

# RegEx in UiPath

## ➤ What is RegEx ?

Regular Expression (REGEX) is a specific search pattern that can be used to easily match, locate and manage text.

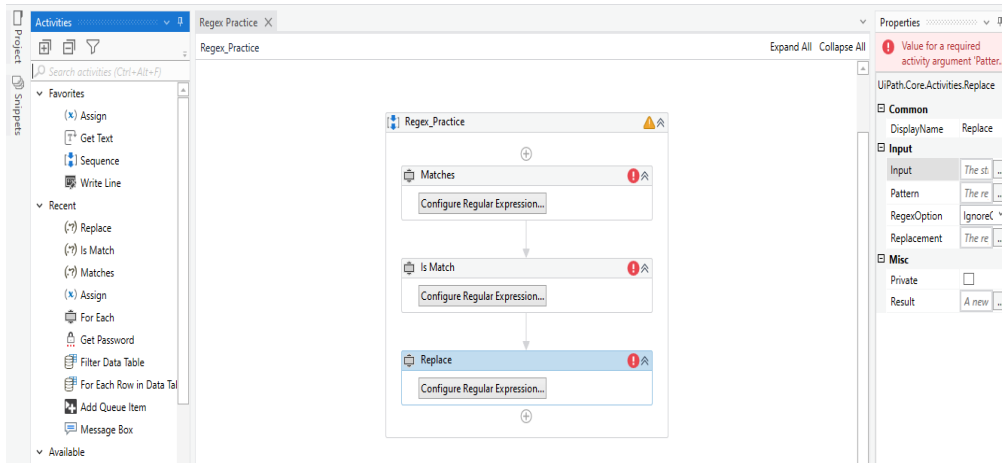
UiPath Studio contains a RegEx builder that simplifies the creation of regular expressions.

## ➤ Typical Uses of RegEx :

- Input Validations
- String Parsing
- Data Scraping
- String Manipulations

## ➤ Activities/Methods in UiPath Used for RegEx :

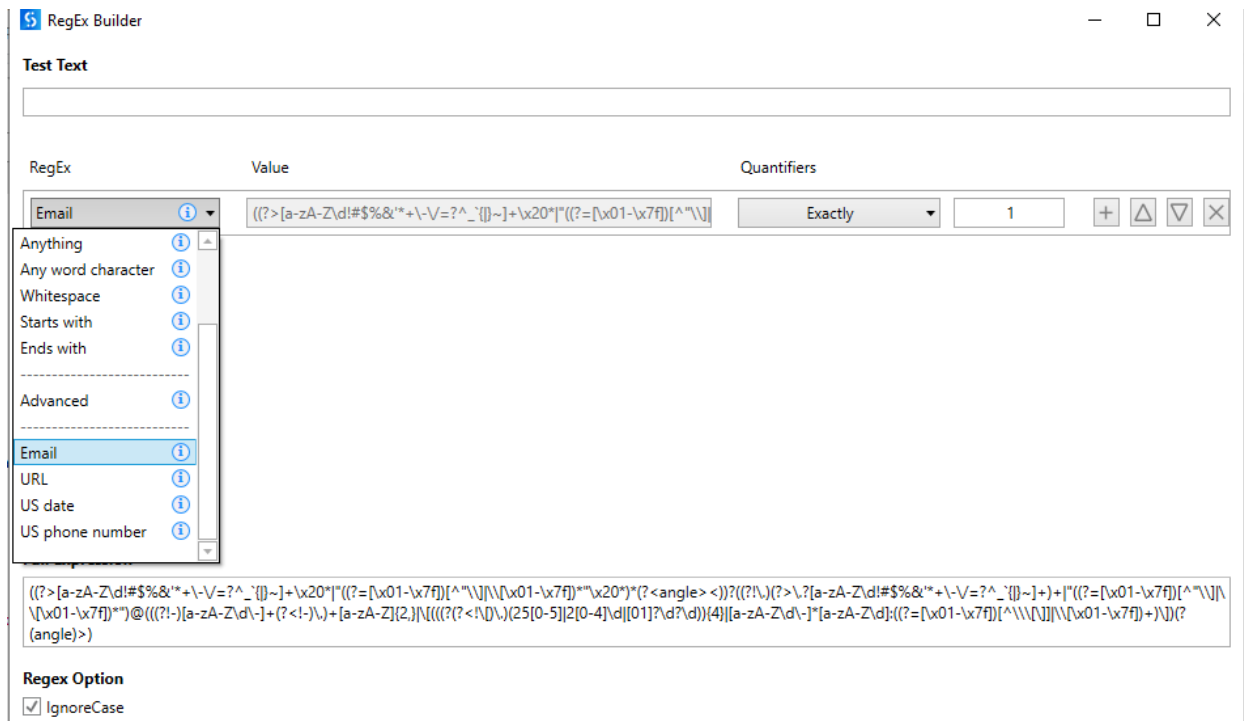
- Matches
- IsMatch
- Replace



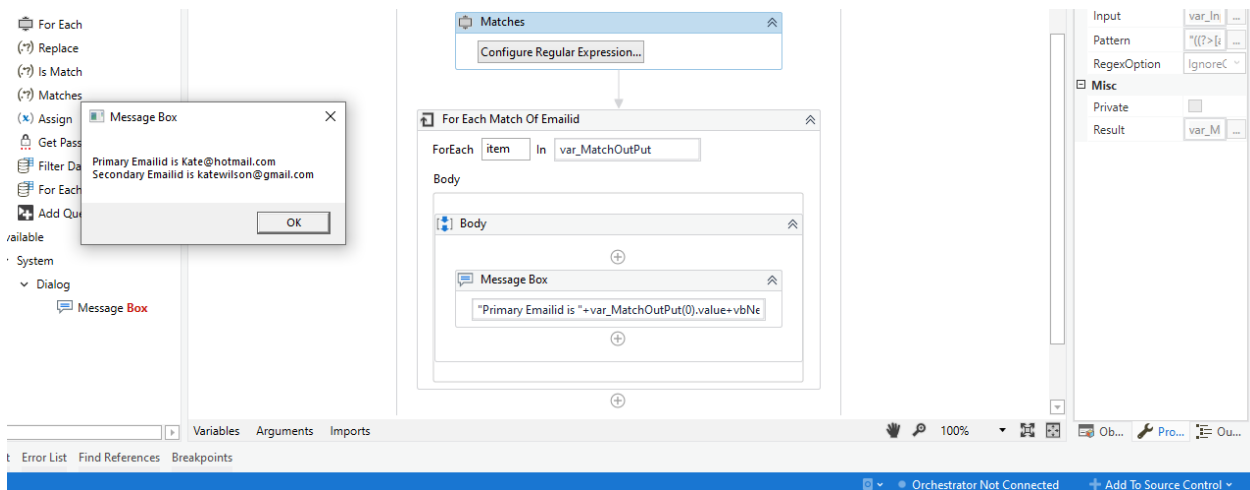
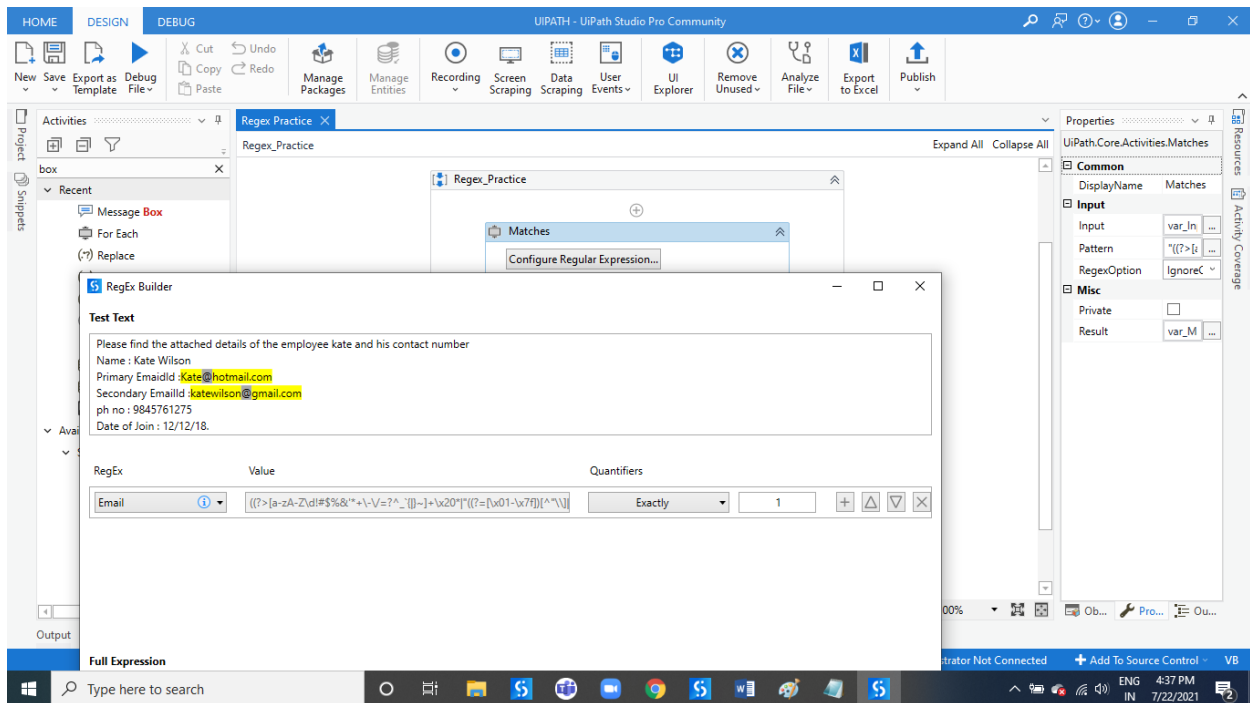
These three activities will be having RegEx Builder Wizard where we can select

Predefined Regular expressions for EMAILID , PHONE NUMBER, URL....etc. and also we can write/try our own regular expressions in [www.regexr.com](http://www.regexr.com) .

Here in this example by selecting Email as my regex pattern we can get all email id s in the given input text ,followed by screen shots.



Matches Activity : To Get the EmailIds from the given input text by using Matches Activity



- Regular expressions will be having mainly
  - Regular Expression Flags
  - Special characters
  - Quantifiers
  
- Regular Expression Flags : Regular Expressions have six flags mainly used for searching and we can use them in any order and are included them as part of the

regular expression.

Any regular expression enclosed with two forward slashes (/ pattern / flags) along with flags.

Main expression Flags are

Flag g : For Global Search.

Flag i : Case – Insensitive Search it will ignore the case sensitive.

Flag m : Multi line Search : gives multi line search.

Flag s : Allows . (dot) to match new line characters.

Flag u : Unicode : Treats a pattern as sequence of Unicode code points.

Flag y : Perform a sticky search that matches starting at the current position in the starting position.

➤ Special Characters :

there are 12 characters with special meanings:

the backslash `\`, the caret `^`, the dollar sign `$`, the period or dot `.`, the vertical bar or pipe symbol `|`, the question mark `?`, the asterisk or star `*`, the plus sign `+`, the opening parenthesis `(`, the closing parenthesis `)`, the opening square bracket `[`, and the opening curly brace `{`. These special characters are often called “metacharacters”.

➤ Quantifiers : Quantifiers specify how many instances of a character, group, or character class must be present in the input for a match to be found.

List of quantifiers are `+`, `*`, `?`, and `{n}`.

