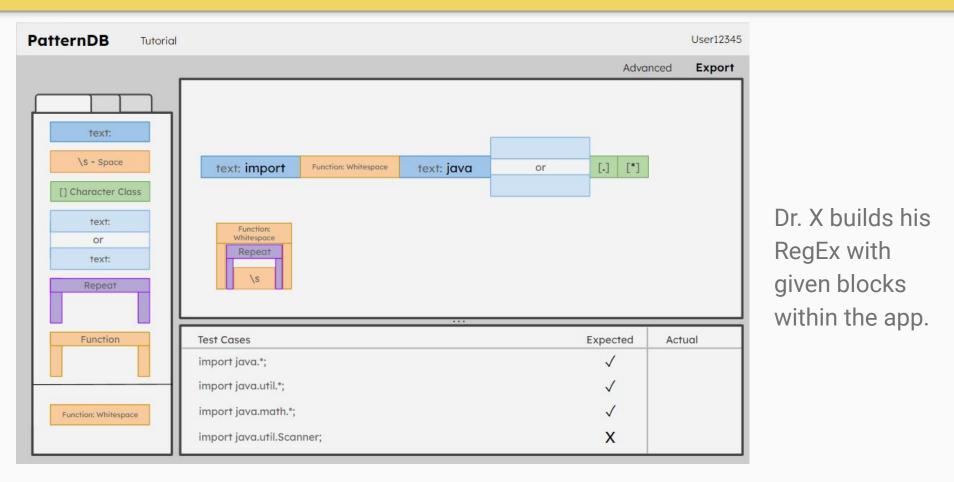
Use Scenario Step Two: Regex Creation Page



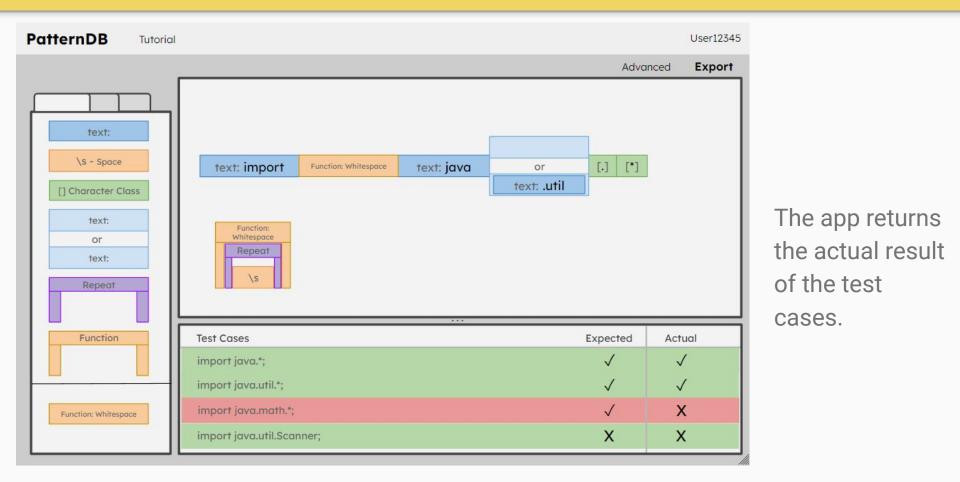
Use Scenario Step Three: Creating Test Cases

PatternDB Tutoria	I		User12345	
		Advance	ed Export	
text: \s - Space [] Character Class text: or text: Repeat				Dr. X enters positive and negative test cases.
Function Function: Whitespace	Test Cases import java.*; import java.util.*; import java.math.*; import java.util.Scanner;	Expected √ √ √ X	Actual	Cases.

Use Scenario Step Four: Creating RegEx With Blocks



Use Scenario Step Five: Test Cases Display Success or Failure

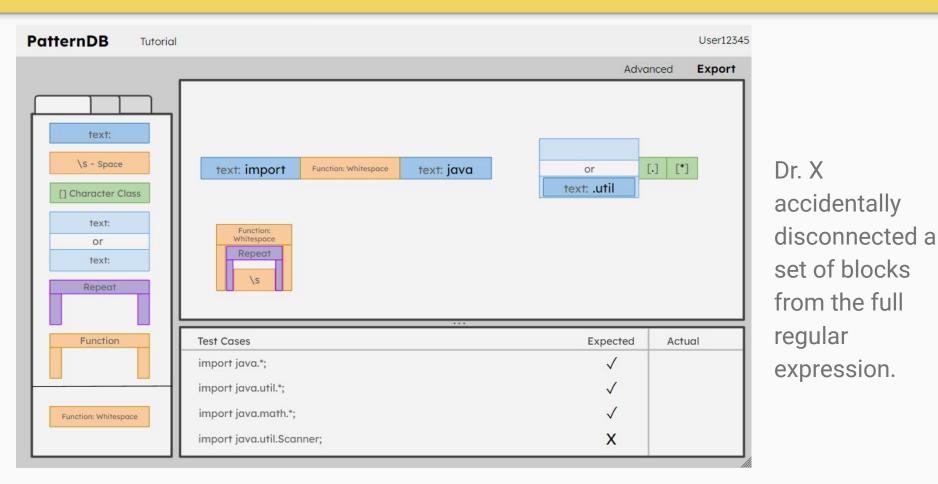


Error Handling Use Scenario

Error Handling Use Scenario

Dr. X accidentally disconnected a set of blocks from the full regular expression. Because the app is made to construct one regular expression, it does not match either set of blocks against the test cases. To alert them of the issue, the regex creation canvas border is colored red. This creates visual feedback that does not impose during the normal construction process.

Error Handling Use Scenario: Invalid RegEx Format



Error Handling Use Scenario: Error Alert

PatternDB Tutorial				User12345	
			Advance	ed Export	
text: \S - Space [] Character Class text: or text: Repeat	Function: Whitespace Function: Whitespace Whitespace Repeat \s \s	text: java	or [.] text: .util	[*]	The re creation borde colore
Function	Test Cases		Eveneted	Actual	visual
Punction	import java.*;		Expected	Actual	violai
	import java.util.*;		\checkmark		
Function: Whitespace	import java.math.*; import java.util.Scanner;		x		

The regex creation canvas border is colored red for visual feedback.

Usability Goals and Concerns

Usability Challenges:

- Ensure the tutorial is well-presented and helpful under limited time
- Maintain clear labeling on blocks

Concerns:

- App may not support all regex flavors or programming languages
- Blocks may overflow the screen horizontally