Project Proposal

Project Title: HTTP Server
Group Members:Nitish Bansal[15114048]
        Mohit Jindal[15114046]
        Chirag Maheshwari[15114020]

We are going to build HTTP server. HTTP is the abbreviation of "**H**yper**T**ext **T**ransfer **P**rotocol". A protocol is like a language with a simple grammar. The HTTP Server is the implementation of that protocol in a piece of Software.The protocol specifies how the information must be requested and how the responses are formed, so we have two important actors here: the HTTP Client (well known as Browser) and the HTTP Server. The HTTP Server will serve content located in the server, this includes HTML, images, flash and any file related. As HTTP Clients we have Firefox, Safari, Opera and Explorer within others. So our customer will send a request which will be read by our server and then the server will respond accordingly.Customer C who wants to learn about how the servers work ,how when he enters google.com a page of google search appears etc., can surely learn by reviewing this project.The purpose of this project is mainly educational as we'll be implementing some of the basic functionalities of the Server.Customer C by having a look at this will be able to clarify his doubts on what is HTTP,how the server is able to recognize which page,files to send etc.

It is important as the server is the one which binds the whole world together.It has a tremendous ability to store all the files centrally and different users of the same network can use the files whenever they want and together too.So we personally think that having a knowledge of HTTP is must ,especially for people using Internet.

Implementing all features of HTTP in a semester seems tough .So we will be implementing some basic functions. As we haven't built HTTP server before nor we still know how to implement its functionalities ,how the server will firstly recognize the request and other things , it's definitely not an easy one. However ,since some of its content is available online and also it can be implemented in many languages ,this hold our nerves.Study of IP addresses ,sockets ,requests will be needed which will be accomplished by reading on this topics thoroughly. So we(3-members) can say that it is neither too easy nor too ambitious for us to undertake this project.