

Bachelor Thesis Summary

Web Application : Design and Development

Credit Points - Minor and Major Project - 33

Websites are the most convenient way to present and disseminate information to the maximum number of people in the world. The web browsers are the means to render the information on web page, the basic building blocks of a website, and web programming is the basic structure (architecture) of each web page. The thesis on "Web Application : Design and Development" is a complete analysis of website design and development. Web sites should be able to present abundant information to a visitor in well organised manner. In addition, there must be a reliable transfer of secure information between server and client. There exist other major factors such as user friendliness, layout, simplicity, ease of rendering in the browser and so on that are closely related with the quality of website. This thesis will elaborate on a number of issues that are related with web design and development. These principles will be illustrated and demonstrated in the design of some websites that I have designed so far.

The project illustrates client and server communication as student being the client and college data saved on server DB. The website depicts the whole concept of students of a college approaching the college website for different kind of requests or information i.e college details, administration, departments & faculties, campus, students portal, notices and news and gallery.

The basic UI of the website has been made using HTML and CSS tools. Functionality for buttons and user actions has been made possible using Javascript. The backend has been developed using php providing apis to connect to the client. Local DB requests have been implemented using SQLite. Team of 4 people worked on different parts of the application i.e 2 developers on the frontend of the application for UI design and functionality using HTML, CSS and JS with api implementation respectively and 2 developers for backend code written in php and implementation of DB using SQLite commands.

Overall the project implements a student-college interface web application for convenience of the college students and faculties.