

Lecture Summary Form for Front-End Web UI Frameworks and Tools

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Course Name: Front-End Web UI Frameworks and Tools

Course provider: The Hong Kong University of Science and Technology

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Instructor: Prof. Pankaj Jalote

Lectures:

Week	Title	Duration (mins.)	Time you spent (mins.)	Summary
1	Full Stack Web Development: The Big Picture	19	19	This lesson gives us a big picture view of the Full Stack Web Development and positions the current course in the overall structure of the specialization. This provides you the context for doing this course and sets the path forward in this course.
1	Introduction to Bootstrap	20	25	Introduction to the basics of Bootstrap <ul style="list-style-type: none">• Know about why we use front-end development.• Set up a project with Bootstrap support• Become familiar with the basic features of Bootstrap
1	Responsive Design and Bootstrap Grid System	30	45	The part was designed to engage us in making a responsive website by learning about the grid system of Bootstrap. It also taught us a way to add into Bootstrap our own custom CSS classes. There was a major exercise at the end of this part which focused on the beginning to a responsive approach to build our website.
1	Navigation Bar and Navigation	33	75	In this lesson, we were taught about navigation design and the importance of providing appropriate navigation support within your website. Support for navigation in Bootstrap such as navbars, Breadcrumbs were discussed. In addition, the use of icon fonts in web page design will be covered. The exercise concentrates on adding a responsive navigation bar to the website.
2	User Input: Buttons and Forms	17	40	In this lesson we review the support for user input through the use of buttons and forms in a web page. We review Bootstrap button classes and Forms classes. <ul style="list-style-type: none">• Create and style buttons on a web page using Bootstrap button classes• Create and style forms on a web page using Bootstrap form classes
2	Displaying Content: Tables, Panels, Wells	10	30	This whole section talks about how to present content on a webpage using bootstrap. A thorough usage of panels and wells is taught which is also required to be implemented in the exercise at the end.
2	Images and Media: Images, Thumbnails,	9	20	In this lesson we will look at the use of images and media on websites. In particular we will review the Bootstrap classes to support the inclusion of images and media, supporting responsiveness of images and

	Media Objects			<p>media, and the use of these as thumbnails and part of other components, in particular the media component. At the end of this lesson you will be able to:</p> <ul style="list-style-type: none"> • Use images and media and include them in your website • Support responsive images and media using responsive Bootstrap classes for images and media
2	Alerting Users: Labels, Badges, Alerts, Progress Bars	8	25	<p>The section talks about delivering alerts to the user. Some of the discussed methods are:</p> <ul style="list-style-type: none"> • Labels and badges • Creating and styling the alerts • Progress bars
3	Bootstrap JavaScript Components Overview	7	15	<p>The section talks about Bootstrap's JavaScript components. These components have two parts, the CSS classes, and the JavaScript support. We will learn about using the JS components without writing any JavaScript Code and the data-* attributes</p>
3	Tabs, Pills and Tabbed Navigation	8	20	<p>The section teaches</p> <ul style="list-style-type: none"> • Design a tabbed navigation for content • Use tab panes to organize the content and navigate the content using tabbed navigation
3	Hide and Seek: Collapse, Accordion, Scrollspy and Affix	23	55	<p>In this lesson we learn about the collapse JavaScript plugin that allows us to hide and reveal content. We also explore the ScrollSpy plugin in order to highlight the nav elements based on the scroll position. We also use the Affix plugin to first let the nav element scroll with the page.</p>
3	ToolTips, Popovers and Modals	9	12	<p>The lesson discusses ways to show information on top of a page. Various methods discussed:</p> <ul style="list-style-type: none"> • Tooltips • Modals • Popovers
3	Carousal	5	15	<p>Designing an interactive carousal which enables easy and interactive navigation.</p>
4	Bootstrap and JQuery	10	15	<p>The lesson examines the use of Bootstrap, JQuery and JavaScript together to control Bootstrap JS components. At the end of this lesson, I was able to:</p> <ul style="list-style-type: none"> • Understand using JQuery and JavaScript to control the behaviour of Bootstrap components
4	Node.js and NPM	5	10	<p>The lesson talks about the basics of Node.js and the Node Package Manager. It starts off with instructions to set up the Node environment on our machines</p>
4	CSS pre-processors: Less and Sass	14	20	<p>The lesson talks about pre-processors built specifically for managing CSS and making useful classes in both.</p>
4	Web Tools: Bower	6	15	<p>An introduction to Bower and other tools written in JavaScript that help automate a lot of repetitive tasks. Also, the ensure that each user has an updated version of resources.</p>
4	Course Conclusions	1	1	-

Assignment/Quiz/Exam/Peer Review:

Week	Assignment /Quiz/Title	Title	Marks (100)	Time you spent (mins.)	Give a short (appx. 50-100 words) summary of Exam / Assignment/ Quiz
1	Assignment and peer assessment	Front-end Web UI Frameworks Overview: Bootstrap	97	60	Designed a webpage: aboutus.htm. Worked on top of the barebones structure of the webpage provided and updated the navigation bar, breadcrumbs and formatted the page.
2	Assignment and peer assessment	Bootstrap CSS Components	100	60	In this assignment one needs to edit the index.html page to add forms, buttons, media objects and labels, making the page more interactive, increasing possibility of user commands, including options of sign in and reserving a table by filling out a form.
3	Assignment and peer assessment	Bootstrap Javascript Components	100	120	<p>In this assignment, edited the home page (index.html). At the end of this assignment we had done the following tasks:</p> <ul style="list-style-type: none">• Removed the tooltip from the Reserve Table button.• Moved the table reservation form and the alert message from the last content row into a modal.• Updated the Reserve Table button to show the modal containing the table reservation form when the button is clicked.• Included a radio button group in the table reservation form to enable diners to ask for a table in the smoking/non-smoking section of the restaurant.
4	Assignment and peer assessment	Web Tools	100	20	<p>The closing assignment deals majorly with optimising the written code. The following tasks were accomplished:</p> <ul style="list-style-type: none">• Removed the data-* attributes from the Reserve Table button and the Login link in the Navbar that control the two modals.• Updated the button and the link so that they will trigger the appropriate JavaScript code when clicked.• Included appropriate JavaScript code using the modal methods to toggle the showing and hiding of the modals when the two buttons are clicked.

Cumulative Score Earned: 99.2%