# **Table of Contents**

Catatan Seekor: THE SERIES	1.1
LANGUAGE	
Catatan Seekor: JAVASCRIPT	2.1
Fundamental	2.1.1
Variables	2.1.1.1
Data Types	2.1.1.2
Type Conversions	2.1.1.3
Conditional	2.1.1.4
Function	2.1.1.5
Classes	2.1.1.6
Looping	2.1.1.7
Callback	2.1.1.8
Promise	2.1.1.9
Async/Await	2.1.1.10
RegExp	2.1.1.11
Date	2.1.1.12
Refferensi	2.1.2
Docs	2.1.2.1
Articles	2.1.2.2
Video	2.1.2.3
Stack Overflow	2.1.2.4
Forum	2.1.2.5
NPM	2.1.2.6
Course	2.1.2.7
Monitoring	2.1.3
Testing	2.1.4
Tools	2.1.5
Tricks	2.1.6
RegExp	2.1.6.1
Catatan Seekor: GOLANG	2.2
Fundamental	2.2.1
Variables	2.2.1.1
Data Types	2.2.1.2
Conditional	2.2.1.3

Looping	2.2.1.4
Refferensi	2.2.2
Article	2.2.2.1
Docs	2.2.2.2
Github	2.2.2.3
Stackoverflow	2.2.2.4
Tools	2.2.3
Tricks	2.2.4
Catatan Seekor: PYTHON	2.3
Django	2.3.1
Catatan Seekor: JAVA	2.4
Android	2.4.1
Catatan Seekor: PHP	2.5
LDAP	2.5.1
Catatan Seekor: RUBY	2.6
Catatan Seekor: SWIFT	2.7
	2.8
DATABASE	
Catatan Seekor: POSTGRESQL	3.1
Catatan Seekor: MySQL	3.2
Catatan Seekor: MongoDB	3.3
Refferensi	3.3.1
Messaging	
Catatan Seekor: RabbitMQ	4.1
DEVOPS	
Catatan Seekor: Docker	5.1
Catatan Seekor: DEVOPS	5.2
List Port	5.2.1
List Response Code HTTP	5.2.2
List Transaction Code	5.2.3
Catatan Seekor: AWS	5.3

### **VERSIONING**

Catatan Seekor: GIT	6.1
TOOL	
Catatan Seekor: TOOL	7.1
os	
Catatan Seekor: LINUX	8.1
Catatan Seekor: MACBOOK	8.2
	8.3
DESIGN	
Catatan Seekor: DESIGN	9.1
OTHER	
Catatan Seekor: SEO	10.1
Catatan Seekor: ALGORITHM	10.2
Catatan Seekor: KYUBI	10.3
Catatan Seekor: SOFTWARE	10.4

# **Catatan Seekor: THE SERIES**

# **Catatan Seekor: JAVASCRIPT**

# **Fundamental**

#### **Variables**

# VAR (Global)

```
var iniVariableGlobal = TYPE_DATA;
```

# LET (Local)

```
let iniVariableLocal = TYPE_DATA;
```

## CONST (Read Only)

```
const iniVariableReadOnly = TYPE_DATA;
```

### **Assignment Operator**

```
a = 1;  // a = 1;

a += 1;  // a = a + 1;

a -= 1;  // a = a - 1;

a *= 1;  // a = a * 1;

a /= 1;  // a = a / 1;

a %= 1;  // a = a % 1;
```

```
a = 1 + 1;  // 1 + 1 = 2

b = a + 1;  // (2) + 1 = 3

c = a = b = 3;  // c = 3, a = 3, b = 3

d = a += b /= c;  // ?
```

```
let a = 1; console.log(a++); // 1
let a = 1; console.log(a--); // 1

let a = 1; console.log(++a); // 2
let a = 1; console.log(--a); // 0
```

## **Data Types**

#### **Number**

### **String**

```
iniString = 'Type Data String';
iniString = "Type Data String";
iniString = `Type Data String`;

console.log(typeof iniString) // string

let hours = ('0' + 1).slice(-2);
let minutes = ('0' + 37).slice(-2);

console.log(`${hours}:${minutes} AM`); // '01:37 AM'
```

#### **Boolean**

```
iniBoolean = true;
iniBoolean = false;

console.log(typeof iniBoolean); // boolean
```

#### **Function**

```
iniFunction = function() {};
iniFunction = () => {};
```

```
console.log(typeof iniFunction); // function
console.log(iniFunction instanceof Function); // true
```

```
Array
  iniArray = [];
  console.log(typeof iniArray); // object
  console.log(iniArray instanceof Array); // true
  console.log(Array.isArray(iniArray)); // true
  let data = [ "a", "b", "c"];
  console.log(data[ 0] ) // 'a'
  {\color{red} \textbf{console.log(data[data.length - 1])} // \ \texttt{'c'}}
  let data = [0, 1, 2, 3, 4];
  console.log(
   data.indexOf( 2 )
  ); // 2
  console.log(
   data.indexOf( 10 )
  ); // -1
  let data = [0, 1, 2, 3, 4];
  console.log(
     data.includes( 2 )
  ); // true
  console.log(
      data.includes( 10 )
  ); // false
  let data = [0, 1, 2, 3, 4];
  console.log(
    data.filter((item, index) => {
      return item !== 0 && index !== (data.length - 1);
   })
  ); // [ 1, 2, 3 ]
  let data = Array.of( 0, 1, 2, 3, 4 );
  console.log( data ); // [ 0, 1, 2, 3, 4 ]
  let data = [];
  (new Array(5).fill()).forEach((item, index)=> {
    data.push(index)
  console.log( data ) // [ 0, 1, 2, 3, 4]
```

```
console.log(
  (new Array(5).fill('')).map((item, index)=> {
    return index;
  })
); // [ 0, 1, 2, 3, 4 ]
```

### **Object**

```
iniObject = {};
```

```
console.log(typeof iniObject); // object
console.log(iniObject instanceof Object); // true
```

```
let data = {
    a: "ini a",
    b: "ini b",
    c: "ini c",
}

console.log(data.a) // 'ini a'
    console.log(data['a']) // 'ini a'
    console.log(data); // { a: 'ini a', b: 'ini b', c: 'ini c' }

const { b, c } = data;
    console.log( b ); // 'ini b'
    console.log( c ); // 'ini c'

console.log(Object.keys(data)); // [ 'a', 'b', 'c' ]
    console.log(Object.values(data)); // [ 'ini a', 'ini b', 'ini c' ]
```

```
let dataBefore = {
    a: 'ini a',
    b: 'ini b',
    c: 'ini c',
}

let dataAfter = {
    ...dataBefore,
    ['a'] : 'ini a telah di update',
    ['c'] : dataBefore['c'] + ' telah di update juga',
    d : '5'
}

console.log({
    ...dataAfter,
    d : +dataAfter.d + 5
}); // { a: 'ini a telah di update', b: 'ini b', c: 'ini c telah di update juga'
```

```
let data = {
  name: ['Name is required.'],
  email: ['Email is required.'],
  password: ['Password is required.'],
};

for (const [key, value] of Object.entries(data)) {
  console.log(value[0]);
};

// Output:
// Name is required.
// Email is required.
// Password is required.
```

### Null

```
iniNull = null;
console.log(typeof iniNull); // object
```

### **Undefined**

```
iniUndefined = undefined;
console.log(typeof iniUndefined); // undefined
```

# **Type Conversions**

#### **To String**

```
let data = true; // boolean
let data = 0; // number

iniString = String( data );
iniString = data + '';
iniString = data.toString();

console.log( typeof iniString ); // string
```

#### To Number

```
let data = true; // boolean
let data = '0'; // string

iniNumber = Number( data );
iniNumber = +data;

console.log( typeof iniNumber ); // number
```

#### To Boolean

```
let data = '0'; // string
let data = 0; // number

iniBoolean = Boolean( data );
iniBoolean = !!+data;

console.log( typeof iniBoolean ); // boolean
```

#### **Conditional**

## **Comparison and Logical Operator**

```
const conditional = !false // true
let dataIsNotEmpty = '';
let dataIsNotEmpty = 0;
let dataIsNotEmpty = null;
let dataIsNotEmpty = undefined;
                                        // true
console.log(!dataIsNotEmpty);
console.log(!!dataIsNotEmpty);  // false
console.log(!!!dataIsNotEmpty);  // true
console.log(!!!!!!!!!dataIsNotEmpty); // ?
console.log(0 == 0);
                                        // true
                                        // true
console.log(0 == '0');
                                        // false
console.log(0 != '0');
console.log(true != 'true');
                                        // true
console.log(!(true != 'true'));
                                         // false
console.log(0 < -1);</pre>
                                         // false
                                         // true
console.log(-1 <= '-1');</pre>
console.log(0 > '-2');
                                        // true
console.log(-1 \ge -1);
                                        // true
console.log(true && !false);
                                         // true
                                         // true
console.log(true || false);
                                         // true
console.log(0 === 0);
console.log(0 === '0');
                                         // false
console.log(0 !== '0');
                                         // true
console.log(!!+'1337');
                                         // true
console.log(!+'satu');
                                         // true
```

#### The if Statement

```
const condition = true;
const isTrue = 'text true';

console.log((() => {
   if (condition) return isTrue;
})()); // 'text true'

console.log((() => {
   return (condition) && isTrue
})()); // 'text true'

console.log((() => {
   return (!condition) || isTrue
})()); // 'text true'
```

### The else Statement

```
const condition = true;
const isTrue = 'text true';
const isFalse = 'text false';

console.log((() => {
   if (condition) return isTrue;
   else return isFalse;
})()); // 'text true'

// Ternary Conditional Operator
console.log((() => {
   return condition ? isTrue : isFalse
})()); // 'text true'
```

#### The else if Statement

```
const condition = false;
const condition2 = true;
const isTrue = 'text true';
const isFalse = 'text false';
console.log((() => {
 if (condition) return isTrue;
 else if (condition2) return 'else if true';
 else return isFalse;
})()); // 'else if true'
// Ternary Conditional Operator
console.log((() => {
 return condition
 ? isTrue
 : condition2
   ? 'else if true'
   : isFalse
})()); // 'else if true'
```

#### The switch case Statement

```
const condition = 1;
const isTrue = 'text true';
const isFalse = 'text false';
console.log((() => {
 let output;
 switch (condition) {
   case 0:
     output = isFalse;
    break;
   case 1:
   case 2:
    output = 'With case 2'
    break;
   default:
     output = "default";
 return output;
})()); // 'With case 2'
```

## The try catch finally Statement

```
try {
   // tryCode - Block of code to try
}
catch(err) {
   // catchCode - Block of code to handle errors
}
finally {
   // finallyCode - Block of code to be executed regardless of the try / catch n
}
```

source https://www.w3schools.com/jsref/jsref\_try\_catch.asp

```
const isError = true;
let message = '';

try {
   if( isError ) throw 'throw from block try';
   message += 'from block try. ';
}
catch (e) {
   message += `from block catch, with message: "${e}". `;
}
finally {
   message += 'from block finally. ';
}
console.log(message); // from block catch, with message: "throw from block try'
```

#### **Function**

```
function introduction(name) {
 console.log(`Hai, my name is ${ name }.`);
};
introduction('Mahbub'); // 'Hai, my name is Mahbub.'
function introduction({ firstName, lastName }) {
 console.log(`Hai, my name is ${ firstName } ${ lastName }.`);
introduction({firstName: 'Mahbub', lastName: 'Zulkarnain'}); // 'Hai, my name :
function introduction({ name: { firstName, lastName }, hobby }) {
 console.log(`Hai, my name is ${ firstName } ${ lastName }. My favorite hobby
};
introduction(
    name: { firstName: 'Mahbub', lastName: 'Zulkarnain' },
   hobby: 'traveling'
); // 'Hai, my name is Mahbub Zulkarnain. My favorite hobby is traveling.'
function Person({ name: { firstName, lastName }, hobby }) {
 this.firstName = firstName;
 this.lastName = lastName;
 this.hobby = hobby;
}
Person.prototype.say = function () {
 console.log(`Hai, my name is ${ this.firstName } ${ this.lastName }. My favor
const person = new Person(
    name: { firstName: 'Mahbub', lastName: 'Zulkarnain' },
    hobby: 'traveling'
 },
);
person.say(); // 'Hai, my name is Mahbub Zulkarnain. My favorite hobby is trave
```

#### **Declaration**

```
// bisa di gunakan sebelum deklarasi function
console.log(iniFunctionDeclaration()); // 'tampil text ini'

// contoh : deklarasi "function declarations"
function iniFunctionDeclaration() {
  return "tampil text ini";
};

// bisa di gunakan sesudah deklarasi function
console.log(iniFunctionDeclaration()); // 'tampil text ini'
```

### **Expression**

```
// tidak bisa di gunakan sebelum deklarasi function
console.log(iniFunctionExpressions()); // RefferenceError: iniFunctionExpression
// contoh : deklarasi "function expressions"
var iniFunctionExpressions = function() {
   return "tampil text ini";
};

// OR

// contoh : deklarasi "function expressions"
var iniFunctionExpressions = () => {
   return "tampil text ini";
};

// bisa di gunakan sesudah deklarasi function
console.log(iniFunctionExpressions()); // 'tampil text ini'
```

# Async/Await

```
async function asyncFunction() {
  return 'ini function async';
};
asyncFunction().then(console.log); // 'ini function async'
```

```
async function asyncFunction() {
  return 'ini function async';
};

(async () => {
  try {
    console.log(await asyncFunction());
} catch (e) {
    console.log(e.message);
}
})(); // 'ini function async'
```

#### **Classes**

```
class Introduction {
  constructor(name) {
    console.log(`Hai, my name is ${name}.`);
  };
}
new Introduction('Mahbub'); // 'Hai, my name is Mahbub.'
```

```
class Person {
  constructor({name: {firstName, lastName}, hobby}) {
    this.firstName = firstName;
    this.lastName = lastName;
    this.hobby = hobby;
};

say() {
    console.log(`Hai, my name is ${this.firstName} ${this.lastName}. My favorit};
}

const person = new Person({
    name: { firstName: 'Mahbub', lastName: 'Zulkarnain' },
    hobby: 'traveling'
});

person.say(); // 'Hai, my name is Mahbub Zulkarnain. My favorite hobby is trave
```

```
class Person {
  static say({name: {firstName, lastName}, hobby}) {
    console.log(`Hai, my name is ${firstName} ${lastName}. My favorite hobby is
  };
}

Person.say({
  name: { firstName: 'Mahbub', lastName: 'Zulkarnain' },
  hobby: 'traveling'
}); // 'Hai, my name is Mahbub Zulkarnain. My favorite hobby is traveling.'
```

# Looping

## The for Statement

```
let input = ['t','','r','','u','','e','1','2'];

console.log((() => {
  let output = "";
  for (let i = 0; i < input.length; i++){
    if( input[i] === '') continue;
    if( output.length > 3) break;
    output += input[i];
  }
  return output
})()); // 'true'
```

#### The while Statement

```
let input = ['t','r','u','e'];

console.log((() => {
  let output = ""; let i = 0;
  while(i < input.length){
    output += input[i];
    i++;
  }
  return output
})()); // 'true'</pre>
```

#### The do while Statement

```
let input = ['t','r','u','e'];

console.log((() => {
   let output = ""; let i = 0;
   do {
      output += input[i];
      i++;
   } while(i < input.length)
   return output
})()); // 'true'</pre>
```

### **Callback**

```
function callFather(message) {
  console.log("Dad! " + message)
}

function callMother(message) {
  console.log("Mom! " + message)
}

function talk(...call) {
  call.forEach((fn) => {
    fn(`I'm hungry...`)
  })
}

talk(callFather, callMother);
/* output
Dad! I'm hungry...
Mom! I'm hungry...
*/
```

### **Promise**

```
const isError = true;
(new Promise(((resolve, reject) => {
 setTimeout(() => {
  if (!isError) {
    resolve('Fullfilled');
   } else {
     reject('Rejected');
   }
 }, 1000);
 console.log('Pending');
 .then((response) => {
  console.log(response); // Fullfilled
 })
  .catch((error) => {
  console.log(error); // Rejected
 .finally(() \Rightarrow {
  console.log('Settled');
 });
// Output:
// Pending
// Rejected
// Settled
```

# Async/Await

# RegExp

#### **Date**

```
let now = new Date();
console.log(now);
                                      // 1970-01-01T00:00:00.000Z
console.log(now.toISOString());
                                     // 1970-01-01T00:00:00.000Z
console.log(now.toUTCString());
                                      // Thu, 01 Jan 1970 00:00:00 GMT
console.log(now.toDateString());
                                      // Thu Jan 01 1970
console.log(now.toTimeString());
                                      // 07:00:00 GMT+0700 (Western Indonesia
console.log(now.toLocaleString());
                                     // 1/1/1970, 7:00:00 AM
console.log(now.toLocaleDateString()); // 1/1/1970
console.log(now.toLocaleTimeString()); // 7:00:00 AM
console.log(now.toJSON());
                                      // 1970-01-01T00:00:00.000Z
console.log(now.toString());
                                     // Thu Jan 01 1970 07:00:00 GMT+0700 ()
console.log(now.getTime());
                                      // 25200000
```

## Refferensi

### **Docs**

- Angular
- Apollo
- Certbot
- Expo
- Express JS
- GraphQL
- Native Base
- Ngrok
- PM2
- React JS
- React Native
- Redis

#### **Articles**

- 7 JavaScript Design Patterns Every developer should know
- About React
- Adding Alias to Create React Native App (CRNA) in 2 minutes
- · Advanced GraphQL Queries, Error Handling, Data Loader
- An Introduction To Storybook: Organize How You Build JS Components
- Angular 10 CRUD Application example with Web API
- Application State Management with React
- Authentication and Authorization in GraphQL (and how GraphQL-Modules can help)
- Best Practices for Serverless Development
- Build a Health Tracking App with React, GraphQL, and User Authentication
- Deploy Your React App on Github Pages
- · Event handler not working in Internet Explorer
- FLEXBOX FROGGY
- Google JavaScript Style Guide
- GraphQL Best Practices
- GraphQL Resolvers: Best Practices
- Handling Authentication with Nodejs
- How Facebook organizes their GraphQL code
- How npm handles the "scripts" field
- How To: Add Test Coverage to your Serverless Applications
- How to Build a Real-time Chat App With NodeJS, Socket.IO, and MongoDB
- How to build a PWA from scratch with HTML, CSS, and JavaScript
- · How to Debug a Node.js Application: Tips, Tricks and Tools
- How to implement useState with useReducer
- How to set up a GraphQL Server using Node.js, Express & MongoDB
- HOW TO UNIT TEST REACT APPLICATIONS WITH JEST AND ENZYME
- How to use DataLoaders in GraphQL
- How to Use Local Storage with JavaScript
- Install a local DynamoDB development database on your machine
- Installing Node.js with nvm to Linux & macOS & WSL
- JAMstack Apps Open-Source and built with Automation Tools
- JavaScript Web Application Security Guide
- JS illustrated: Promises
- Learn to Build Full-Stack Apps with Serverless and React on AWS
- Membuat Realtime Chart dengan Apache Kafka + nodeJS + socket.io
- Nodejs Application Security
- Node.js RESTful API with DynamoDB Local
- Optimizing GraphQL Queries with DataLoader
- Optimasi load Progressive Web Application (PWA) dengan React JS kurang dari 5 detik dalam koneksi slow 3G
- Organising Your React Application
- Promise.all with Async/Await
- React Internationalization with i18n

- React Parts
- · React Router v6 in Three Minutes
- Serverless Zone
- Solved by Flexbox
- Start testing your GraphQL Schema, Queries and, Mutations!
- Static vs Unit vs Integration vs E2E Testing for Frontend Apps
- Simple String.format() in javascript
- Testing React Components with Enzyme and Jest
- Testing a Queue Jobs (kue) in Node JS
- · Understanding Classes in JavaScript
- Understanding Prototypes and Inheritance in JavaScript
- Use console.log() like a pro

#### Github

- 30 Seconds of Code by 30-seconds
- 33 JS Concepts by Leonardo Maldonado
- Airbnb JavaScript Style Guide by Airbnb
- Clean Code Javascript by Ryan McDermott
- Google Cloud Node by googleapis
- · JavaScript Algorithms and Data Structures by Oleksii Trekhleb
- Math as Code by Jam3
- Modern JS Cheatsheet by Manuel Beaudru
- · Nginx Admin's Handbook by trimstray
- Project Based Learning by Tu V. Tran
- The Book of Secret Knowledge by trimstray
- Web Developer Shortcut by R. Kukuh
- You Dont Know JS by Kyle Simpson

#### Website

- · Automation Step by Step
- Free Code Camp
- Free For Dev
- Javascripting (List of Javascript Library)
- Regex Lib
- Sabe
- Serverless Stack
- Skptricks
- Tania Rascia
- The Modern JavaScript Tutorial
- The Power Of Serverless for Frontend Developers
- Vinta
- W3Schools

#### **Video**

### Youtube

- Dasar Pemrograman dengan Javascript by Web Programming UNPAS
- JavaScript Tutorials for Beginners by The Net Ninja
- Modern JavaScript Tutorial by The Net Ninja

#### Stack Overflow

- ES6, how can you export an imported module in a single line?
- Firebase REST auth when creating token with node.js admin sdk
- · How do I return the response from an asynchronous call?
- · How do JavaScript closures work?
- How to authenticate a firebase user from server without client side auth?
- How to better organize your React applications?
- How to change the back button label, react-navigation
- How to check if in-app purchase/subscription is valid? (Node.js)
- How do i pass eslint checking for this.props.navigation.navigate (reactnavigation)?
- Invalid 'reference' directive syntax
- Is React Native's LayoutAnimation supported on Android?
- · React/RCTBridgeDelegate.h' file not found
- React Best Practices
- · Set default node version with NVM
- TypeError: Cannot read property 'activities' of undefined in yoga-layoutprebuilt

#### **Testing**

- · How to use ESLint with Jest
- How do I run a single test using Jest?
- How do I test a single file using Jest?
- · How to use ESLint with Jest
- JavaScript Standard Style does not recognize Mocha
- · Jest clean up after all tests have run
- Option "setupTestFrameworkScriptFile" was replaced by configuration "setupFilesAfterEnv", which supports multiple paths
- · Run only ONE test with Jest
- Test setting text value with React and Enzyme

#### **Typescript**

- Error TS1110 Build: Type expected
- ESLint: Unable to resolve path to module
- What is the "as syntax" pointed out by tslint?

#### **DynamoDB**

- Append a new object to a JSON Array in DynamoDB using NodeJS
- · DynamoDB: SET list append not working using aws sdk
- Can't remove an element from a list using UpdateItem
- How do I update nested list data in dynamodb using document client
- remove a list element in dynamodb with the index being a value stored in a variable

#### **Promise**

• Placement of catch BEFORE and AFTER then

#### Sequelize

- Get total row count while paging
- How to concat columns in Sequelize with SQLite database
- Number of active connections and remaining connections

## **Forum**

# Telegram

• JavaScript Indonesia Channel

#### **NPM**

# Dependencies

- Apollo Boost
- Axios
- Bcrypt
- Cors
- D3 Interpolate
- Express Validator
- Firebase
- Form Data
- Internet Printing Protocol (IPP) for nodejs
- JSONWebToken (JWT)
- JSPDF
- Lodash
- Moment
- Mongoose
- Node Printer for Local Only
- Passport
- QRCode
- React Redux
- React Native Render HTML
- React Native QRCode
- React Navigation
- Redux
- Redux Thunk
- Sequelize

## DevDependencies

- Chai
- Chai HTTP
- Dotenv
- Mocha
- NYC

#### Course

• Hacktiv8 Indonesia

# **Monitoring**

DataDog

# **Testing**

- Acunetix
- Apium
- BlazeMeter
- Burp Suite
- K6
- Load Impact
- New Relic
- Security Headers
- Selenium
- Sn1per by 1N3
- Snyk
- Storybook
- Sqreen

## **Tools**

- HTML to JSX
- Bundle Phobia

### **Tricks**

```
// Get random item from array
 ((data) => {
  return data[Math.floor(Math.random() * data.length)]
 })(['1337', 'Random', 666, 'Mahbub', 10, 1993, 'Zulkarnain']);
 // Get random number with range
 ((\min, \max) \Rightarrow \{
  return Math.floor(Math.random() * (max - min + 1)) + min;
 })(1, 10);
 // Generate array of number with range
 ((\min, \max) => \{
  let data = [];
  for (let i = min; data.push(i++) < max;);</pre>
   return data;
 })(1, 10);
 \label{lem:condition} \ensuremath{\text{//}} \ensuremath{\text{ Generate random string with specified length}}
 ((length) => {
   let data = '';
   for (; data.length < length; data += Math.random().toString(36).substr(2));</pre>
   return data.substr(0, length);
 })(10);
4
 // Suffle an array of numbers
 ((data) => {
  return data.sort(() => Math.random() - 0.5);
 })([ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ]);
 // Count some char in string
 ((data) => ((data || '').match(/1/g) || []).length)('10101010')
```

### **Convert**

## RegExp

```
// validation email
const email = /(^[a-zA-Z][a-zA-Z0-9._]+[a-zA-Z0-9])@((\[[0-9]{1,3}\.[0-9]{1,3}\
console.log(email.test('mahbubzulkarnain@domain.com')); // true

// validation password
// Min 6 characters which contain at least one numeric digit, one uppercase let
const password = /^(?=.*\d)(?=.*[A-Z])(?=.*[a-z])(?=.*[^a-zA-Z0-9])(?!.*\s).{6,
console.log(password.test('Mahbub!23')); // true

// validation url
const url = /^(http:\/\/www\.| https:\/\/www\.| http:\/\/| https:\/\/)?[a-z0-9]+([
console.log(url.test('https://github.com/mahbubzulkarnain')); // true

// validation username
const username = /(^[a-zA-Z][a-zA-Z0-9._]+[a-zA-Z0-9]).{6,}$/g;
console.log(username.test('mahbubzulkarnain')); // true
```

## Catatan Seekor: GOLANG

## **Fundamental**

## **Variables**

#### **VAR**

```
var {variableName} {typedata}
var {variableName} {typedata} = {value}

var {variableName}, {variableName2} {typedata}
var {variableName}, {variableName2} {typedata} = {value}, {value2}
```

## **Data Types**

#### **Numeric**

### **String**

```
var iniString string = "Type Data String"
var iniString string = `Type Data String`
```

#### **Boolean**

```
var iniBool bool = true
```

## **Conditional**

### The if Statement

```
const conditional = true
const isTrue = "text true"

if conditional {
    fmt.Println(isTrue)
}

// Output: "text true"
```

# Looping

The for Statement

```
input := [...] string {"t","","r","","u","","e","1","2"}

var output string
for i := 0; i < len(input); i++ {
    if input[i] == "" {
        continue
    }
    if len(output) > 3 {
        break
    }
    output += input[i]
}

fmt.Println(output) // "true"
```

## Refferensi

### **Article**

- 5 Ways to Live Reloading Go Applications
- · Allocation efficiency in high-performance Go services
- Awesome Docker
- A Microservices Workflow with Golang and Gitlab CI
- · A web framework written in Golang
- An Example of Using NSQ From Go
- · API Resources for Go Developers
- Backend master class Series' Articles
- · Beating JSON performance with Protobuf
- BogoToBogo
- · Build app server send requests
- · Build Web Application with Golang
- · Building Docker Containers for Go Applications
- Dasar Pemrograman Golang
- Deploying a Go application on AWS EC2
- · Escape Variables with Printf
- Everything you need to know about Packages in Go
- Firebase: Introducing the Cloud Messaging batch APIs in the Admin SDK
- · Getting Started with Kafka in Golang
- · Getting Started with Serverless Go
- · Go standards and style guidelines
- Go tools and GitLab: How to do continuous integration like a boss
- Golang: Unit Test with Mocking Technique
- · Golang & SOAP Based Services
- Golang and Gitlab continuous integration
- Golang Bot
- Golang Code
- Golang CI
- Golang Programs
- Gomock unit testing made easy
- High Performance Go Workshop
- Hot Example
- How to use RegEx in GoLang
- Implementasi Kafka menggunakan Golang + Testing
- Install Golang on WSL
- · Lambdas with GoLang a technical guide
- Learn Go with Tests
- Level up your Go Presentations
- Membangun Realtime Canvas Drawing Dengan Go, Websocket dan P5.js
- Menggunakan MongoDB pada GOLANG
- gitlab-runner x509: certificate signed by unknown authority
- Practical Go: Real world advice for writing maintainable Go programs
- Protect Image File Using Encryption (Written in Go)
- Regular Expression to Check Indonesian MobilePhone Provider

- Response caching with Gin and Golang
- Security Best Practices: Symmetric Encryption with AES in Java and Android
- SEMAKIN BOTAK DAN KAYA DENGAN ISO-8583
- Setup Go Development Environment with VS Code and WSL on Windows
- Setup Windows 10 With WSL for Golang Development
- SOAP WSDL request in Go Language
- Solving the "does not support indexing" error in a Go program
- Testing with GoMock: A Tutorial
- Tutorial Edge
- Unit Test (SQL) in Golang
- Unit Test in Golang
- Writing Great Go Code

#### **Architecture**

- Clean Architecture using Golang by Elton Minetto
- The Clean Code Blog by Robert C. Martin ( Uncle Bob )
- Trying Clean Architecture on Golang by Iman Tumorang

## **Docs**

Golang

## Github

awesome-auth

### Stackoverflow

- Assigning null to JSON fields instead of empty strings
- cmd/go: cannot get anything from a private repository, x509: certificate signed by unknown authority on OS X
- Difference between some operators "|", "^", "&", "&". Golang
- Docker: go get from a private GitHub repo
- gometalinter / errcheck returns a warning on deferring a func which returns a variable
- How to convert int (int64) into uint16 in golang?
- How to pass arguments to router handlers in Golang using Gin web framework?
- How to set GOPRIVATE environment variable
- How to use Go with a private GitLab repo
- int16 to byte array
- Remove diacritics using Go
- · Repeat code if an error occured

## **Tools**

• JSON-TO-GO

### **Tricks**

```
func GetFuncName(fn interface{}) string {
    return runtime.FuncForPC(reflect.ValueOf(fn).Pointer()).Name()
}
```

```
func CallFuncWithParams(jobFunc interface{}, params []interface{}) ([]reflect.\)
    f := reflect.ValueOf(jobFunc)
    if len(params) != f.Type().NumIn() {
        return nil, errors.New("the number of params is not adapted")
    }
    in := make([]reflect.Value, len(params))
    for k, param := range params {
        in[k] = reflect.ValueOf(param)
    }
    return f.Call(in), nil
}
```

```
func Currency(nominal interface{}) string {
   p := message.NewPrinter(language.Indonesian)
   return fmt.Sprintf("IDR %v", p.Sprint(nominal))
}
```

```
func FNCheck(fn func() error) {
   if err := fn(); err != nil {
      fmt.Println(err.Error())
   }
}
```

## Catatan Seekor: PYTHON

Link

Fullstack Python

# Django

### Links

- Django Project
- PEP 8 the Style Guide for Python Code

\*\*\*\*

## Catatan Seekor: JAVA

### Link

- Clean Code: Smells and Heuristics
- Kumpulan Tutorial Spring Framework

## **Android**

#### Links

- Android JSON Parser
- How to Create an Android Chat App Using Firebase
- Membuat Realtime Chat Sederhana Menggunakan Android Studio Dengan Database Firebase
- Send messages to multiple devices
- Work with data more securely across additional Android versions

#### **Website**

• Android Hive by Ravi Tamada

### Catatan Seekor: PHP

#### Links

- CakePHP cache was unable to write in Centos 7
- Can't install with iconv on Mac OSX
- Codelgniter Form Validation: From Start to Finish
- · Codelgniter htaccess and URL rewrite issues
- Console google drive API
- Cross-Site Scripting (XSS)
- Deny all, allow only one IP through htaccess
- Extension gd is missing from your system laravel composer Update
- Facing a file permission error while running CakePHP in Ubuntu 10.4
- Fatal error: Call to undefined function Idap connect() in ubuntu
- · How to Allow IP Addresses with a .htaccess File
- How To Install and Use Composer on Debian 9
- How to Install PHP ext-zip extension?

#### **Symptoms**

- How to save a PNG image server-side, from a base64 data string
- · Learn web scraping using php!
- Linux 25 PHP Security Best Practices For Sys Admins
- · Ocasional error warning when CakePHP is writing to the cache
- · permissions error running Console/cake
- PHP7 : install ext-dom issue
- phpbrew ext install bz2 on OSX can't find BZip2
- phpbrew mit macOS 10.14 Mojave
- Using Google Drive REST API with Laravel
- Using Vue.js with a Lumen powered API
- Ultimate PHP Security Best Practices
- What is CodeIgniter?

## **LDAP**

CODE	Description
uid	UserID
cn	Common Name
sn	Sure Name
I	Location
ou	Organizational Unit
О	Organization
dc	Domain Component
st	State
С	Country

### Catatan Seekor: RUBY

#### Link

- Ruby on Rails Tutorial
- · An introduction to Ruby's \*Splat and double \*\*Splat operators
- Set Current Locale in your Rails App
- Social Meta Tags Setup in Rails
- · Meta robots tag: noindex, nofollow, noarchive, noodp & noydir
- Ruby on Rails Cheatsheet
- belajarrubyonrails
- How to map and remove nil values in Ruby
- Rails 4 render json nested objects
- Same Model for Two belongs to Associations
- · Best practice about empty belongs to association
- Rails associate two different fields from one model as one association
- · Running validations when using `update\_all`
- · You must use Bundler 2 or greater with this lockfile
- · How to delete specific characters from a string in Ruby?
- ruby on rails find\_or\_initialize
- · Setup and test Rails 6.0 with RSpec, FactoryBot, and Devise
- How to use .nil? .empty? .blank? .present? in Rails 5
- · How to reset postgres' primary key sequence when it falls out of sync?
- How to check a checkbox in capybara?
- Capybara (and Selenium) with RSpec & Rails 3: quick tutorial
- Using Named Scopes Across Models with ActiveRecord#Merge
- How to Use link\_to in Rails
- JavaScript file per view in Rails
- The RSpec Tutorial
- Rails Role-Based Authorization
- Devise Quickstart Guide
- Rails 5.2 credentials

### Catatan Seekor: SWIFT

- How can I get key's value from dictionary in Swift?
- JSON Parsing in Swift explained with code examples
- Let's Set Up Your iOS Environments
- Managing different Environments using XCode Build Schemes and Configurations

```
<?xml version='1.0' encoding='utf-8'?>
<html xmlns="http://www.w3.org/1999/xhtml" lang="" xml:lang="" class="calibre">
  <head>
   <title>...</title>
   <meta http-equiv="X-UA-Compatible" content="IE=edge"/>
   <meta name="description" content=""/>
   <meta name="generator" content="GitBook 3.2.3"/>
  <link rel="stylesheet" type="text/css" href="stylesheet.css"/>
<link rel="stylesheet" type="text/css" href="page_styles.css"/>
</head>
  <body class="calibre1" id="a209">
<div class="page">
       <h1 class="book-chapter" id="a204">...</h1>
       <div class="section">
           <h1 id="a205" class="calibre8">...</h1>
<a href="https://llinelayouts.glitch.me/" target="_blank"</pre>
class="calibre13 pcalibre1 pcalibre pcalibre2">1-Line Layouts</a>
<a href="https://help.apple.com/app-store-connect/#/"</pre>
target="_blank" class="calibre13 pcalibre1 pcalibre pcalibre2">App Store Connect
Help</a>
<a href="https://medium.com/headout-engineering/advanced-</pre>
debugging-with-xcode-9eba2845232a" target="_blank" class="calibre13 pcalibre1
pcalibre pcalibre2">Advanced Debugging with Xcode</a>
<a</pre>
href="https://stackoverflow.com/questions/35127086/android-inapp-purchase-
receipt-validation-google-play" target="_blank" class="calibre13 pcalibre1
pcalibre pcalibre2">Android : inApp purchase receipt validation google play</a>
class="calibre15"><a href="https://medium.com/@serverlessguru/best-practices-</pre>
for-serverless-development-d13061b3593e" target="_blank" class="calibre13
pcalibre1 pcalibre pcalibre2">Best Practices for Serverless Development</a>
<a href="https://semver.org/" target="_blank"</pre>
class="calibre13 pcalibre1 pcalibre pcalibre2">Semantic Versioning 2.0.0</a>
<a href="https://github.com/serverless/examples"</pre>
target="_blank" class="calibre13 pcalibre1 pcalibre pcalibre2">Serverless
Example</a>
<a href="http://gen.lib.rus.ec/" target=" blank"</pre>
class="calibre13 pcalibre1 pcalibre pcalibre2">Gen Book Download</a>
<a href="http://www.abarrak.com/2019/05/24/uuid-primary-</pre>
key-for-active-record-models" target="_blank" class="calibre13 pcalibre1 pcalibre
pcalibre2">Using UUIDs as Primary Key for Active Record Models</a>
class="calibre15"><a</li>
href="https://stackoverflow.com/questions/4937184/intellij-idea-global-search"
target="_blank" class="calibre13 pcalibre1 pcalibre pcalibre2">IntelliJ IDEA
global search</a>
<a href="https://www.freecodecamp.org/news/the-10-most-</pre>
popular-coding-challenge-websites-of-2016-fb8a5672d22f/" target="_blank"
class="calibre13 pcalibre1 pcalibre pcalibre2">The 10 most popular coding
challenge websites for 2020</a>
<a href="https://app-manifest.firebaseapp.com/"</pre>
target="_blank" class="calibre13 pcalibre1 pcalibre pcalibre2">Generator Manifest
JSON</a>
<a href="https://blog.tcs.de/clear-flush-cache-manifest-</pre>
file-in-chrome/" target="_blank" class="calibre13 pcalibre1 pcalibre
pcalibre2">Clear / Flush the cache.manifest file in Google Chrome</a>
-
<a href="https://trendblog.net/enable-disable-developer-</pre>
options-android/" target="_blank" class="calibre13 pcalibre1 pcalibre pcalibre2">How to enable, disable developer options android</a>
class="calibre15"><a
href="https://til.secretgeek.net/gitbook/use_gitbook_locally.html"
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```

```
locallv</a>
<a href="https://www.itwonders-web.com/blog/push-</pre>
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pcalibre1 pcalibre pcalibre2">Tutorial: Web Push notification using Firebase</a>
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us/azure/architecture/best-practices/api-design" target="_blank" class="calibre13
pcalibre1 pcalibre pcalibre2">Web API design</a>
<a href="https://mathieu.fenniak.net/the-api-checklist/"</pre>
target="_blank" class="calibre13 pcalibre1 pcalibre pcalibre2">The Web API
Checklist -- 43 Things To Think About When Designing, Testing, and Releasing your
API</a>
<a href="https://stackoverflow.com/questions/12806386/is-</pre>
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pcalibre1 pcalibre pcalibre2">Is there any standard for JSON API response format?
</a>
<a href="https://techlogicsolutions.co.uk/iso8583/"</pre>
target="_blank" class="calibre13 pcalibre1 pcalibre pcalibre2">ISO 8583 Financial
Transaction Message Format</a>
class="calibre15"><a</li>
href="https://www.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.ii
s.ds.parjob.adref.doc/topics/r_deeadvrf_EBCDIC_to_ASCII.html" target="_blank"
class="calibre13 pcalibre1 pcalibre pcalibre2">Table EBCDIC to ASCII</a>
</111>
<h3 id="a206" class="calibre10">Endpoint</h3>
<a href="https://github.com/toddmotto/public-apis"</pre>
target="_blank" class="calibre13 pcalibre1 pcalibre pcalibre2">Public APIs</a> by
Todd Motto
<h4 id="a207" class="calibre10">Whatsapp API</h4>
class="calibre15"><a href="https://wablas.com/documentation" target=" blank"</pre>
class="calibre13 pcalibre1 pcalibre pcalibre2">Wablas</a>
<h4 id="a208" class="calibre10">E Pay</h4>
<a href="https://www.artajasa.co.id/" target="_blank"</pre>
class="calibre13 pcalibre1 pcalibre pcalibre2">Artajasa</a>
<a href="https://easypay.co.id/" target="_blank"</pre>
class="calibre13 pcalibre1 pcalibre pcalibre2">Easypay</a>
</div>
</div>
```

<div id="9Dna64ksR6eNH0dIhAX0MF" style="display:block !important; page-break-</pre> before: always !important; break-before: always !important; white-space: pre-wrap !important">

<a href="#a205" style="min-width: 10px !important; min-height: 10px !important;</pre> border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important"> </a> <a href="#a209" style="min-width: 10px !important; min-height: 10px !important;</pre> border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important"> </a> <a href="#a206" style="min-width: 10px !important; min-height: 10px !important; border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important"> </a> <a href="#a204" style="min-width: 10px !important; min-height: 10px !important; border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important"> </a> <a href="#a208" style="min-width: 10px !important; minheight: 10px !important; border: solid 1px rgba(0, 0, 0, 0) !important; text-

```
decoration: none !important"> </a> <a href="#a207" style="min-width: 10px !important; min-height: 10px !important; border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important"> </a> <a href="#9Dna64ksR6eNHOdIhAXOMF" style="min-width: 10px !important; min-height: 10px !important; border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important"> </a> </div></body></html>
```

## Catatan Seekor: POSTGRESQL

#### Link

- Faster JSON Generation with PostgreSQL
- How to create prepared statements in Sequelize?
- PostgreSQL SQL Tricks
- Practical Persistence in Go: Organising Database Access
- Sequelize ORM npm library found vulnerable to SQL Injection attacks
- What are '\$\$' used for in PL/pgSQL
- PostgreSQL Query As Json

#### Stackoverflow

- · Syntax error at end of input in PostgreSQL
- psql: FATAL: role "postgres" does not exist

# Catatan Seekor: MySQL

### **Article**

- A Basic MySQL Tutorial
- MySQL Error codes
- MySQL ON DUPLICATE KEY UPDATE for multiple rows insert in single query

# **Catatan Seekor: MongoDB**

## Refferensi

### **Article**

- How To Use Go with MongoDB Using the MongoDB Go Driver
- Learn MongoDB: CRUD Basics
- \*\*\*\*MongoDB Go Driver Tutorial

# Catatan Seekor: RabbitMQ

• RabbitMQ Tutorials

## Catatan Seekor: Docker

- Stop and remove all docker containers and images
- Docker on Windows (Boot2Docker) certificate signed by unknown authority error
- \*\*\*\*Docker error Error response from daemon: Error processing tar file: write /dir : no space left on device
- Docker rmi

### Catatan Seekor: DEVOPS

- 8 Tips for Containerizing Django Apps
- A Complete List of HTTP Status Lines
- Application Logs from Kubernetes to S3 and Elasticsearch using Fluentd
- Best Practices for Logging in Docker Swarm
- Configure logging drivers
- Docker Reference Architecture: Docker Logging Design and Best Practices
- Top 10 Docker Logging Gotchas
- Quick DevOps
- Membuat VPS di Google Cloud Platform
- How to Install Rancher Docker Container Manager on CentOS 7
- Cara Install Dan Setup Rancher 2.x (Latest), Kubernetes/Docker Di Linux
- How do I find my SSH public key on Windows server? [closed]
- How to install Apache, PHP 7.3 and MySQL on CentOS 7.6
- How to Install and Use PHP Composer on CentOS 7
- How To Import and Export Databases in MySQL or MariaDB
- Ultimate list of Cheat Sheet for System Administrator
- Make RESTful API calls in Rancher/Docker without a port
- · Docker orchestration with Rancher
- CentOS 7 VirtualBox no internet access
- How To Install / Enable OpenSSH On CentOS 7
- Update: Rancher 2.5 alone install k3s and can't start without privileged
- Reset (clean up) a Rancher Docker Host

#### **Tools**

CloudCraft

#### **Testing**

- JMeter
- Vegeta

## **List Port**

#### Common

PORT	Description
20, 21	FTP
22	SFTP/SSH
23	Telnet
25	SFTP
53	DNS
80	НТТР
110	POP3
161	SNMP
443	HTTPS
389	Lightweight Directory Access Protocol (LDAP)
636	Lightweight Directory Access Protocol with SSL (LDAP)
3389	Remote Desktop Protocol

### **Web Server**

PORT	Description
5000	Registry Docker

### **Database**

PORT	Description
1433	MS SQL
1521	Oracle Listener
3306	MySQL/MariaDB
5432	PostgreSQL
6379	Redis
11211	Memcached
27017	MongoDB
50000	DB2

## **Web Development**

PORT	Description
3000	NodeJS, ReactJS
4200	AngularJS
9000	Golang

# Messaging

PORT	Description	
1414	MQ Listener	
1364	IBM Connect: Direct	
2181	Kafka Zookeeper Listener	
4151	NSQ	
7474	Tibco RV Daemon	
8200	GoToMyPC	
9092	Kafka Broker Listener	
15672	RabbitMQ Web UI	

# **List Response Code HTTP**

### 1xx | Informational

Value	Description
100	Continue
101	Switching Protocols

## 2xx | Successful

Value	Description	
200	ОК	
201	Created	
202	Accepted	
203	Non-Authoritative Information	
204	No Content	
205	Reset Content	
206	Partial Content	

### 3xx | Redirection

Value	Description
300	Multiple Choices
301	Moved Permanently
302	Found
303	See Other
304	Not Modified
305	Use Proxy
306	(Unused)
307	Temporary Redirect

## 4xx | Client Error

Value	Description			
400	Bad Request			
401	Unauthorized			
402	Payment Required			
403	Forbidden			
404	Not Found			
405	Method Not Allowed			
406	Not Acceptable			
407	Proxy Authentication Required			
408	Request Timeout			
409	Conflict			
410	Gone			
411	Length Required			
412	Precondition Failed			
413	Request Entity Too Large			
414	Request-URI Too Long			
415	Unsupported Media Type			
416	Requested Range Not Satisfiable			
417	Expectation Failed			
426	Upgrade Required			

## 5xx | Server Error

Value	Description	
500	Internal Server Error	
501	Not Implemented	
502	Bad Gateway	
503	Service Unavailable	
504	Gateway Timeout	
505	HTTP Version Not Supported	

### Reff

- RFC HTML Response Status Codes
- W3 Status Code Definitions

## **List Transaction Code**

Code	Response	Detail
00	Transaction Approved	
01	Refer to card issuer	
02	Refer to card issuer, special condition	
03	Invalid merchant or service provider	
04	Pick up card (no fraud)	
05	Do not honor	
06	General error	The customer's card issuer has declined the transaction as there is a problem with the card number. The customer should contact their card issuer and/or use an alternate card.  Note: This response code can also be returned via the Rapid API if you run a transaction query prior to the transaction being completed.
07	Pick up card, special condition (fraud account)	
08	Honour with Identification	Transaction processed successfully - identification NOT required. This code is returned by some banks in place of 00 response.

### Reff

- https://developer.visa.com/guides/request\_response\_codes
- https://go.eway.io/s/article/Bank-Response-Codes-Responses-00-to-38
- https://go.eway.io/s/article/Bank-Response-Codes-39-to-96
- https://developers.google.com/standard-payments/v1/fops/card/responsecodes

### Catatan Seekor: AWS

### Link

- Building CICD pipelines for serverless microservices using the AWS CDK
- How To Build a Serverless CI/CD Pipeline On AWS

### Catatan Seekor: GIT

### Link

- Caching your GitHub password in Git
- git the simple guide
- GitLab ssh -T git@xxxx.gitlab.com asking password
- How to ignore files already managed with Git locally

# Catatan Seekor: TOOL

#### Link

- Chmod
- Quillbot

### Catatan Seekor: LINUX

### For check open port linux

netstat -ntulp

- Enable SSH Server on Debian
- \*\*\*\*How do I change permissions for a folder and all of its subfolders and files in one step in Linux? [closed]
- Fix 'E: Could not get lock /var/lib/dpkg/lock' Error in Ubuntu [Quick Tip]
- How to kill a process running on particular port in Linux?
- update-java-alternatives vs update-alternatives --config java

# Catatan Seekor: MACBOOK

### Link

• MacBook Pro Touch Bar Stuck At Black Screen With Only Esc Showing? Here's The Fix

```
<?xml version='1.0' encoding='utf-8'?>
<html xmlns="http://www.w3.org/1999/xhtml" lang="" xml:lang="" class="calibre">
  <head>
    <title>...</title>
    <meta http-equiv="X-UA-Compatible" content="IE=edge"/>
    <meta name="description" content=""/>
    <meta name="generator" content="GitBook 3.2.3"/>
  <link rel="stylesheet" type="text/css" href="stylesheet.css"/>
<link rel="stylesheet" type="text/css" href="page_styles.css"/>
</head>
  <body class="calibre1" id="a279">
<div class="page">
        <h1 class="book-chapter" id="a277">...</h1>
        <div class="section">
            <h1 id="a278" class="calibre8">...</h1>
<a href="https://www.osboxes.org/" target="_blank"</pre>
class="calibre13 pcalibre1 pcalibre pcalibre2">OSBoxes</a>
</div>
</div>
<div id="9Dna64ksR6eNHOdIhAXOMF" style="display:block !important; page-break-</pre>
before: always !important; break-before: always !important; white-space: pre-wrap
!important">
<a href="#a278" style="min-width: 10px !important; min-height: 10px !important;</pre>
border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important">
<a href="#a277" style="min-width: 10px !important; min-height: 10px !important;</pre>
border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important">
</a> <a href="#a279" style="min-width: 10px !important; min-height: 10px
!important; border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none
!important"> </a> <a href="#9Dna64ksR6eNH0dIhAX0MF" style="min-width: 10px
!important; min-height: 10px !important; border: solid 1px rgba(0, 0, 0, 0) !important; text-decoration: none !important"> </a> </div></body></html>
```

# Catatan Seekor: DESIGN

### Reff

- Freepik
- Pinterest
- pttrns.

### **Save The Date**

- Elli
- Greeting Island

# Catatan Seekor: SEO

- Menjelajahi galeri penelusuran
- 5 Tips Mudah SEO untuk Developer

## Catatan Seekor: ALGORITHM

#### Link

• Penjelasan Sederhana Tentang Time Complexity dan Big-O Notation

### Catatan Seekor: KYUBI

### Lab

Hack This Site

### **Tools**

- BeEF
- I can see your local web servers
- Metasploit
- Sn1per
- SQLMAP
- SQL Ninja
- Qark

### Links

- Mutation XSS in Google Search by Tomasz Nidecki
- Web Penetration Testing by Rajpal Singh
- Bincang Cyber
- GPG Tutorial
- CVEDetails

# Catatan Seekor: SOFTWARE

• mas-13