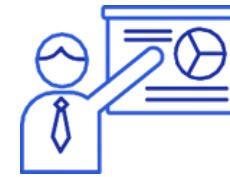


Route

Back-End Web DEVELOPMENT DIPLOMA

2024



Instructors

We have more than 50 qualified Instructor and trainers we are able to deliver high quality training programs to our students.



Students

We trained more than 10,000 plus students and helped them to start their tech career through our expert career guidance counselor.



Branches

Today we have 5 branches across Cairo, Giza and Alexandria.



Students

Our programs provide more than 20 tech disciplines that cover a wide technological spectrum including for example but not limited to data science to web development and UX Design.

Our Education Programs

01

Professional Mentors

02

Constantly Updated

03

Practical Projects

04

Interactive workshops

Back-end Content

Asp.NET / Node.js / PHP

[5 MONTHS] (150 HOURS)

PHP & Laravel Content

[5 MONTHS] (150 HOURS)

PHP&Laravel Content

1-PHP

Variables

Conditions(if,
switch
,match)

Builtin
methods

File uploads

Backend
intro

Php data
types

Array (Numeric
-assosiative-
multi
dimitional)

·Pass by value,
pass by refance

File Validation

Php files

Constants

Loops (for,
while,dowhile,
foreach)

Requests(GET
,POST)

·Session
·Cookies

Php intro

Operators

Functions

Form
validations

·File inclusion
·exam

2-MYSQL

- Database intro

- ERDentity

- Relationships

- Casestudy
(erd
,relationship)

- Create
database

- Create
tables

- CRUD
operations

- Aggregattion
functions

- Array (N
umeric –
assosiative-
multidimitional)

- Grouping

- Operations

- Orders,
limit ,offset

- Subquires

- Joins

- Pivotable
· Altertable

- Index
· View

- Shell
,workbench
,cmd

- Trigger
.Stored
procedure

- Events
API

3-PHP WITH MYSQL

·Connecting to php
with my sql

project (Blog)

Authentication

Localization

Pagination

Authorization

E-commerce Project
with mintor

4-PHP OOP

Oopintro

Class-object

Properites–
methods

•Construct–
destruct

Inheritance

•Access
modifiers

Abstract
class

Interface

OOP
principles

SOLID
principles

Traits

Static

Const

final

Method chaining

Namespace

•Aggregation
–
composition

•Create (ClassDB
–Class Request–
Class Session–
Class Validation)

•PDO
•ProjectToDo List
(with oop PDO)
.Project with
minter

5-MVC

Routing

Models

Session

- Elquest model

6- Laravel

view

- Query builder

- Layout

- Fileupload

Laravel install

Controller

- CRUD Operations

- Assets

- Model relationships

Laravel mvc structure

Migration

- Laravel Validation

- Pagination

- Route name, group

·Seeders–
factories–
tinker

Middle ware

webSocket

Swagger

E-commerce
project

Authantication

·API
resources

Social
medialogin

Pusher

Project with
mintor

Authorization

API
Authantication

Email
Verification

Paymob

SDLC

Agile

Wordpress

Docker

Node.js Course

5 MONTHS (150 HOURS)

Route



Node.JS Content

JavaScript
refresh

MVC

Validation
(JOI)

Nodejs Basics

ExpressJS

Routers &
Models

Middleware

Node with
MySQL

ORM
Sequelize

MongoDB

ODM
mongoose

Relation two ways
using(mongoose)

Error Handling

File Uploads

Pagination

Authentication

Authorization

Async
Requests

RestAPI

Social media login
using (G-mail)

CRON jobs&Create
PDF&QRcode

Deployment in
realserver

Templating
engines(EJS)

Sending email
(G-mail&outlook)

Node.JS Content

Sessions

Intro to NestJS

Socket. IO

GraphQL

Introduction to RedisDB(Cashing)

Intro to Docker

Asp.NET Core

5 MONTHS (150 HOURS)

ASP.Net Content

1-Database Design and Microsoft SQL Server:

Comment, DataTypes , Variables

How to Backup and Database Restore

SubQuery

Database Hierarchy

Relationship Rules

Logical Design -Entity Relationship Diagram(ERD)

DDL(Create- Alter-Drop- Wizard)

DQL- Select

Top

Union Family

Stored Procedures and Triggers

Physical Design (Mapping)- Database Schema

DML(Coding, Wizard)

Built-In Functions

View

User Defined Functions: (Scalar Function- InlineTable Function-Multi-statementtable Function)

TCL (Transactions) and DCL (Permissions) & Index

2-C#

DotNet
Introduction

Object

String Formatting

Why String is
Immutable

NullableTypes
and Null
Propagation
Operator

Comments,
Errors, Variable
Declaration

Fractions and
Discard

Conditional
Statements (If,
Switch)

One D Array and
Two D Array -
Judged Array

Functions:
(Passing ValueType
Parameters-Passing
ReferenceType
Parameters-Passing
ByOut-Params)

DataTypes (Value
Type-Reference
Type)

Operators and
Operators
Property

String Vs
String Builder

Deep Copy and
Shallow Copy

Enum

Boxing and
unboxing



3-OOP

Access Modifiers

Struct

Encapsulation

Indexer

Inheritance

Polymorphism
[Overloading-
Overriding]

Binding

Interface

SOLID Principles

Abstract [Class,
Method,Property]

Operator
Overloading

Enum

4-AdvancedC#

Generics Constraints

List Methods

Anonymous Method
and Lambda
Expression

Generics

Non Generics
Collections

Delegate

New Updates at
Delegate in C # 10

Generics Vs Object
(IComparable Vs
Generic IComparable)

Generics
Collections

Built-InDelegates
[Predicate, Func,
Action]

Event

5-LINQ

Anonymous
Type

LINQ Operators

Implicit Typed Local
Variable
[Var, Dynamic]

What is LINQ

Extension
Method

LINQ [Syntax -
Execution Ways]

6-Entity Framework Core

EF Core
Mapping
Ways

Relationships
Mapping

Eager Loading
Vs Lazy Loading

Data
Seeding

View Mapping

EF Core Power
Tools

(One to One,
One to Many,
Many to Many)

Database
First
Approach

Dapper

Code First
Approach

Migration

Inheritance
Mapping

Run SQL Query
From C Sharp
Code

BenchMark

7-ASP.Net MVC Project

Intro to
ASP.NET

ASP.NET Projects
(ASP MVC, Razor
Pages, Web APIs)

.NET Core Vs
.NET
Framework

Project Architecture
Pattern (3-Tiers
Architecture)

Routing in
ASP.NET
MVC

Controllers,
Actions,
Views

Action
Parameters
Binding

Layout,
_ViewStart,
_ViewImport

Tag
Helpers

Client-Side
Validation

ViewData Vs
 ViewBag Vs
 TempData

Partial View

Generic
Repository
Pattern

Injection
Dependency

Mapping

Unit of Work

Documents
Uploader

Security
(Authentication,
Authorization) Using
Identity

8-ASP.Net
APIs Project (E-
Commerce)

Project Architecture
Pattern (Onion
Architecture)

Mapping Using
Auto Mapper

JWT Token
Creation

Unit of Work

ASP.NET Web
APIs Overview

Generic
Repository

API Error
Handling

Security
(Authentication,
Authorization)
Using Identity

Payment
Module

Post man and
Swagger
Documentation

Products
Module

API Paging,
Filtering, Sorting
& Searching

JWT Token
Creation

Caching

What are
RESTful APIs?

Specification
Design Pattern

Redis

Orders
Module

Deploying On
IIS

9-SignalR

10 - Design Patterns

Creational DP [Singleton, Abstract Factory]

What are Design Patterns?

11-Agile and Azure DevOps

Behavioural DP [Strategy, Observer]

Structural DP [Decorator, Facade]

Accredited By

Accredited by the Egyptian Engineers Syndicate



Our Training For Universities



Our Job Fair Partners



Route Graduates Secured a Job at:





MORE THAN 10K STUDENTS

Route Tech Summit :



Route

can't wait to see you !

We're here to support you!
Email us at routeegypt@gmail.com
for comments or questions.