***JAYPEE INSTITUTE OF INFORMATION***

***TECHNOLOGY, NOIDA***

System & Network Programming Project



Minor Project Synopsis

Topic: *E-Transit*

**Submitted To: Group Members:**

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***Motivation For Our Project***

We are great believers that any tool that enhances *communication* has profound effects in terms of how people can learn from each other, and how they can achieve the kind of freedoms that they’re interested in.

The first rule of any technology used in any work is that automation applied to an efficient operation will magnify the efficiency. The second is that automation applied to an inefficient operation will magnify the inefficiency.

We think it’s fair to say that personal computers have become the most empowering tool we’ve created. They are tools of communication, they’re tools of creativity, and they can be shaped by their user.

**Introduction**

**Problem Statement:-**

Our project aims at providing a Lan based application which enhances communication via different modes including document upload and download, group communication, video communication etc.

**Group Discussion** may refer to any kind of communication over the Lan that offers a real-time transmission of text messages from sender to receiver. Text messages are generally short in order to enable other participants to respond quickly. It may address point-to-point communications as well as multicast communications from one sender to many receivers and voice and video chat, or may be a feature of a web conferencing service.

**Document Transferring to the server and download it using eencryption and decryption. Server will store encrypted doc for more security purpose and user when download it will be downloaded as decrypted**

**Video telephony** comprises the technologies for the reception and transmission of audio-video signals by users at different locations, for communication between people in real-time

Using **Google API** we have tried to store all possible events and meeting details so that every Employee could see and be updated and don’t miss any meeting.

Details of every single Employee is stored in database and can be update, edit, delete, insert new details etc.

**Features**

* Group Discussion: user can discuss their problems by communicating very fast using the software on lan-network.
* Video Conferencing : Users can chat face to face.
* Document Download : Users can download documents like txt file, photos, videos etc from the server.
* Document Upload : Users can upload documents like txt file, photos etc to the server.
* Encryption/Decryption : User can upload encrypted file to the server for security purpose and download decrypted file from it.
* Audio Broadcasting: Manager of project can also broadcast his message using audio broadcasting to each and every client connected to the server.
* Text Editor : user can write anything, code for their projects.
* User can save birthdays/Events and notes also saved on INTERNET using Google API.
* Employee DATABASE : could be save, edit, delete any database or details of employees of a company.

**Languages to be used:**

PYTHON 2.7:

Python is a widely used general-purpose, high-level programming language. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than would be possible in languages such as C++ or Java. The language provides constructs intended to enable clear programs on both a small and large scale. Python supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles. It features a dynamic type system and automatic memory management and has a large and comprehensive standard library.

HTML5, CSS:**HTML** or **HyperText Markup Language** is the standard markup language used to create web pages. **Cascading Style Sheets** (**CSS**) is a style sheet language used for describing the look and formatting of a document written in a markup language.

**Tools & Techniques** –

* PYQT4 for GUI
* Python 2.7
* WorkBench for Database(MySql)
* Google API
* Different Modules of Python
* Macromedia Dreamweaver 8

**References**-

* Gmail/Yahoo
* Google
* Youtube
* PHP, A beginner's guide.
* Learn Python
* W3schools.com / tutorialspoint.com