

Course Code	:	CSLR62
Course Title	:	App Development Laboratory
Number of Credits	:	0-0-3-2
Pre-requisites (Course Code)	:	-
Course Type	:	PL

Course Objectives

- To be familiar with Web page design using HTML/XML and style sheets
- To learn to write Client Server applications
- To be familiar with the PHP programming
- To be exposed to creating applications with AJAX
- Know the components and structure of mobile application development frameworks for Android and windows OS based mobiles
- Learn the basic and important design concepts and issues of development of mobile applications

Exercises

A. Web Applications

1. Create a web page for user registration using HTML, CSS and validate the details using Javascript.
2. Write programs in Java using Servlets: (i) To invoke servlets from HTML forms; (ii) Session tracking using hidden form fields and Session tracking for a hit count.
3. Create three-tier applications using JSP for conducting on-line examination for displaying student mark list. Assume that student information is available in a database which has been stored in a database server.
4. Create a database with user information and books information and create a webpage in which books catalogue should be dynamically loaded from the database using AJAX.
5. Create and save an XML document at the server, which contains 10 users Information. Write a Program, which takes user Id as an input and returns the User details by taking the user information from the XML document.
6. Develop email verification application using PHP.

B. Mobile Applications

1. Design restaurant data entry form using Table Layout and show different events using activity class.
2. Write a program to capture image using built in camera and store it in database.
3. Develop a banking application that registers the user by verifying OTP.
4. Develop a native application that uses GPS location information and convert into speech.
5. Write a program to call a number.

Course Outcomes

Upon completion of this course, the students will be able to:

- Construct Web pages using HTML/XML and style sheets
- Build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms
- Develop Web application which makes use of PHP programming
- Construct web applications using AJAX
- Design and Implement various mobile applications using emulators
- Deploy applications to hand-held devices

Text Books

1. Reto Meier, "Professional Android 4 Application Development", Wrox, 2012.
2. Matt Gifford, "PhoneGap Mobile Application Development Cookbook", Packt, 2012.
3. Adrian Kosmaczewski, "Mobile JavaScript Application Development", O'Reilly, 2012.