Web Development Club!

Department of Computer Science and Engineering

DSCE, Bengaluru-78

# OVERVIEW & PURPOSE

To engage and enable interested students to learn basic and advanced concepts of web designing. Recognize best talent, and take it forward with the development of projects.

# EDUCATION STANDARDS

1. Student of 2nd or 3rd year from Computer Science department.
2. Interested in design and related fields.
3. Willing to learn from peers and do self-learning.
4. Interested in learning how websites are developed behind the scenes.

# OBJECTIVES

1. Be familiar with latest design aspects.
2. Be familiar with the latest developmental tools.
3. Be capable of creating professional looking websites.
4. Create a sustainable club environment, where students take more initiatives.
5. Future Projects.

# MATERIALS NEEDED

1. Laptop with any latest web browser.
2. Projector system and internet access.

# VERIFICATION

*Steps to check for student understanding*

1. Group projects
2. Assignments

# ACTIVITY

* *DESIGNING*

*An activity which is used to test the student’s designing skills and creativity levels.*

* *GROUP Activity*

*A small activity to improve the group bonding and understanding, among members in the club.*

* *GROUP project*

*Each group (not more than 3 members per group) gets to choose a topic and create a webpage (front end).*

* *DEVELOPMENT*

*An activity which is used to test the student’s development skills and capability.*

COURSE

We have planned to split the students into two different tracks, one for the new members and another for the existing members.

Initially, we are going to address them together.

1. **Syllabus planned for the Common Class:**

## Introduction to the Internet

* + What happens when you access a website (a walkthrough from the browser’s perspective)
  + Basic server-client architecture
  + URL, DNS, IP, Protocols
  + Quiz

## Interaction with Industrial Professional Aluminis

* + Students will interact with Web development Industry Professionals to get a clarity on the path to success in this field.

**2. Syllabus planned for the New Members considering they are beginners:**

## Basics that go into a webapp (focus on front-end)

* + HTML (structure and static content)
  + CSS (styling your webpage)
  + Bootstrap (CSS Framework)
  + JS (adding interactivity)
  + MongoDB ( A NoSQL Database )
  + Basic server setup
  + Mini project

## Design

* + Design principles
  + Designing beyond websites

**3. Syllabus planned for the Current Members of Web Dev Club:**

## Crash Course on Basics of webapp

* + HTML, CSS

## Basic + Advanced JavaScript ES6+

* + The Latest version of Javascript

## MongoDB Crash Course

## NodeJS from scratch

* + A modern Backend Library built on JavaScript

# Other Major Perks

1. Workshop on React - a modern Front-end Framework.
2. Workshop on Advanced NodeJS
3. Workshop on Bootstrap CSS.
4. Job Search on Web Development.
5. Resume Templating.
6. Design Elements.

**Plan**

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| **WEEK** | **Topics** |
| Week 1` | Basic server-client architecture  URL, DNS, IP, Protocols,  Interaction with Industry experts |
| Week 2 | **New Members:**  HTML Full  **Existing Members:**  HTML , CSS , Bootstrap Crash Course |
| Week 3 | **New Members:**  Complete CSS with Bootstrap  **Existing Members:**  JavaScript |
| Week 4 | **New Members:**  JavaScript  **Existing Members:**  JavaScript , NodeJS |
| Week 5 | **New Members:**  MongoDB  **Existing Members:**  MongoDB |
| Week 6 | Mini Project Topic Discussions  Assigning Groups  Workshops |