# CS489: Applied Software Development

### Lesson 8:

## Full-Stack Web Application Development

### Wholeness

- Full-stack web application includes both Backend and Frontend.
- The Frontend of a Web Application can be built using common web technologies such as HTML, CSS, JavaScript and frameworks/tools such as Angular, React, Vue etc.
- Science of Consciousness: Action leads to Achievement. *Achievement leads to Fulfillment*.

## HTML

- HTML stands for HyperText Markup Language
- It is the main declarative language for building web pages that make-up the User Interface of a web application
- HTML Reference Guide:

https://developer.mozilla.org/en-US/docs/Web/HTML

## CSS

- CSS stands for Cascading Style Sheets
- It is the main stylesheet language for describing the presentation of contents on a web page, expressing how elements should be rendered.
- CSS Reference Guide:

https://developer.mozilla.org/en-US/docs/Web/CSS

## JavaScript

- JavaScript is a light-weight, JIT-compiled programming language, with support for functional programming
- Almost all Web Browsers have a built-in runtime execution engine/environment for JavaScript language code embedded in web pages.
- JavaScript Reference Guide: <u>https://developer.mozilla.org/en-</u> US/docs/Web/JavaScript

## Thymeleaf

- Thymeleaf is a server-side Java UI template engine for Web Application development
- It can be used for building dynamic web pages for web applications based on the Spring Web MVC framework.
- Thymeleaf Reference Guide:
  - https://www.thymeleaf.org/

### Welcome to the City Library online



#### **Top Page-turners**

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#### **Our Locations**

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### Demo

Implementing a Full-Stack Web Application using Spring Web MVC framework

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