IT SHARE
JUST CHANGE

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Full-Stack Developer

140 HOURS

WEBMASTER FULLSTACK

Pie chart legend: livewire 4hr, HTML/CSS/Bootstrap 24hr, SASS 12hr, JavaScript 12hr, React JS 28hr, PHP / My SQL /mvc 32hr, Laravel 7.8+ 28hr

What is Full Stack?

- Full stack developers are computer programmers who are proficient in both front and back end coding. Their primary responsibilities include designing user interactions on websites, developing servers, and databases for website functionality, and coding for mobile platforms.
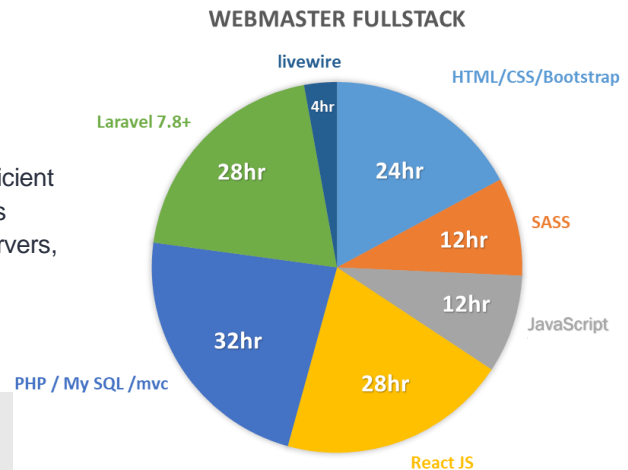
PART1 :HTML/CSS/Boostrap

How the web works

- The internet versus the Web
- Serving Up your information
- A word about browsers
- Web Page Addresses (URLs)
- The Anatomy of a Web Page

Some Big Concepts You Need to Know

- A dizzying multitude of Devices
- Sticking with the standards
- Responsive Web Design
- One web for All (Accessibility)
- Site Performance
- Creating a Simple web page, Step by step
- Launch Text Editor
- Start with Content
- Give the Document Structure
- Identify Text Elements
- Add an Image
- Change the Look with a Style Sheet
- Validating Your Documents
- Marking up Text

- Paragraphs
- Heading
- Lists
- More Content Elements
- Organizing Page Content
- The Inline Element Roundup
- Generic Elements (div and span)
- Some special characters
- Putting It all Together

Adding Links

- The href Attribute
- Linking to Pages on the Web
- Linking within Your Own Site
- Targeting a New Browser window
- Mail Links
- Telephone Links

Adding Images

- First, a word on Image Formats
- The img Element
- A Window in a window (ifram)

Basic Table Markup

- How Tables Are Used
- Minimal Table Structure
- Table Headers
- Spanning Cells
- Table Accessibility
- Wrapping Up Tables

Forms

- How Forms Work
- The form Element
- Variables and Content
- The Great Form Control Round-up
- Form Accessibility Features
- Form Layout and Design

Cascading Style Sheets

- The Benefits of CSS

- How Style Sheets Work
- The Big Concepts
- Moving Forward with CSS

Formatting Text Page

- The Font Properties
- Changing Text Color
- A Few More Selector Types
- Text Line Adjustments
- Underlines and Other "Decorations"
- Changing Capitalization
- Spaced Out
- Text Shadow
- Changing Lists Bullets and Numbers

Colors and Backgrounds

- Specifying Color Values
- Foreground Color
- Background Color
- Playing with Opacity
- Introducing…. Pseudo-class Selectors
- Pseudo-element Selectors
- Attribute Selectors ▪ Background Images
- Like a Rainbow (Gradients)
- The Shorthand background Property
- Finally, External Style Sheets

Thinking inside the Box

- The Element Box
- Specifying Box Dimensions Padding
- Borders
- Margins
- Assigning Display Roles
- Adding Drop Shadows to Boxes
- The Box Model in Review

Floating and Positioning

- Normal Flow
- Floating
- Positioning Basics

- Relative Positioning
- Absolute Positioning
- Fixed Positioning

Page Layout with CSS

- Page Layout Strategies
- Page Layout Techniques
- Multicolumn Layouts Using Floats
- Positioned Layout
- Top-to-Bottom Column Backgrounds

CSS Techniques

- A Clean Slate (CSS Reset)
- Image Replacement Techniques
- CSS Sprites
- Styling Forms
- Styling Tables
- Wrapping Up Style Sheets

Web Graphics Basics

- Image Sources
- Meet the Formats
- Image Size and Resolution
- Working with Transparency
- PNG-8 "Alpha" Transparency
- Summing Up Images

Learn and Mean Web Graphics

- General Optimization Strategies
- Optimizing GIFs
- Optimizing JPEGs
- Optimizing PNGs
- Carousel
- TypeaheadUsing Bootstrap
- Customizing Bootstrap
- Built with Bootstrap

PART 2:SASS

Very Short Intro
- CSS limitations
- Less vs Sass
- Community and improvment

CSS Extensions
- Nested Rules
- Referencing Parent Selectors: &
- Nested Properties
- Placeholder Selectors: %foo

SassScript
- Interactive Shell
- Variables: $
- Data Types
- Operations
- Parentheses
- Functions
- Interpolation: #{}
- & in SassScript
- Variable Defaults: !default

Rules and Directives
- @import
- @media
- @extend
- @at-root
- @debug
- @warn
- @error

Control Directives & Expressions
- if()
- @if
- @for
- @each
- @while

Mixin Directives
- Defining a Mixin: @mixin
- Including a Mixin: @include

- Arguments
- Passing Content Blocks to a Mixin

Function Directives Output Style

- nested
- expanded
- compact
- compressed

Extending Sass

- Defining Custom Sass Functions
- Cache Stores
- Custom Importers

PART 2: JavaScript

- Introduction to web development and JavaScript
- How to create a JavaScript application
- How to test and debug a JavaScript application
- How to get input and displays output
- How to work with numbers, strings, dates
- How to code control statements
- How to create and use array
- How to create and use function
- How to create and use objects
- How to use regular expressions, handle exceptions, and
- validate data
- Object Oriented programming
- Object
- Classes
- Inheritance
- Polymorphism

PART 3: React JS

Welcome to React

- Obstacles and Roadblocks
- React's Future
- Working with Files
- React Developer Tools

- Installation Node JS

Emerging JavaScript

- Declaring Variable in ES6
- Arrow function
- Transpiling ES6
- ES6 Objects and Arrays
- Promises
- Classes

Pure React

- Page Setup
- The Virtual DOM
- React Elements
- React DOM
- Children
- Constructing Elements with Data
- React Components
- DOM rendering

React with JSX

- React Elements as JSX
- Babel
- Intro to Webpack

Props, State and the Component Tree

- Property Validation
- Refs
- React State Management
- State within component Tree

Enhancing Components

- Component Lifecycle
- JavaScript Library Integration
- Higher-Order Components
- Flux

Redux

- State
- Actions
- Reducers
- The Store

- Action creators
- Middleware

React Redux

- Explicitly Passing the Store
- Passing Store via Context
- Presentation Versus Container Components
- The React Redux Provider
- React Redux Connect

React Router

- Incorporating the Router
- Nesting Routes
- Route Parameters

React on the Server

PART 4: PHP-MYSQL

Introduction to Web Development with PHP

- The architecture of a web application
- The Product Discount application
- How to edit and test a PHP application How to use
- NetBeans to develop a PHP application

How to code a PHP application

- Basic PHP skills
- How to get data from a request
- How to work with data
- The Product Discount application
- How to code control statements
- The Future Value application How to use the PHP Documentation

Introduction to relational database with MySQL

- An introduction to relational database
- The SQL statements for data manipulation
- An introduction to MySQL How to use phpMyAdmin

How to use PHP with a MySQL database

- PHP for working with MySQL
- How to get data from a result set
- The Product Viewer application

- The Product Manager application

How to Use the MVC pattern to organize your code
- How to use the MVC pattern
- The Product Manager application
- The Product Catalog application

How to test and debug a PHP application
- An introduction to testing and debugging
- How to debug with xDebug and Netbeans

How to work with form data
- How to get data from a form How
- to display data on a web page

How to code control statements
- How to code conditional expressions
- How to code the selection structures
- How to code the iteration structures

How to work with strings and numbers
- How to work with strings
- How to work with numbers
- Other skills for working with strings and numbers

How to work with dates
- How to use timestamps to work with dates
- How to use objects to work with dates

How to create and use arrays
- How to create and use an array
- How to create and use an associative array
- How to use functions to work with arrays
- How to work with array of arrays The Task List Manager application

How to work with cookies and sessions
- How to work with cookies
- How to work with sessions The Shopping Cart application

How to create and use functions
- Basic skills for working with functions
- How to create and use namespaces
- Advanced skills for working with functions
- The Shopping Cart application

How to create and use objects
- How to create and use classes
- How to code class constants, properties, and methods
- The object-oriented Product Manager application
- Additional skills for working with objects
- How to work with inheritance

How to use regular expressions
- handle exceptions, and validate data
- How to use regular expressions
- How to handle exceptions The Registration application

How to design a database
- How to design a data structure
- How to normalize a data structure
- A database design tool

How to use SQL to create a MySQL database
- How to work with databases
- How to work with tables
- How to work with indexes
- How to work with users and privileges
- Other skills for creating a databases

How to use SQL to work with a MySQL database
- How to select data from a single table
- How to select data from multiple tables
- How to code summary queries
- How to code sub-queries
- How to insert, update, and delete rows

PART 5: Laravel

Architecture Foundation
- Service Providers
- Service Containers
- Facades
- Request Life Cycle
- Application Structure

Setup & Installation
- Requirement

- Installation
- Web Server Configuration
- Project Structure

Basic Routing

- Basic Routing
- Route Parameters

Responses

- Views
- Redirects
- Custom Responses

Middleware

- Introduction
- Defining Middleware
- Registering Middleware

Controllers

- Introduction
- Basic Controllers

Controller Middleware

- Implicit Controllers
- RESTful Resource Controllers

Blade Templates

- Creating Templates
- PHP Output
- Control Structures
- Templates
- Template Inheritance

Advance Routing Named Routes

- Secure Routes
- Parameter Constraints
- Route Prefixing
- Domain Routing
- URL Generation
- The Current URL
- Generating Framework URLS
- Asset URLs
- Generation Shortcuts

Request Data

- Retrieval
- Old Input
- Upload Files
- Cookies

Forms

- Forms
- Fields
- Buttons
- Security

Validation

- Validation
- Controller Validation
- Form Request Validation
- Working with Error Messages
- Error Messages and Views
- Available Validation Rules
- Custom Error Messages
- Custom Validation Rules
- Basic Database Usage
- Configuration
- Read/Write Connections
- Running Queries
- Database Transaction
- Accessing Connections

Query Builder

- Introduction
- Selects
- Join
- DML Queries

Schema Builder

- Creating Tables
- Column Types
- Special Column Types
- Column Modifiers
- Updating Tables Dropping Tables

- Schema Tricks 16 Migrations
- Basic Concept
- Creating Migration
- Rolling Back
- Migration Tricks

Eloquent ORM
- Creating new models
- Reading Existing Models
- Updating Existing Models
- Deleting Existing Models

Eloquent Queries
- Preparation
- Eloquent to string
- Query Structure
- Magic Queries
- Query Scopes

Eloquent Relationship
- Relationships
- Implementing Relationship
- Relating and Querying

20 Authentication
21 Authorization
- Three ways to use PHP to work with MySQL
- How to work with PDO

A database-driven web site
- How to work with large text columns

How to create secure web sites
- How to use a secure connection
- How to use authentication How to work with encrypted data

How to send email and access other web sites
- How to send email
- How to get data from other servers

PART 6: LiveWare

- Introduction
- QuickStart
- How it works
- Comments System (Wire click event)
- Properties and Actions
- Mount Event, fetch from DB
- Store Comment with Livewire
- Real-Time Validation
- Passing Data to component
- Using Flash Messages
- Pagination
- Custom Pagination Links
- Image Uploading
- Store Image using Intervention
- Comment of tickets
- SPA using Turbolinks
- Register Component/Page
- Register User
- Login and Logout
- Using Middleware