

Web Design/Front End Developer:- HTML, CSS, Bootstrap, Javascript & JQuery

<u>HTML</u>	
<u>INTRODUCTION</u>	<u>FORM ATTRIBUTES</u>
<ul style="list-style-type: none"> • What is HTML? • What is an HTML Element? • Web Browsers • HTML Page Structure • HTML History • HTML Editors • Save the HTML Page 	<ul style="list-style-type: none"> • Autocomplete • Autofocus • Form, form action, form type, form method, Form validate, form target • Height and width • List • Min and max multiple patterns (regexp)
<u>HTML BASIC</u>	<u>HIDDEN FIELDS</u>
<ul style="list-style-type: none"> • HTML – Elements • HTML – Tags • HTML – Text • HTML – Formatting, Pre • HTML – Attributes • HTML – Font • HTML – Anchor Links • HTML – Comments • HTML – Lists • HTML – Images • HTML – Tables • HTML – Bg-color, Color Codes, Color Chart, Background 	<ul style="list-style-type: none"> • HTML – Password • HTML – Reset • HTML – Submit • HTML – Checkboxes, Radio, Select, Hidden Fields, Upload, Textarea
<u>SPECIAL TAGS</u>	<u>FORMATTING TAGS</u>
<ul style="list-style-type: none"> • HTML – Body, Meta • HTML – Style • HTML – Div • HTML – Layouts, Frames 	<ul style="list-style-type: none"> • HTML – Bold • HTML – Paragraphs • HTML – Headings • HTML – Line Breaks
<u>HTML – HORIZONTAL RULE</u>	<u>HTML5 SYLLABUS</u>
<ul style="list-style-type: none"> • HTML – Email • HTML – Italic 	<ul style="list-style-type: none"> • <article> • <aside> • <figcaption>, <figure> • <footer>, <header>

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	<ul style="list-style-type: none"> • <mark> • <nav> • <progress> • <section> • <summary> • <time>
FORM ELEMENTS	FORM INPUT TYPES
<ul style="list-style-type: none"> • <datalist> • <keygen> • <output> 	<ul style="list-style-type: none"> • Color • Date, Datetime, Datetime-local • Email • Month • Number • Range • Search • Tel • Url • Time • Week
HTML FORMS	
<ul style="list-style-type: none"> • HTML – Forms • HTML – Input • HTML – Text Fields 	
CSS	
INTRODUCTION	CSS3
<ul style="list-style-type: none"> • What is CSS? • Why Use CSS? • CSS Syntax • CSS Selectors • How To Add CSS 	<ul style="list-style-type: none"> • Borders • border-radius • Border Images • Backgrounds • Background Size • background-origin • Text Effects • text-shadow • box-shadow • Text, Fonts • Text-overflow • Word-wrap • Word-break

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<u>CSS BASIC</u>	<u>TRANSFORMS</u>
<ul style="list-style-type: none"> • CSS Syntax • CSS Selectors (ID, Class, Tags, Attributes) • CSS Styling 	<ul style="list-style-type: none"> • 2D Transforms • 3D Transforms
<u>CSS BOX MODEL</u>	<u>TRANSITIONS</u>
<ul style="list-style-type: none"> • CSS Border • CSS Outline • CSS Margin • CSS Padding • CSS Dimension • CSS Display • CSS Positioning • CSS Floating • CSS Navigation Bar • CSS Image Gallery • CSS Image Opacity • CSS Align 	<ul style="list-style-type: none"> • Transition-delay • Transition-duration • Transition-property, Transition-timing-function
<u>JAVASCRIPT</u>	
<u>INTRODUCTION</u>	<u>HANDLING EVENTS</u>
<ul style="list-style-type: none"> • Cross-checking fields • Displaying more informative errors • Verifying radio button selections • Setting one field with another field • Verifying email addresses 	<ul style="list-style-type: none"> • Responding to window events • Responding to mouse movements • Responding to mouse clicks • Responding to onBlur form events • Responding to onFocus form events • Responding to keyboard events
<u>WORKING WITH COOKIES</u>	<u>THE DOM, NODES, AND OBJECTS</u>
<ul style="list-style-type: none"> • Demystifying cookies • Writing a cookie • Reading a cookie • Displaying a cookie • Counting with cookies • Deleting cookies • Handling multiple cookies 	<ul style="list-style-type: none"> • Understanding the DOM • Adding nodes to the DOM • Deleting nodes from the DOM • Deleting specific nodes • Inserting nodes into the DOM • Replacing nodes in the DOM

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<ul style="list-style-type: none"> • Cookies in action 	
WORKING WITH DATES AND TIMES	REAL-WORLD APPLICATIONS OF JAVASCRIPT
<ul style="list-style-type: none"> • Displaying dates • Displaying times • Creating a countdown 	<ul style="list-style-type: none"> • Creating sliding menus • Creating pop-up menus • Creating slideshows with captions • Creating a stylesheet switcher

BOOTSTRAP	
INTRODUCTION TO BOOTSTRAP	BOOTSTRAP GRID
<ul style="list-style-type: none"> • What is Bootstrap Framework • Why Bootstrap • History of Bootstrap • Advantages of Bootstrap Framework • What is Responsive web page • How to remove Responsiveness • Major Features of Bootstrap • What is Mobile-First Strategy • Setting up Environment • How to apply Bootstrap to Applications 	<ul style="list-style-type: none"> • What is Bootstrap Grid • How to apply Bootstrap Grid • What is Container • What is Offset Column • How to Reordering Columns • Advantages of Bootstrap Grid • How to Display responsive Images • How to change class properties • How to use readymade themes • How to customise Bootstrap's components, Less variables, and jQuery plug-in. • What is Bootstrap Typography • How to use Typography • What are Bootstrap Tables • What is Bootstrap Form Layout • What is Bootstrap Button • How to display images in different styles like Circle shape etc • How to display text like muted and warning etc • What are Carets Classes • How to hide or show the text in Bootstrap
BOOTSTRAP COMPONENTS	BOOTSTRAP PLUG-INS
<ul style="list-style-type: none"> • What is Bootstrap Components • Why Bootstrap Components • Advantages of Bootstrap Components 	<ul style="list-style-type: none"> • What is Bootstrap Plug-Ins • Why Bootstrap Plug-Ins • How to use Bootstrap Plug-Ins • What is Transition Plug-in • What Modal Dialog Box

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<ul style="list-style-type: none"> • What are the different types of Bootstrap Components • What is Glyphicons Component • How to use Glyphicons Component • What is Bootstrap Dropdown Menu Component • What is Button Groups and Button Toolbar • How to use Button Groups and Button Toolbar • What are different Input Groups Components • What is Navigation Pills & Tabs Components • How to use Navigation Pills and Tabs Components • What is Navbar Component • How to build a Responsive Navbar • How to Add Forms and other controls to Navbar • How to Fix the position of navbar • What is Breadcrumb Component • What is Pagination Component • How to apply Pagination in Application • What is Labels / Badge Components • Why Media Objects Component • How to use Media Objects Component • What is Bootstrap List Group Component • What is Bootstrap Panel Component 	<ul style="list-style-type: none"> • What are the different Properties, Methods and Events of Modal Dialog Box • What is Scrollspy Plug-In • What is Tab Plug-in • How to use Tab Plug-in • What is Drop Down Plug-in • What is Tooltip Plug-in • How to use Button Plug-in • What are the different methods and events of Tooltip Plug-in • What is Popover Plug-in • What is alert and Button Plug-ins • What is Collapse Plug-in • What are different types of Properties, Methods and Events of Collapse Plug-in • What is Carousel Plug-in • What is Affix Plug-in
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<u>JQUERY</u>	
<u>INTRODUCTION</u>	<u>TRAVERSAL</u>
<ul style="list-style-type: none"> • jQuery Introduction • Install and Use jQuery Library • Un-Obstructive JavaScript • First jQuery Example • jQuery Syntax • How to escape a special characters 	<ul style="list-style-type: none"> • Traversal Functions
<u>SELECTORS</u>	<u>HTML MANIPULATION</u>
<ul style="list-style-type: none"> • Basic Selectors 	<ul style="list-style-type: none"> • Getting Setting values from elements • Handling attributes • Inserting New elements • Deleting/Removing elements • CSS manipulations • Dimensions • Positioning
<u>EFFECTS</u>	<u>EVENTS</u>
<ul style="list-style-type: none"> • Showing/Hiding elements • Sliding elements • Fading elements • Deleting animation elements • Custom animation 	<ul style="list-style-type: none"> • Working with Events
<u>AJAX AND JSON</u>	
<ul style="list-style-type: none"> • Ajax with jQuery • Load method • jQuery get and getJson methods • jQuery POST request • Retrieving js file • Helper methods 	

Back End Developer:- C, C++

<u>C</u>	
<u>C INTRODUCTION</u>	<u>'C' TOKENS</u>
<ul style="list-style-type: none"> • Types of Languages • Evolution of 'C' Language • Structure of a 'C' Program • 'C' Program development life cycle • Executing and Debugging a 'C' Program 	<ul style="list-style-type: none"> • Keywords and Identifiers • Operators • Constants • Variables • Data Types • Precedence of Operators • Scope and Lifetime of Variables
<u>CONTROL STATEMENT AND EXPRESSIONS</u>	<u>LOOPING</u>
<ul style="list-style-type: none"> • Decision Making using if statement • Types of if ...else block • Switch case Block • Arithmetic Expressions • Evaluation of Expressions • GOTO statement 	<ul style="list-style-type: none"> • Concept of Loop • For loop • While loop • Do while loop • Jumping in Loop • break and continue statement
<u>ARRAYS AND STRING</u>	<u>FUNCTIONS</u>
<ul style="list-style-type: none"> • Introduction of Array • One - D Array • Two - D Array • Multidimensional Array • Dynamic Arrays • Implementing String Variables • String handling Functions 	<ul style="list-style-type: none"> • Concept of Function • User-defined Function • System Defined Function • Types of parameter passing in a function
<u>POINTERS</u>	<u>STRUCTURE AND UNIONS</u>
<ul style="list-style-type: none"> • Need of Pointers • Types of Pointers • Pointer Expression • Arrays of Pointers • Pointers and Functions 	<ul style="list-style-type: none"> • Need of Structure • Implementing Structure Variable • Arrays of Structure • Structure within Structure • Introduction of Unions • Difference between Structure and Unions

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<u>FILE HANDLING USING 'C'</u>	<u>DYNAMIC MEMORY ALLOCATION</u>
<ul style="list-style-type: none">• Opening and Closing File• Input / Output operations on File• Random Access to Files• Command Line Arguments	<ul style="list-style-type: none">• Concept of Dynamic Allocation• Implementing Malloc and Calloc Functions• Releasing the free space
<u>STORAGE CLASSES AND PRE-PROCESSOR</u>	
<ul style="list-style-type: none">• Introduction of Storage Class• Types of Storage Classes	

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<ul style="list-style-type: none"> • Introduction of Pre-processor • Macro Substitution • File Inclusion 	
<u>C++</u>	
<u>C++ INTRODUCTION</u>	<u>INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING</u>
<ul style="list-style-type: none"> • What is C++? • Why Use C++ • Difference between C and C++ • C++ Syntax 	<ul style="list-style-type: none"> • Concept of OOP • Features of OOP • Structure of 'C++' program • Executing and Debugging a 'C++' Program
<u>'C++' TOKENS AND TYPE CASTING</u>	<u>CLASSES & OBJECTS</u>
<ul style="list-style-type: none"> • Keywords and Identifiers • Operators • Constants • Variables • Data Types • Precedence of Operators • Scope and Lifetime of Variables 	<ul style="list-style-type: none"> • Classes & Object Specifier • Defining data members and member functions • Array of objects • Managing console I/O • 'C++' stream classes • Formatted and unformatted console I/O • Usage of manipulators
<u>FUNCTION IN 'C++'</u>	<u>CONSTRUCTORS AND DESTRUCTOR</u>
<ul style="list-style-type: none"> • Call by reference, Return by reference • Function overloading and default arguments • Inline function • Static class members • Friend functions • Virtual Functions 	<ul style="list-style-type: none"> • Concept of Constructor • Types of Constructors • Memory allocation (new and delete) • Usage of destructor
<u>OPERATOR OVERLOADING</u>	<u>INHERITANCE</u>
<ul style="list-style-type: none"> • Overloading Unary and Binary operators • Overloading using the friend function 	<ul style="list-style-type: none"> • Types of inheritance • Virtual base classes and abstract base classes • Constructor and destructor in derived class

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WORKING WITH FILES	EXCEPTION HANDLING
<ul style="list-style-type: none">• File operations• File pointer and their manipulation• File updation with random access	<ul style="list-style-type: none">• Various Exception Handling classes• Implementing try and catch block• Use of throw keyword

Web Development/Back End Developer:- PHP, Laravel & My SQL

<u>PHP</u>	
<u>PHP INTRODUCTION</u>	<u>PHP BASIC</u>
<ul style="list-style-type: none"> • What is PHP? • What is a PHP File? • What Can PHP Do? • Why PHP? • What's new in PHP Versions • PHP Installation 	<ul style="list-style-type: none"> • Embedding PHP code on a page • Outputting dynamic text • The operational trail • Inserting code comments
<u>EXPLORING DATA TYPES</u>	<u>CONTROL STRUCTURES: LOGICAL EXPRESSIONS</u>
<ul style="list-style-type: none"> • Variables • Strings • String functions • Numbers Part One: Integers • Numbers part two: Floating points • Arrays • Associative arrays • Array functions • Booleans • NULL and empty • Type juggling and casting • Constants 	<ul style="list-style-type: none"> • If statements • Else and else if statements • Logical operators • Switch statements
<u>CONTROL STRUCTURES: LOOPS</u>	<u>USER-DEFINED FUNCTIONS</u>
<ul style="list-style-type: none"> • While loops • For loops • Foreach loops • Continue • Break • Understanding array pointers 	<ul style="list-style-type: none"> • Defining functions • Function arguments • Returning values from a function • Multiple return values • Scope and global variables • Setting default argument values
<u>DEBUGGING</u>	<u>BUILDING WEB PAGES WITH PHP</u>
<ul style="list-style-type: none"> • Common problems • Warnings and errors • Debugging and troubleshooting 	<ul style="list-style-type: none"> • Links and URLs • Using GET values • Encoding GET values • Encoding for HTML

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	<ul style="list-style-type: none"> • Including and requiring files • Modifying headers • Page redirection • Output Buffering
<u>WORKING WITH FORMS AND FORM DATA</u>	<u>WORKING WITH COOKIES AND SESSIONS</u>
<ul style="list-style-type: none"> • Building forms • Detecting form submissions • Single-page form processing • Validating form values • Problems with validation logic • Displaying validation errors • Custom validation functions • Single-page form with validations 	<ul style="list-style-type: none"> • Working with cookies • Setting cookie values • Reading cookie values • Unsetting cookie values • Working with sessions
<u>LARAVEL</u>	
<u>INTRODUCTION TO LARAVEL</u>	<u>LARAVEL ROUTING AND CONTROLLERS</u>
<ul style="list-style-type: none"> • What is Laravel and its features • Installing Laravel and setting up the development environment • Laravel project structure and directory layout • Composer package manager for Laravel 	<ul style="list-style-type: none"> • Defining routes and route parameters • Creating and organizing controllers • Handling HTTP requests and responses • Middleware for request processing • RESTful resource controllers
<u>LARAVEL VIEWS AND BLADE TEMPLATES</u>	<u>LARAVEL MODELS AND ELOQUENT ORM</u>
<ul style="list-style-type: none"> • Creating and rendering views • Working with Blade templates • Passing data to views • Layouts and master templates • Blade directives and control structures 	<ul style="list-style-type: none"> • Defining and using Eloquent models • Database migrations and schema design • Querying and retrieving data with Eloquent • Creating and updating records • Relationships in Eloquent (one-to-many, many-to-many, etc.)
<u>LARAVEL VALIDATION AND FORM</u>	<u>LARAVEL MIDDLEWARE AND</u>

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REQUESTS	AUTHENTICATION
<ul style="list-style-type: none"> Form validation in Laravel Validation rules and custom validation Creating and using form requests Handling form submission and errors AJAX form validation and submission 	<ul style="list-style-type: none"> Understanding middleware in Laravel Creating custom middleware Authentication and user management Role-based access control (RBAC) Social media authentication
LARAVEL DATABASE RELATIONSHIPS	API DEVELOPMENT WITH LARAVEL
<ul style="list-style-type: none"> One-to-one, one-to-many, and many-to-many relationships Eager loading and lazy loading Polymorphic relationships Querying related data Advanced relationship techniques 	<ul style="list-style-type: none"> Building RESTful APIs with Laravel API authentication and token-based security API versioning and rate limiting Testing and documenting APIs Consuming external APIs in Laravel
LARAVEL MIDDLEWARE AND AUTHENTICATION	LARAVEL TESTING AND DEBUGGING
<ul style="list-style-type: none"> Understanding middleware in Laravel Creating custom middleware Authentication and user management Role-based access control (RBAC) Social media authentication 	<ul style="list-style-type: none"> Writing unit tests and feature tests PHP Unit integration for Laravel Test-driven development (TDD) practices Debugging techniques and tools Profiling and optimization
LARAVEL DEPLOYMENT AND SECURITY	
<ul style="list-style-type: none"> Preparing Laravel applications for production Deployment strategies (e.g., shared hosting, VPS, cloud) Security best practices for Laravel Handling security vulnerabilities and attacks 	

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<ul style="list-style-type: none"> • Backup and disaster recovery 	
MYSQL	
MYSQL BASICS	USING PHP TO ACCESS MYSQL
<ul style="list-style-type: none"> • MySQL introduction • Creating a database • Creating a database table • CRUD in MySQL • Populating a MySQL database • Relational database tables • Populating the relational table 	<ul style="list-style-type: none"> • Database APIs in PHP • Connecting to MySQL with PHP • Retrieving data from MySQL • Working with retrieved data • Creating records with PHP • Updating and deleting records with PHP • SQL injection • Escaping strings for MySQL • Introducing prepared statements
BUILDING A CONTENT MANAGEMENT SYSTEM (CMS)	USING SITE NAVIGATION TO CHOOSE CONTENT
<ul style="list-style-type: none"> • Blueprinting the application • Building the CMS database • Establishing your work area • Creating and styling the first page • Making page assets reusable • Connecting the application to the database 	<ul style="list-style-type: none"> • Adding pages to the navigation subjects • Refactoring the navigation • Selecting pages from the navigation • Highlighting the current page • Moving the navigation to a function
APPLICATION CRUD	BUILDING THE PUBLIC AREA
<ul style="list-style-type: none"> • Finding a subject in the database • Refactoring the page selection • Creating a new subject form • Processing form values and adding subjects • Passing data in the session • Validating form values • Creating an edit subject form • Using single-page submission • Deleting a subject • Cleaning up • Assignment: Pages CRUD • Assignment results: Pages 	<ul style="list-style-type: none"> • The public appearance • Using a context for conditional code • Adding a default subject behaviour • The public content area • Protecting page visibility

CRUD	
<u>REGULATING PAGE ACCESS</u>	<u>ADVANCED PHP TECHNIQUES</u>
<ul style="list-style-type: none"> User authentication overview Admin CRUD Encrypting passwords Salting passwords Adding password encryption to CMS New PHP password functions Creating a login system Checking for authorization Creating a logout page 	<ul style="list-style-type: none"> Using variable variables Applying more array functions Building dates and times: Epoch/Unix Formatting dates and times: Strings and SQL Setting server and request variables Establishing global and static variable scope Making a reference assignment Using references as function arguments Using references as function return values
<u>INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING (OOP)</u>	<u>OOP IN PRACTICE</u>
<ul style="list-style-type: none"> Introducing the concept and basics of OOP Defining classes Defining class methods Instantiating a class Referencing an instance Defining class properties 	<ul style="list-style-type: none"> Understanding class inheritance Setting access modifiers Using setters and getters Working with the static modifier Reviewing the scope resolution operator Referencing the Parent class Using constructors and destructors Cloning objects Comparing objects
<u>WORKING WITH FILES AND DIRECTORIES</u>	<u>SENDING EMAILS</u>
<ul style="list-style-type: none"> File system basics Understanding file permissions Setting file permissions PHP permissions Accessing files Writing to files Deleting files Examining file details Working with directories Viewing directory content 	<ul style="list-style-type: none"> Configuring PHP for email Sending email with mail() Using headers Reviewing SMTP Using PHPMailer

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Back End Developer:- Python, Django

<u>PYTHON</u>	
<u>INTRODUCTION TO PYTHON</u>	<u>BEGINNING PYTHON BASICS</u>
<ul style="list-style-type: none"> • What can Python do? • Why Python? • Good to know • Python Syntax compared to other programming languages • Python Install 	<ul style="list-style-type: none"> • The print statement, Comments • Python Data Structures & Data Types • String Operations in Python • Simple Input & Output • Simple Output Formatting • Operators in python
<u>PYTHON PROGRAM FLOW</u>	<u>FUNCTIONS& MODULES</u>
<ul style="list-style-type: none"> • Indentation • The If statement and its' related statement • An example with if and it's related statement • The while loop, The for loop • The range statement • Break & Continue • Assert • Examples for looping 	<ul style="list-style-type: none"> • Create your own functions • Functions Parameters • Variable Arguments • Scope of a Function • Function Documentations • Lambda Functions & map • n Exercise with functions • Create a Module • Standard Modules
<u>EXCEPTIONS HANDLING</u>	<u>FILE HANDLING</u>
<ul style="list-style-type: none"> • Errors • Exception handling with try • handling Multiple Exceptions • Writing your own Exception 	<ul style="list-style-type: none"> • File handling Modes • Reading Files • Writing & Appending to Files • Handling File Exceptions • The with statement
<u>CLASSES IN PYTHON</u>	<u>GENERATORS AND ITERATORS</u>
<ul style="list-style-type: none"> • New Style Classes • Creating Classes • Instance Methods • Inheritance • Polymorphism • Exception Classes & Custom Exceptions 	<ul style="list-style-type: none"> • Iterators • Generators • The Functions any and all • With Statement • Data Compression
<u>DATA STRUCTURES</u>	<u>COLLECTIONS</u>

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<ul style="list-style-type: none"> List Comprehensions Nested List Comprehensions Dictionary Comprehensions Functions Default Parameters Variable Arguments Specialized Sorts 	<ul style="list-style-type: none"> namedtuple() deque ChainMap Counter OrderedDict defaultdict UserDict UserList UserString
<u>WRITING GUIS IN PYTHON (TKINTER)</u>	<u>PYTHON SQL DATABASE ACCESS</u>
<ul style="list-style-type: none"> Introduction Components and Events An Example GUI The root Component Adding a Button Entry Widgets Text Widgets Check buttons 	<ul style="list-style-type: none"> Introduction, Installation DB Connection Creating DB Table INSERT, READ, UPDATE, DELETE operations COMMIT & ROLLBACK operation handling Errors
<u>NETWORK PROGRAMMING</u>	<u>DATE AND TIME</u>
<ul style="list-style-type: none"> Introduction A Daytime Server Clients and Servers The Client Program The Server Program 	<ul style="list-style-type: none"> sleep Program execution time more methods on date/time
<u>FEW MORE TOPICS IN-DETAILED</u>	<u>REGULAR EXPRESSION</u>
<ul style="list-style-type: none"> Filter, Map, Reduce Decorators Frozen set Collections 	<ul style="list-style-type: none"> Split Working with special characters, date, emails Quantifiers Match and find all character sequence and substitute Search method
<u>THREADS ESSENTIAL</u>	<u>ACCESSING API ESSENTIAL</u>
<ul style="list-style-type: none"> Class and threads Multi-threading Synchronization 	<ul style="list-style-type: none"> Introduction Facebook Messenger Open weather

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<ul style="list-style-type: none">• Treads Life cycle• use cases	
<u>DJANGO</u>	
<ul style="list-style-type: none">• Django Overview• Django Installation• Creating a Project• Usage of Project In-depth Discussion• Creating an Application• Understanding Folder Structure• Creating a Hello World Page• Database and Views• Static Files and Forms• API and Security	

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