



JSS MAHAVIDYAPEETHA

JSSATE – Science & Technology Entrepreneurs Park, Noida

(A Society registered under Societies Registration Act 1860)

Supported by the Dept. of Science & Technology, Govt. Of India

Software Competency Centre

Training Workshop on Web 2.0 technologies



1. Introductory Session.

- a. Career Opportunities in Web Technologies.
- b. Introduction to Web Infrastructure today.
- c. Introduction to Cloud and paradigm shift in computing.
- d. Tools installation.
- e. Overview of Course plan.
- f. Introduction to SVN for code repository.

2. HTML-5

- a. Basic structure of HTML.
- b. Elements & Attributes.
- c. Covering Key Elements and Attributes.
- d. HTML-5 specific elements.

3. CSS

- a. Introduction to Styling.
- b. Syntax Details.
- c. Box Model.
- d. Visual Formatting model.
- e. Theme Creation assignments.

4. Javascript

- a. Common paradigm of programming languages.
- b. Basic Syntax and Semantics.
- c. Data Types.
- d. Coding Style Guide.
- e. Objects, Functions & Events.
- f. Debugging.
- g. Document Object Model. (DOM).
- h. BOM(Browser Object Model) (Window,Screen,History,Navigator,Cookies,Timer etc.)

Hackathon : Hackathon contest for participants to develop application using knowledge acquired till now.

5. Framework

- a. JQuery.
- b. Bootstrap for Responsive UI.
- c. Angular JS.
- d. Ionic framework for Android & iOS.
- e. UX Designing principles (wire framing and tools)

Project : Develop application using all front-end technologies covered so far.



Back-end Technologies.

1. **Introduction to Back-End** Infra-structure to deploy Web Apps.
2. **MySQL.** (Schemas, Sql Queries, basic about admin, Clusters, performance optimizations)
3. **PHP**
 - a. Basic Syntax and Semantics.
 - b. Data Types.
 - c. Coding Style Guide.
 - d. Files I/O.
 - e. Sessions cookies.
 - f. File uploading.
 - g. Mailing modules.
 - h. Ajax and other request handling.
 - i. Form.
 - j. MySQL interaction.
 - k. PHP.ini configurations.

Hackathon: Using knowledge acquired till now including Front-end modules as well.

4. **AWS.**
 - a. Setting up.
 - b. Overview of features.
 - c. Ec2 services.
 - d. S3 services.
 - e. Auto scale APIs.

Project: Deployment projects on AWS and configuration.

5. **Software Engineering Processes.**
 - a. SDLC processes.
 - b. Project Estimation.
 - c. Agile/SCRUM methodology of project management.
 - d. Importance of Team.
 - e. Testing (Unit Testing, Test Cases, Test planning etc.)
-



JSS MAHAVIDYAPEETHA

JSSATE – Science & Technology Entrepreneurs Park, Noida

(A Society registered under Societies Registration Act 1860)

Supported by the Dept. of Science & Technology, Govt. Of India

Live Project: (spanning almost 4 -6 weeks)

Employing SDLC processes and using both front-end and back-end technologies in a team of 4/5, where there will be a role playing by each team member at different point of time.

Each team will be required to submit all artifacts i.e. Documents, project planning, Architecture, and show case the final application developed.

The top 2 will be declared winner and duly rewarded.

Training culminates in form of Certification to all participants along with experience certificate from SCC.

Placement Assistance: SCC will try its best to provide placement assistance to all its participants with the start-ups in its ecosystem, however, it does not guarantee that every participants will be provided employment.
