



Digital Lync

www.digital-lync.com



Full Stack Development Course

21+

MODULES

10+

LIVE PROJECTS

2

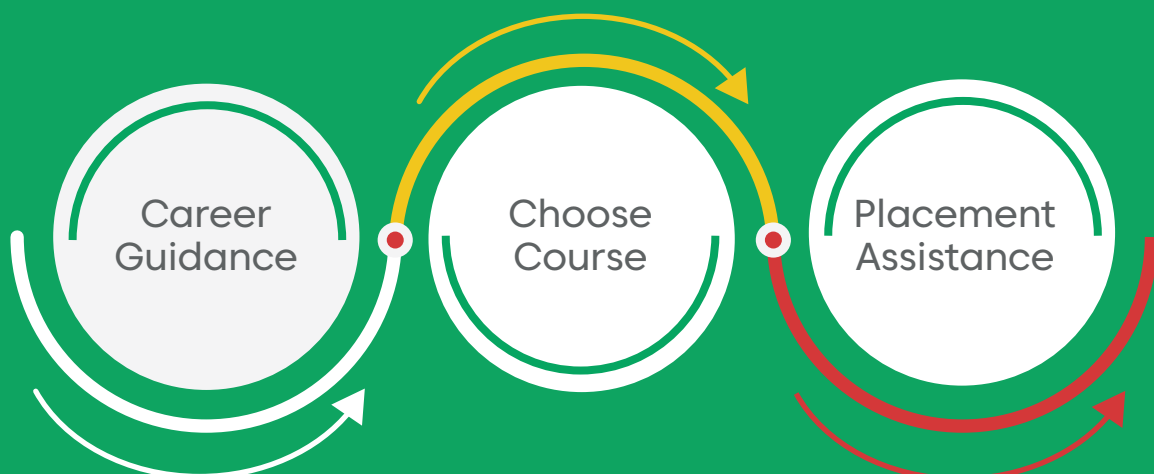
CASE STUDIES



About Digital Lync

Digital Lync is one of the most trusted platforms for skilling and upskilling students in Hyderabad. Over the past 3 years, we have upended the technical education system by emphasizing on disruptive technologies and successfully trained over 10,000+ students. We proudly offer masters-level training for students in three core regions – Digital Marketing, PI stack, and Full Stack.

We also provide training in individual courses like – Python, DevOps, Full Stack, Big Data, Data Science, IoT, Digital Marketing, Graphic Design, UI/UX Design, Game Development, AWS, Azure, Angular, ReactJS, NodeJS, PowerBI, and Tableau.



Why Digital Lync

We at Digital Lync, focus on creating experiences and not just imparting knowledge. We offer courses in a plethora of subjects ranging from digital marketing, cloud computing, machine learning and many more. Each course is taught by experts with years of industry experience and immense passion for their respective fields. We teach students in a classroom environment to ensure more interaction and engagement.

Our main goal is to make students industry-ready, highly-skilled and empowered. Our facilities and infrastructure provide students with a nurturing environment that helps them learn and grow.



2000+

Students Enrolled

4.6 ★★★★★

Ratings



100+

Batches



About Digital Lync CEO

Our CEO Mr. Manikanta Kona has a burning desire to help empower people and make them realize their potential. He gave up a successful career in the US to pursue the path of entrepreneurship. He has a Master's degree from Purdue University and his knowledge is backed by years of industry experience. He has mastered the art of empowering people through education and lives his passion every day. He believes that education goes beyond classrooms and certifications and focuses solely on developing the skills needed in the workforce.

Mani Kanta
CEO



Events at Digital Lync



Data Science Event

Digital Lync conducted an event on "The importance of Data Science Technology in the IT Industry and the Job Opportunities on Data Science. Catch a glimpse of this industry interaction session by Mr. Praveen Gurrapu, Data Scientist.



Event on what companies expect from Freshers

Digital Lync conducted an event highlighting the importance of what companies expect from Freshers. Catch a glimpse of this meet initiated by Mr. Narsimha Reddy- CEO PublicVibe

DON'T WORRY
YOU ARE
AT RIGHT
PLACE

PROGRAM CURRICULUM

1. Introduction to Full Stack Development- Course Overview.

HTML

Introduction to HTML.

HTML Tags

HTML Attributes

HTML Editors

HTML Document Structure

HTML Headings

HTML Paragraphs

HTML Styles

HTML Comments

HTML Blocks, Classes, Ids

HTML Tables

HTML Lists

HTML Images

HTML Forms

HTML File Paths

CSS

Introduction to CSS

CSS Selectors

Inserting CSS in to HTML(Inline, Internal,External)

Colors, Borders, Background, margins, padding.

Working with core concepts of CSS

Box/Model,Outline,Fonts,Links,Lists,Tables,Combinations

Introduction to Javascript

Scripting Languages and their usage

Getting Started with JavaScript.

History of JavaScript

Variables

Data types

Real time examples

Operators and control statements.

Types of Operators and their usage.

If statement

If else statement

If else if statement

Real time examples

while loop

do-while loop

for loop

keywords used in control statements like return,break.

Real time examples

Working with Functions

Defining Functions

Function Expressions

Calling Functions.

Function Scope.

Nested Functions.

First class functions

IIFE

Real time examples

Working with Functions

Creating an Array.

Accessing,Looping Over,removing elements.

Array methods in detail.

Real time examples

Working with Numbers and Dates

- Numbers and its methods.

- Date and its methods.

- Real time examples

Working with Strings

- Strings and its methods.

- Real time examples

Working with Objects

- Objects and properties.

- Creating new objects.

- Creating objects using create function.
this keyword.

- Real time examples

Working with Scopes and Events

- Types of Scopes in detail.

- Different types of events with real time examples.

Working with Validations

- Basic Validations

- Advanced Validations

- Real time examples

Understanding Garbage Collection and Best coding practices.

3. Document Object Mode

Working with DOM

Intro to DOM

Methods, Documents, Elements

Events

Event Listener

Navigation

Nodes

Collections

Node Lists

4. POC: Develop Employee Management System

Develop Employee Management System with the following operations.

Login

Register

Add Employee

Update Employee

Delete Employee

Get a list of all employees

5. Bootstrap

Working with Bootstrap 4

Intro to Bootstrap 4.

Grid System

Typography

Colors

Tables

Images

Jumbotron

Alerts

Buttons

- Button Groups
- Badges, ProgressBars
- Pagination
- Dropdowns
- Navs,Navbar
- Forms, Input
- Carousel
- Modal
- Tooltip
- An application using Bootstrap 4

6.

POC: Develop Employee Management System

TypeScript

- Introduction to TypeScript
- Type Script Compiler
- Variables
- Datatypes
- Object oriented programming
- Classes
- Inheritance
- polymorphism
- Abstraction
- Interfaces
- Abstract classes
- Enums
- Type Inference
- Type Compatibility
- Advanced Types
- Symbols
- Iterators and Generators
- Namespaces
- Modules
- Generics

Angular Basics

- Introduction to Angular

- Different versions of Angular

- Differences between Angularjs, Angular versions

Angular Basics

- Building blocks of Angular.

- Environment Setup

- First Application using Angular.

- Components

- Generating Components using Angular CLI

Angular Basics

- Templates

- Directives

- Services

Angular Basics

- Dependency Injection

- Generating Services using CLI.

Working with Data and Events

- Property Binding

- Attribute Binding

- Adding Bootstrap

- Class Binding

- Style Binding

- Event Binding

- Event Filtering

Working with Data and Events

- Template Variables

- Two-way Binding

- Pipes

- Custom Pipes

Components in detail.

- Input Properties

- Aliasing Input Properties

- Output Properties

- Passing Event Data

- Aliasing Output Properties

- Templates

Components in detail.

- Adding Styles

- View Encapsulation

- ngContent

- ngContainer

Deep dive in to Directives.

- Introduction

- ngIf

- Hidden Property

- ngSwitchCase

- ngFor

- ngFor and Change Detection

Deep dive in to Directives

- The Leading Asterisk

- ngClass

- ngStyle

- Safe Traversal Operator

- Creating Custom Directives

Deep dive in to Directives

- The Leading Asterisk
- ngClass
- ngStyle
- Safe Traversal Operator
- Creating Custom Directives

Play with Template-driven forms

- Building a Bootstrap Form
- Types of Forms
- ngModel
- Adding Validation
- Specific Validation Errors
- Styling Invalid Input Fields

Play with Template-driven forms

- Cleaner Templates
- ngForm
- ngModelGroup
- Control Classes and Directives
- Disabling the Submit Button
- Working with Check Boxes
- Working with Drop-down Lists
- Working with Radio Buttons

Play with Reactive Forms

- Introduction
- Creating Controls Programmatic-ally
- Adding Validation
- Specific Validation Errors
- Implementing Custom Validation

Play with Reactive forms

- Asynchronous Operations
- Asynchronous Validation
- Showing a Loader Image

- Validating the Form Upon Submit
- Nested FormGroups
- FormArray
- FormBuilder

Working with HTTP Services

- Introduction
- JSONPlaceholder
- Getting Data
- Creating Data
- Updating Data
- Deleting Data
- OnInit Interface
- Separation of Concerns
- Extracting a Service

Working with HTTP Services

- Handling Errors
- Handling Unexpected Errors
- Handling Expected Errors
- Throwing Application-specific Errors
- Handling Bad Request Errors
- Importing Observable Operators and Factory Methods
- Global Error Handling

Working with HTTP Services

- Extracting a Reusable Error Handling Method
- Extracting a Reusable Data Service
- The Map Operator
- Optimistic vs Pessimistic Updates
- Observables vs Promises

Routing and Navigation

Introduction

Routing in a Nutshell

Configuring Routes

RouterOutlet

RouterLink

RouterLinkActive

Getting the Route Parameters

8.

POC Create Employee Management System

POC: Create Employee Management System with the following requirements. The Admin should be able to do the following.

Add Employees

Delete Employees

Update Employees

Get a list of all employees

9.

Node JS

Working with Node JS

Introduction to NodeJS

History of NodeJS

Features of NodeJS

Architecture of NodeJS

Environment Setup

Running First Application

REPL Terminal

NPM

Core concepts of NodeJS

Callbacks

Event-driven programming

Core concepts of NodeJS

Working with FileSystem

Understanding Global Objects

Core concepts of NodeJS

Streams

Buffers

Intro to Modules

Core concepts of NodeJS

Working with predefined modules

OS Module

Path Module

Core concepts of NodeJS

Crypto Module

Debugger

Using NodeJS for Web

Understanding HTTP Module

Creating a server

Handling requests.

Web Modules of Node JS

URL Module

Net Module

10. **ExpressJS**

ExpressJS

Introduction to Server Side Framework

Getting started with Express.

Features of Express

Installation of express

First Application using Express JS

Understanding Express JS Request

- Request object

- Request object properties

- Request object methods

- Real time example

Understanding Express JS Response

- Response object

- Response object properties

- Response object methods

- Real time example

Understanding Get and Post operations

- Intro to Get Request

- Developing code to handle Get Request

- Intro to Post Request

- Developing code to handle Post Request

Routing in Express-I

- Intro to Routing

- Route methods

- Route Paths

- Route Params

- Route Handlers

Routing in Express-II.

- Response methods

- `app.route`

- `express.Router`

Working with Middleware

- Getting started with middleware

- Writing middleware

- Configuring middleware

- Using middleware

Working with Middleware

- Application level middleware
- Router-Level Middleware
- Error-handling middleware
- Built-in Middleware
- Third-party Middleware

Template Engine-I

- Introduction to Template Engines
- Different Template Engine
- Intro to Pug
- Using pug with express

Template Engine-II

- Working with EJS
- Working with handlebars

Advanced Express JS

- Error Handling
- File Uploading

Realtime Modules

- Nodemailer
- Multer

11.

MongoDB

Introduction to MongoDB Database

- Getting started with MongoDB
- Features of MongoDB
- Environment Setup

Basics of MongoDB

Creating First Database

Creating Document and Saving it to Collection

Dropping a Database

Creating a Collection - Using `db.createCollection(name,options)`

Dropping a Collection

CRUD Operations

Creating/Inserting a document in collection using javascript file

Inserting Array of Documents

Reading a Document - Querying

Reading a Document with `$lt`, `$gt` operator

Updating Documents

Deleting documents

Indexes and ObjectIds

Introduction to Indexes

Understanding Impact of Indexes

Creating Index

Finding Indexes

Dropping Index

Understanding ObjectIds

Creating ObjectIds

Advantages of ObjectIds created by MongoDB

Disadvantages of ObjectIds created by MongoDB

Aggregation and Data Modelling in MongoDB

Using aggregate() method

Using distinct() and count()

Sorting documents

Introduction to Data Modelling in MongoDB

Data Modeling using References

Data Modeling using Embedded documents

Relationships in MongoDB

One-To-One Relationship

One-To-Many Relationship

MongoDB with Nodejs

Introduction

Using MongoClient

Using Mongoose

Creating database using MongoClient and Mongoose

CRUD operations on MongoDB with Nodejs

Insert

Update

Delete

Retrieve

12. Creating RESTful Web Service Using Nodejs and MongoDB and Application on Angular

POC 1 : Node/Mongo :

Create RESTful Web Service Using Nodejs and MongoDB(to store Data collections).

GET /person: Displays a table with a list of people

POST /person: Displays a form to create a single person

PUT /person/{id}: Displays a form through which a person with a specified id parameter can be edited and updated

DELETE /person/{id}: Displays a page through which a person with a specified id can be deleted

Person collection fields: Name, Age, Gender, Mobile number

POC : Angular

Design a small Single Page Application(in Angular 2/4/5/6/7) to manage a list of people.

Create at least 3 views:

list all people

edit a person

delete a person

LIVE PROJECTS



Review Commenting System:



Online Multi-pay System.



Co Working spaces management Application.



Online Movie Data Platform.



LetsMeet- A Collaboration tool



Online Results Management System.



SourceOne- Portal for Placements.



E-LoanSure - Loan Management System.



WeatherFC



EasyABS

CASE STUDIES

Flipkart



Flipkart

E-Commerce application such as Flipkart Developing an E2E E-commerce application using front end technologies such as HTML,CSS,BS, Angular and backend technologies such as NodeJS, MongoDB , Express etc.

Netflix

How netflix did product transformation using full stack. How the development team provided better user experience for both mobile and desktop users by using prefetching techniques.

NETFLIX

150+ Industry Partners



DigitalLync Students are Successfully Placed



CAREER GROWTH PARTNER FOR 10000+ ASPIRANTS



LOCATIONS

INDIA



Gachibowli

2nd Floor, Plot No: 6-11, survey No., 40
Khajaguda, Naga Hills Rd, Madhura Nagar
Colony, Gachibowli Hyderabad, Telangana
500008



USA

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