

TY. B. Tech. (Sem-II)

CS3215 : Web Technology

Assignment No: 6- Develop a website using toggle able or dynamic tabs or pills with bootstrap and JQuery

<u>Roll. No.</u>	<u>Gr. No.</u>	<u>Div</u>	<u>Batch</u>	<u>Name</u>
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Experiment Number: 06

Theory:

Bootstrap Tabs and Pills

Menus

Most web pages have some kind of a menu.

In HTML, a menu is often defined in an unordered list (and styled afterwards), like this:

```
<ul>
  <li><a href="#">Home</a></li>
  <li><a href="#">Menu 1</a></li>
  <li><a href="#">Menu 2</a></li>
  <li><a href="#">Menu 3</a></li>
</ul>
```

If you want to create a horizontal menu of the list above, add the .list-inline class to :

```
<ul class="list-inline">
  abs
  Home
  Menu 1
  Menu 2
  Menu 3
```

Tabs are created with <ul class="nav nav-tabs">:

Tip: Also mark the current page with <li class="active">.

The following example creates navigation tabs:

Example

```
<ul class="nav nav-tabs">
  <li class="active"><a href="#">Home</a></li>
  <li><a href="#">Menu 1</a></li>
  <li><a href="#">Menu 2</a></li>
  <li><a href="#">Menu 3</a></li>
</ul>
```

Tabs With Dropdown Menu

Home

Menu 1

Menu 2

Menu 3

Tabs can also hold dropdown menus.

The following example adds a dropdown menu to "Menu 1":

Example

```
<ul class="nav nav-tabs">
  <li class="active"><a href="#">Home</a></li>
  <li class="dropdown">
    <a class="dropdown-toggle" data-toggle="dropdown" href="#">Menu 1
    <span class="caret"></span></a>
    <ul class="dropdown-menu">
      <li><a href="#">Submenu 1-1</a></li>
      <li><a href="#">Submenu 1-2</a></li>
      <li><a href="#">Submenu 1-3</a></li>
    </ul>
  </li>
  <li><a href="#">Menu 2</a></li>
  <li><a href="#">Menu 3</a></li>
</ul>
```

Pills

Home

Menu 1

Menu 2

Menu 3

Pills are created with `<ul class="nav nav-pills">`. Also mark the current page with `<li class="active">`:

Example

```
<ul class="nav nav-pills">
  <li class="active"><a href="#">Home</a></li>
  <li><a href="#">Menu 1</a></li>
  <li><a href="#">Menu 2</a></li>
  <li><a href="#">Menu 3</a></li>
</ul>
```

Code:

Pills.html

<!DOCTYPE html>

<head>

<link rel="stylesheet" type="text/css" href="pills.css">

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="wrapper">

<div class="video-background">

<video autoplay muted loop poster="video.mp4" id="bgvid">

<source src="video.mp4" type="video/mp4">

</video>

<div class="video-overlay"></div>

<div class="video-content">

<div class="container">

<div class="row">

<div class="col-md-6 offset-md-3">

<div class="tab-wrapper">

<ul class="nav nav-pills mb-3" id="pills-tab" role="tablist">

<li class="nav-item">

HOME

<li class="nav-item">

CLOUD_COMPUTING

<li class="nav-item">

WEB_TECHNOLOGY

<div class="tab-content" id="pills-tabContent">

<div class="tab-pane fade show active" id="pills-home" role="tabpanel" aria-labelledby="pills-home-tab">

<h1>TANAYA NAIK</h1>

<p><i>Vision of the Institution:</i></i>

"To be globally acclaimed Institute in Technical Education and Research for holistic Socio-economic development".

<i>Mission of the Institution:</i></i>

 • To ensure that 100% students are employable and employed in Industry, Higher Studies, become Entrepreneurs, Civil / Defense Services / Govt. Jobs and other areas like Sports and Theatre.

 • To strengthen Academic Practices in terms of Curriculum, Pedagogy, Assessment and Faculty Competence.

 • Promote Research Culture among Students and Faculty through Projects and Consultancy.

 • To make students Socially Responsible Citizen.

This is the TY-CS-D Syllabus.

</p>

</div>

<div class="tab-pane fade" id="pills-profile" role="tabpanel" aria-labelledby="pills-profile-tab">

<h1>CLOUD_COMPUTING</h1>

<p>Unit-I Introduction to Cloud Computing

[CO1 PO1, PO2, PO5 – CO Strength - 2,1,1]

Recent trends in computing, Cluster computing, Distributed computing ,Evolution of cloud

computing, Cloud versus traditional architecture, Cloud Computing Architecture, Google Cloud

architecture, Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service

(SaaS), Public cloud, Private cloud, Hybrid cloud, Community cloud [4 Hrs]

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<p>Unit-II Virtualization

[CO2 PO1, PO2, PO3, PO4, PO5- CO Strength -2,2,1,1,1]

Introduction to virtualization, Different approaches to virtualization, Hypervisors, Machine Image,

Virtual Machine (VM), Compute options in the cloud, Exploring IaaS with Compute Engine,

Configuring elastic apps with auto scaling, Basics of virtualization and implementation challenges.

System virtualization technologies-architectures and internals. KVM, Xen, VMware.

Memory virtualization-virtualization techniques, ballooning, deduplication and sharing. Network

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and storage virtualization, Virtual machine migration and replication techniques pre-copy and postcopy techniques, applicability to system availability. [6 Hrs]

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<p>

Unit-III Cloud Services

[CO3] [PO1, PO2, PO3, PO4, PO5, PO7, PO8, PSO4 – Strength - 3,2,2,2,2,3,3,2]

Service Oriented Architecture (SOA), Web services, Web 2.0, Web OS. Introduction to IaaS, PaaS, SaaS. Cloud Platform and Management, Exploring PaaS with App Engine, Event driven programs with Cloud Functions, Containerizing and orchestrating apps with Google Kubernetes Engine Software as a Service (SaaS) Docker flow, orchestration with Docker, dynamic linking and legacy linking of containers. The GCP Console, understanding projects, Billing in GCP, Install and configure Cloud SDK, Use Cloud Shell, GCP APIs. [4 Hrs]

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SECTION-II

Unit-IV Cloud Storage

[CO4 PO1, PO2, PO3, PO4, PO5, PO6, PO9- Strength 3,2,2,2,3,3,3]

Storage options in the cloud, Structured and unstructured storage in the cloud, unstructured storage using Cloud Storage, SQL managed services, Exploring Cloud SQL, Cloud Spanner as a managed service, NoSQL managed service options, Cloud Datastore, a NoSQL document store, Cloud Bigtable as a NoSQL option. OpenStack: NOVA, Neutron, Keystone Cinder, Swift

and

Glances,

VMware Suit, Apache Cloud Stack [4 Hrs]

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<p>Unit-V Service Management

[CO5 PO1,PO2,PO3,PO4,PO5,PO9,PO11,PSO2-Strength 3,3,1,3,3,1,2,3]

Service Level Agreements (SLAs), Billing and accounting, Billing in GCP Cloud Security:

Introduction to security in the cloud, the shared security model, Encryption options, Authentication

and authorization with Cloud IAM, Identify Best Practices for Authorization using Cloud IAM.,

Introduction to configuration and management tools Ansible, Architecture of DevOps. [4 Hrs]

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<p>Unit-VI Cloud Network and Security

[CO6 PO1, PO2, PO3, PO4, PO5, PO10, PO12 - Strength 2,2,1,3,1,3]

Introduction to networking in the cloud, defining a Virtual Private Cloud, Public and private IP

address basics, Google's network architecture, Routes and firewall rules in the cloud, Multiple VPC networks, building hybrid clouds using VPNs, interconnecting, and direct peering, Different options for load balancing. Introduction to security in the cloud, the shared security model, Encryption options, Authentication and authorization with Cloud IAM, Identify Best Practices for Authorization using Cloud IAM. [6 Hrs]

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</div>

<div class="tab-pane fade" id="pills-contact" role="tabpanel" aria-labelledby="pills-contact-tab">

<h1>WEB_TECHNOLOGY</h1>

<p>Unit-I Front End Tools

[CO1 PO1, PO2, PO5 – CO Strength 3,2,2]

Introduction to web technology, internet and www, Web site planning and design issues. HTML5:

structure of html document, HTML elements: headings, paragraphs, line break, styles, colors, fonts,

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links, frames, lists, tables, images and forms, CSS, Bootstrap, XML, JSON. [4 Hrs]

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<p>Unit-II Client-Side Technologies

[CO2 PO1, PO2, PO3, PO5, PO12 – CO Strength 3,2,2,1,3]

JavaScript: Overview of JavaScript, Data types, Control Structures, Arrays, Functions and Scopes,

HTML5 forms Validation, Objects in JS, DOM: DOM levels, DOM Objects and their properties and

methods, Manipulating DOM. JQuery: Introduction to JQuery, Loading JQuery, selecting elements,

changing styles, creating elements, appending elements, removing elements, handling events. [6

Hrs]

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<p>Unit-III Server-Side Technologies

[CO3 PO1, PO2, PO3, PO4, PO6 - CO Strength 2,3,3,2,3]

PHP: Introduction to PHP, Features, sample code, PHP script working, PHP syntax, conditions &

Loops, Functions, String manipulation, Arrays & Functions, Form handling, Cookies & Sessions,

File Handling, Exception Handling, E-mail validations, MySQL with PHP [4 Hrs]

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<p>SECTION-II

Unit-IV Spring Boot

[CO4 PO1, PO2, PO3, PO7, PO10, PSO4 – CO Strength 3, 2, 3, 3, 3, 3]

Overview of Spring Boot, Spring Framework, Installing Spring Boot, Build Tool Maven/Gradle/Ant, Core Features, Spring Security, Web Applications, JPA for database

connectivity, working with SQL and NoSQL, Messaging, Testing, Deploying Spring Boot

Applications, Monitoring. [6 Hrs]

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<p> Unit-V React

[CO5 PO1, PO2, PO4, PO5, PO8, PO11, PSO1, PSO3–CO Strength 3, 3, 2, 3, 3, 3, 3]

Introduction to React, React component, JSX, Render function, Component API, Component

lifecycle, State, Props, Mixins, Component composition, Pass data from parent to child, Pass data

from child to parent, Component styling, Forms, Events, Refs, Keys, Router, Flux. [4 Hrs]

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<p>Unit-VI Node JS

[CO6 PO1, PO2 PO4 PO9 – CO Strength 3, 2, 2, 3]

Introduction to Node JS, Installation of Node JS, Node JS Modules, Node Package Manager (npm),

Creating Web server, File System, Express JS, Serving Static Resources, Database connectivity. [4

Hrs]

</p>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

Pills.css

```
.video-background {  
  position: fixed;  
  right: 0;  
  bottom: 0;  
  min-width: 100%;  
  min-height: 100%;  
  z-index: -1;  
  overflow: hidden;  
}  
  
#bgvid {  
  position: absolute;  
  top: 50%;  
  left: 50%;  
  transform: translateX(-50%) translateY(-50%);  
  width: auto;  
  height: auto;  
  z-index: -1;  
}  
  
.video-overlay {  
  position: absolute;  
  top: 0;  
  left: 0;  
  width: 100%;  
  height: 100%;  
  background-color: rgba(0,0,0,0.5);  
  pointer-events: none;  
  z-index: -1;  
}  
  
.video-content {  
  position: relative;  
  z-index: 1;  
  color: #fff;  
}  
  
.tab-wrapper {  
  background-color: rgba(0,0,0,0.5);  
  border-radius: 5px;  
  padding: 20px;  
}  
  
.nav-pills .nav-link.active, .nav-pills .show > .nav-link {  
  background-color: #fff;  
  color: #333;  
}
```



```

.nav-pills .nav-link {
  color: #fff;
}

.tab-content {
  background-color: rgba(255,255,255,0.5);
  border-radius: 5px;
  padding: 20px;
  overflow-y: scroll;
  max-height: 500px;
}

```

Output:

