

FORMAL LANGUAGES AND AUTOMATA THEORY

TERM PROJECT

We have designed a website about Formal Languages And Automatic Theory in this project. This site is designed to explain a subject matter. First of all, let's explain what is regular expression.

Regular Expression: Short for regular expression, a regex is a string of text that allows you to create patterns that help match, locate, and manage text. However, its only one of the many places you can find regular expressions. Regular expressions can also be used from the command line and in text editors to find text within a file.

What can you do on this site ?

You can write your own regular expressions on this site, learn the rules and find some useful regular expression patterns.

How to check the RegEx ?

The site has been developed with the JavaScript programming language. RegEx is detected with the following function and then the background color is painted with yellow color.

```
function checkRegEx() {
  var pat = document.getElementById("pattern").value;
  const exp = new RegExp(pat, 'g');
  const str = "<span class=found>$$</span>";
  out.innerHTML = area.value.replace(exp, str);
}
```

Clear the input,output and pattern contents.

You can test the pattern and see the input - output results with this function.