

CAP913:MOBILE APP DEVELOPMENT WITH HTML5

L:0 T:0 P:5 Credits:3

Course Outcomes: Through this course students should be able to

- focus on structuring apps using bootstrap
- associate HTML5 features with device hardware
- write graphic rich applications using different APIs, CSS and jQuery
- develop hybrid applications using HTML5 and JavaScript

List of Practicals / Experiments:

HTML5 with jquery

- installing and using jQuery mobile
- jQuery mobile components
- creating multiple pages, linking pages
- using data role
- applying transitions
- creating dialog with jQuery
- jQuery mobile form components
- jQuery mobile themes

Environment Setup

- installing node js
- installation of cordova

Working with HTML5

- html5 doctype
- new and updated elements
- form validation

Working with HTML5 media

- working with audio/video
- understanding audio/video events
- customizing audio/video controls

HTML5 Canvas

- context & coordinates
- drawing shapes
- drawing straight lines
- drawing circles or arcs
- drawing text
- drawing images

HTML5 APIs

- html5 cache
- web storage api
- geolocation api

Sensor-based programming

- touch sensor
- the orientation and direction sensors

- the motion sensor

Working with BootStrap

- bootstrap grid structure
- container
- reordering columns
- display responsive images
- bootstrap tables
- bootstrap form layout
- bootstrap button
- different image styles
- different text styles
- caret classes

Bootstrap Components

- dropdown menu component
- navigation pills & tabs components
- navbar component
- breadcrumb component
- pagination component
- labels / badge components
- page header components
- alerts & dismissible alerts
- bootstrap list group component

Text Books:

1. MOBILE HTML5 by ESTELLE WEYL, O'REILLY

References:

1. PROGRAMMING HTML5 APPLICATIONS by ZACHARY KESSIN, O'REILLY