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Golang Course

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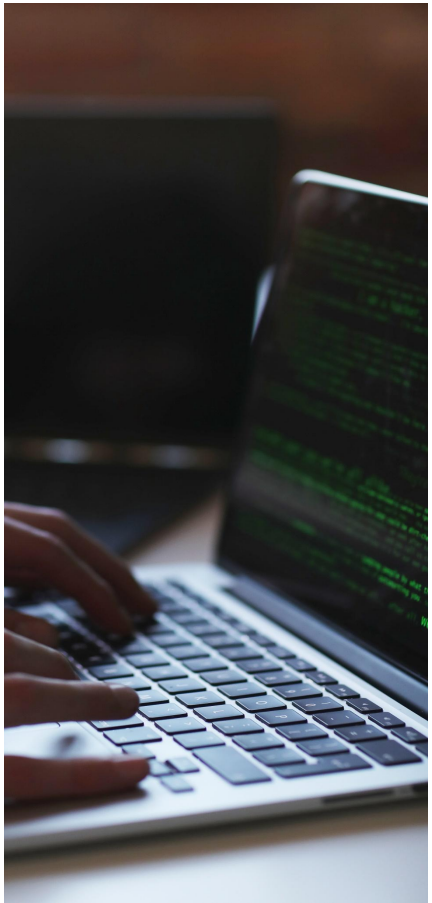

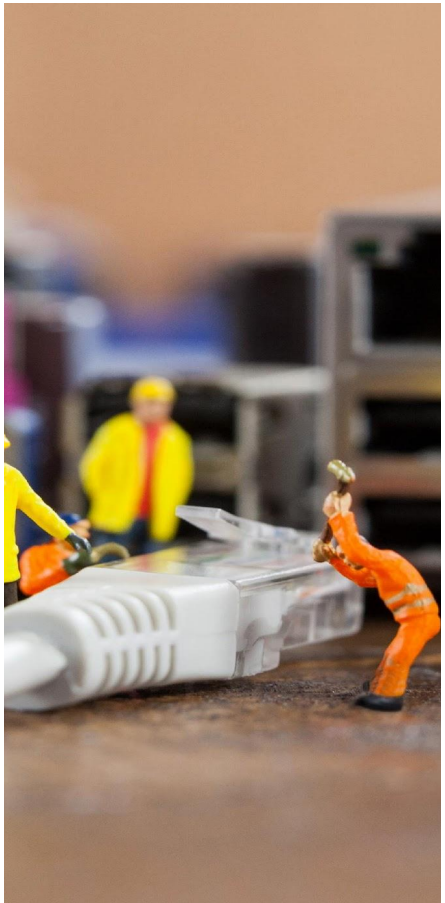

What to Learn?

Basic Golang

Learn the fundamentals of Golang.

Golang with GIN Framework

Learn how to use GIN Framework and implements Go on Study Case.

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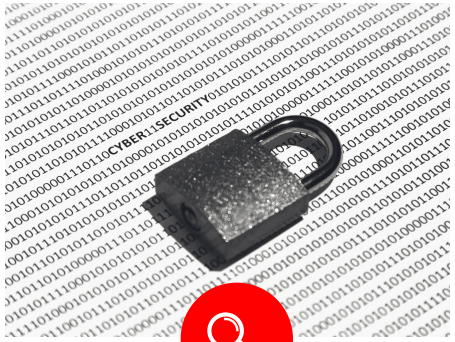
Why Go?

PROBLEM 1

Nowadays, startup and big companies use Go as their programming language.

PROBLEM 2

Low of resources compared to the other programming language.



PROBLEM 3

Less developer understand Go, means higher salaries for Go developers. Based on https://insights.stackoverflow.com/survey/2020, Go developers rated as top 3 highest salaries worldwide. The salaries worth up to $74.000.

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How We Learn?

Basic Programming Fundamentals on Course-Net LMS

Completing the basic course such as Algorithm, Network, and Database

1

2

Basic Go

Learning the fundamentals of Go language.

Using GIN Framework and Study Case

Implement GIN Framework by study case.

3

4

Personal Project

Work on personal project to test your skill in Go. This will be used as your portfolio and will be graded for the skill certificate.

Exam

Theory Exam to test your fundamentals skill and measure your understanding in Go.

5

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Basic Golang 1

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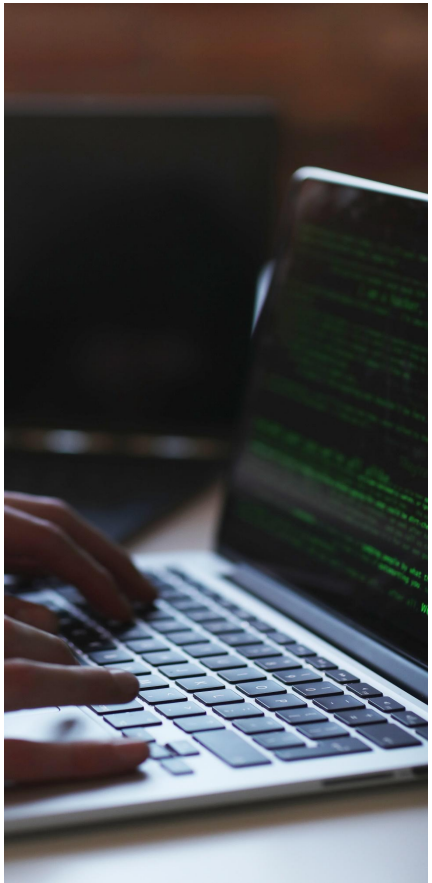

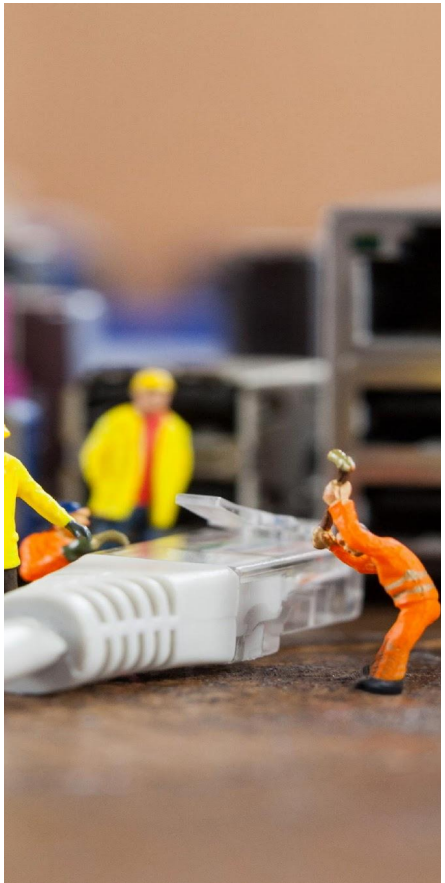

What to Learn Today?

Basic Golang

1. Installation
2. Hello World!
3. Fmt Library
4. Variables
5. Data Types
6. Constant
7. Arithmetic Operator
8. Logic Operator
9. AND vs OR

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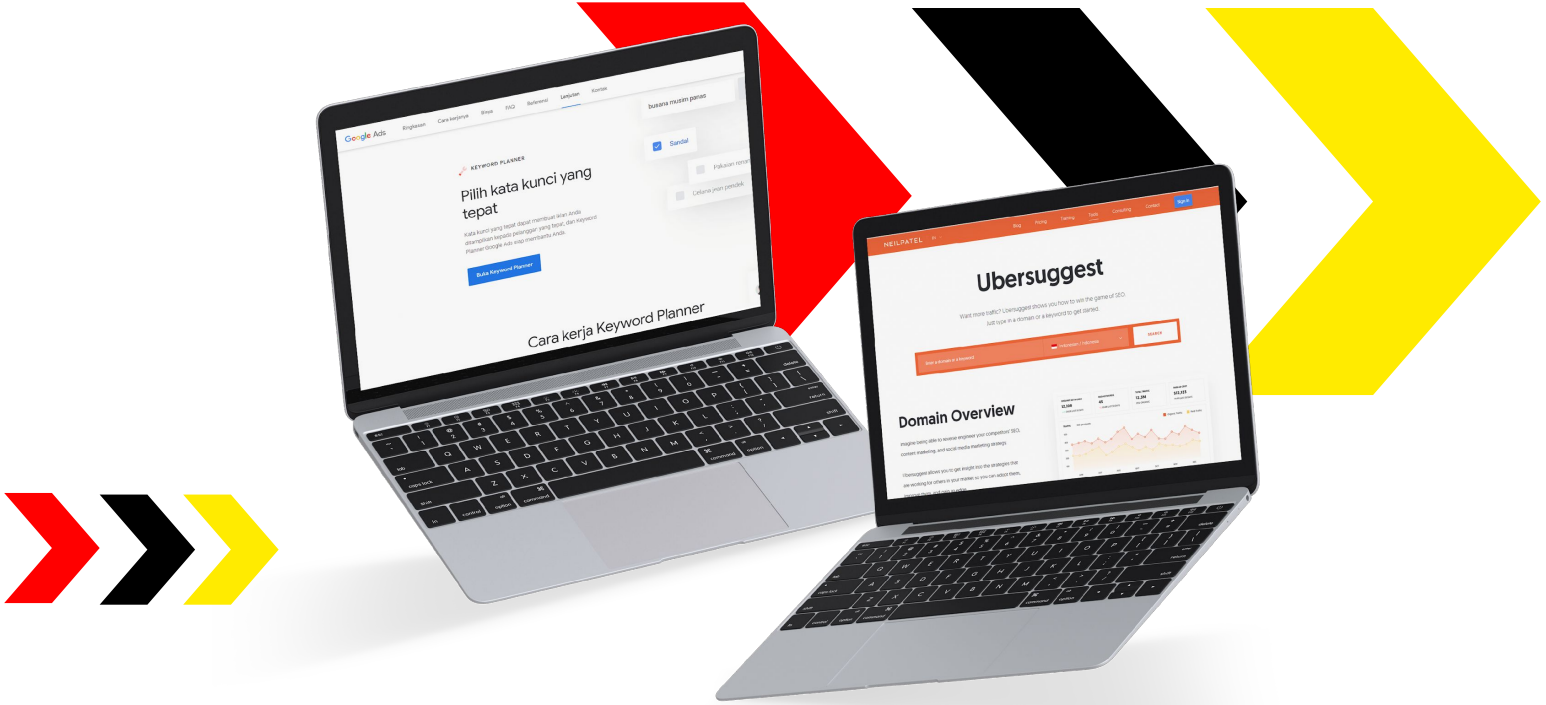

Go install: https://golang.org/doc/install#install

And you're ready to Go!

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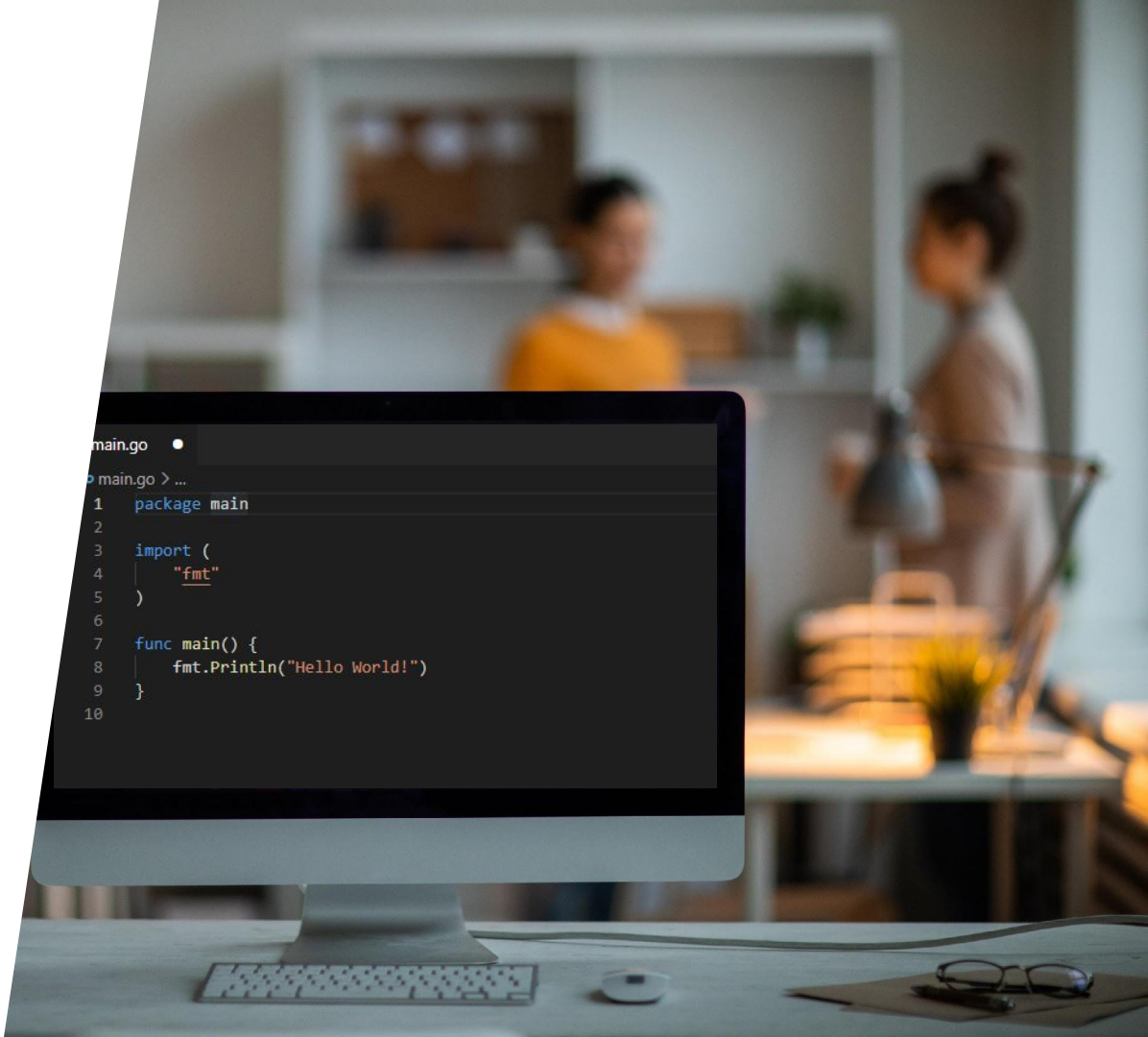
Hello World!



Fmt Library

Print

Printf

Println

Scanf

Variables

Variable Declaration with Data Types

```
var firstName string
```

Variable Declaration Without Data Types

```
firstName := “Course-Net”
```

Data Types

Data Types	Range
uint8	0 until 255
uint16	0 until 65535
uint32	0 until 4294967295
uint64	0 until 18446744073709551615
int8	-128 until 127
int16	-32768 until 32767
int32	-2147483648 until 2147483647
int64	-9223372036854775808 until 9223372036854775807
Bool	True / False
String	String

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Constant

```
package main

import "fmt"

func main() {
    const name string = "Course-N
et"

    fmt.Println("Hello", name, "!
")
}
```

Arithmetic Operator

Operator	Meaning
+	Substitution
-	Subtraction
*	Multiplier
/	Division
%	Modulus

Logic Operator

Operator	Meaning
==	Equal
!=	Not Equal
<	Less Than
<=	Less Than Equal
>	Greater Than
>=	Greater Than Equal

Logic Operator

Operator	Meaning
&&	And
||	Or
!	Negation

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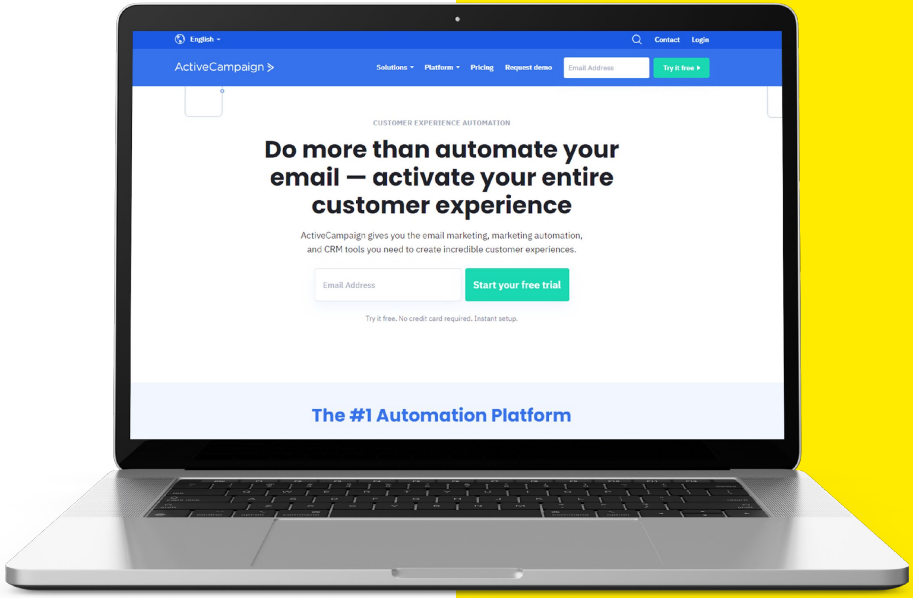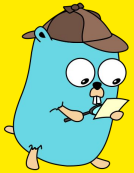
AND vs OR