

# **Maharaja Ranjit Singh Punjab Technical University, Bathinda**

## **(Department of Computational Science)**



### **Web Development**

**Institute/Industrial Training and Project Presentation**  
**(Project on QRcode) Master of Computer Application**

Submitted To:  
Prof. Sanjay Bhatnagar  
Dept. of Computational Science  
MRSPTU, Bathinda

Submitted By:

MD IBRAN NADAF  
MCA 3rd Semester  
Roll No: 220240012

## Training Details:

- **Topic:** Web Development
- **Mode of Training:** Online
- **Platform:** Internshala Online Training
- **Start Date:** 1<sup>st</sup> June 2023
- **End Date:** 7<sup>th</sup> July2023
- **Number of Hours:** 40
- **Marks Obtained:** 100%

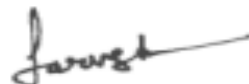
# Certificate of Training

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**MD IBRAN NADAF**

from Maharaja Ranjit Singh Punjab Technical University has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

We wish MD IBRAN all the best for future endeavours.



Sarvesh Agarwal  
FOUNDER & CEO, INTERNSHALA

Date of certification: 2023-07-02

Certificate no. : crt0ulpeyg4

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# CERTIFICATE

This is to certify that

Ms./Mr. MD IBRAN NADAF

Son/Daughter of MD KALAM NADAF Student ID CAN\_25573259

has successfully completed the WEB DEVELOPMENT Course  
with Grade B from SCHOLIVERSE EDUCARE PRIVATE LIMITED

Date of Issuance: 2nd August 2023

Certificate ID: 3cf0b4upuv479dft



Issued by



**Sarvesh Madhu Agrawal**  
Founder & CEO  
SCHOLIVERSE EDUCARE  
PRIVATE LIMITED

This is a System-generated Certificate. Assessment and Grading of the Candidate is provided/facilitated solely by the respective training provider based on its evaluation parameters.

# Welcome to **Web Development**



# What is Web Development

- It is the process of developing a web site which includes functionality creation and usability testing for that website.

## What is website and how does it work?

- A website is a combination of different web pages linked together in a certain fashion according to the designer's will and organizational need served through the same domain name server. Website is typically written in HTML and hosted on single web server for its access through network.
- Each website is provided with a unique uniform resource locator (URL) and accessed through the Hypertext transfer protocol (HTTP) responsible for making communication possible between client machine and the server by the application of different browsers.
- The URLs of the Web Pages are responsible for organizing website into a hierarchy and the hyperlinks between them controls how the reader perceives the overall structure and flow of traffic between the different parts of a website.

# Web Page

- A web page is a document which is commonly written in HTML that is viewed and translated by a web browser. A web page can be identified by entering an URL.
- A web page may contain text, graphics, and hyperlinks to other web pages and files.
- A Web page can be of:
  - Static type or
  - Dynamic type
- **Static Web Page:** Static Web pages contain the same prebuilt content each time the page is loaded. Standard HTML pages are static Web pages. They contain HTML code, which defines the structure and content of the Web page. Each time an HTML page is loaded, it looks the same.
- **Dynamic Web Page:** Other types of Web pages, such as PHP, ASP, and JSP pages are dynamic Web pages. These pages contain "server-side" code, which allows the server to generate unique content each time the page is loaded.

Web Development can be typically divided into two classes/Parts:

- ▶ Front-End Development

- ▶ Back-End Development

- Front-end Development: It is the process of creating the layout of a website. Its the part that the users see and interact with. Its typically coded using HTML/CSS/Javascript. There are also a few tools and frameworks that can be used, like Bootstrap and Angular.js.

- Back-End Development: It is the creation of the functional part of a website. Its what makes the website functional. Another part of the Backend development is interacting with the Database. Some of the most famous Backend languages are PHP/Java/Python/Perl. There are also a few frameworks such Ruby On Rails/Django/Node.js..



# Technologies Learnt

Technologies I have Learnt so far in this training are:

- HTML
- CSS
- Bootstrap
- SQL
- PHP

# HTML

- HTML is an acronym which stands for Hyper Text Markup Language which is used for creating web pages and web applications.
- HTML describes the structure of a Web page.
- HTML consists of a series of elements.
- HTML elements tell the browser how to display the content.
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.
- A simple HTML Document:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>My First Heading</h1>
    <p>My first paragraph.</p>
  </body>
</html>
```

- CSS stands for Cascading Style Sheets.
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media.
- CSS is used to define styles for our web pages, including the design, layout and variations in display for different devices and screen sizes.
- The word cascading means that a style applied to a parent element will also apply to all children elements within the parent. So, if we set the color of the body text to "blue", all headings, paragraphs, and other text elements within the body will also get the same color (unless we specify something else).
- CSS can be added to HTML documents in 3 ways:
  - Inline - by using the style attribute inside HTML elements.
  - External-by using a link element to link to an external CSS file
  - Internal - by using a <style> element in the <head> section.

# Bootstrap

- Bootstrap is a free front-end framework for faster and easier web development.
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins.
- Bootstrap also gives us the ability to easily create responsive designs.
- Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.
- Advantages of Bootstrap:
  - Easy to use
  - Responsive features
  - Mobile-first approach
  - Browser compatibility

# SQL

- SQL stands for Structured Query Language. It is designed for managing data in a relational database management system (RDBMS).
- SQL is a database language, it is used for database creation, deletion, fetching rows, and modifying rows, etc. SQL is based on relational algebra and tuple relational calculus.
- All DBMS like MySQL, Oracle, MS Access, Sybase, Informix, PostgreSQL, and SQL Server use SQL as standard database language. SQL is just a query language; it is not a database. To perform SQL queries, we need to install any database, for example, Oracle, MySQL, MongoDB, PostGre SQL, SQL Server, DB2, etc.
- With SQL, we can query our database in several ways, using English-like statements.
- It allows the user to describe and define the data in the database and manipulate it when needed.
- It allows the user to create a view, stored procedure, function in a database.▶
- It allows the user to set permission on tables, procedures, and views.

## Project Details:

- **Project Name** : QRcode
- **Language Used** : HTML,CSS & Javascript
- **User Interface Design** : HTML,CSS
- **Web Browser** : Google

# Project Description

- In this Project I made a QRcode scanning .
- This Consist of HTML,CSS and Bootstrap.
- The HTML & CSS part of code decides how the website looks, While the css provides a collection of syntax for a template designs.
- The 4 main pages that I have design for the website are:
  - Index.html
  - Contact.html
  - Login.html
  - About.html







# Thank You!

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