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Client Server Architecture for IT Company

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Abstract: *The client server communication via wired or wireless LAN is an important feature of every company. The project creates an effective file sharing client server application via LAN for an IT company. In modern IT companies have different types of application for communication. The file sharing system and broadcast nature via client server architecture is a tedious one. The project aims to create a new client-server communication architecture for IT Company, which helps to send files, message to the department or a single employee. We developed this software application with a fully computerized method to manage all the data. At present all records are maintained manually.*

Keywords: *Client Server, Asp.Net, Microsoft Visual Studio2010.*

I. INTRODUCTION

Client-server architecture is a communication between client and server .client were requesting to the server for a particular message or file or resource. The server was accepting the request and processing the request. Then return the reply message to the client. This project developed for it company for a new communication method. In this project, the admin can add the departments and each employee can register to the appropriate departments. The registered employees can log in to the system, and they can send a message to same department or employee of different departments. We can also have broadcasting and file sharing. Through broadcasting, we can send one message to many employees. In file sharing, we can share any type of files like audio, video, image, and documents.

II.ANALYSIS OF PROBLEM

The communication in Existing it company is very complex, waste of time & much more Real-life problem for example if a person wants to send a message to more than one person he wants to send one by one. And it takes more time. In this communication there is no sure about the messages is received or not, maybe the message is reached or may not be. And this taking lot of time. And nowadays each and every person is in hurry so by analyzing and considering these problems we are developing one new application which overcomes this problem and get a solution in an efficient way.

III.PROPOSED WORK

Here, we are developing a new application for it company for communication. First admin were adding the departments .then the employees need to fill the registration form so that we provide authentication to them and the employee can choose option he wants means if he selects to send message then he can send the message to whom he wishes to send, he can send that to a single person or he can send it to any people through broadcasting. If he likes to share files he can send files like audio video image and documents. If the message is reached they can view and download the files.

The following information shows the details of RTO office management system.

- Registration
- Login
- Message sending
- File sharing
- Broadcasting

SCREEN SHOTS

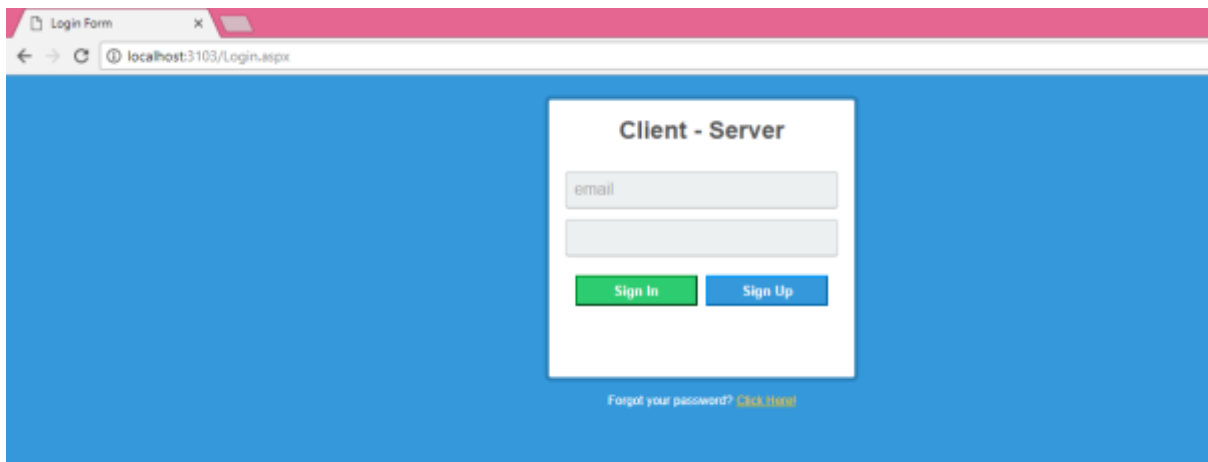


Fig .1 Login

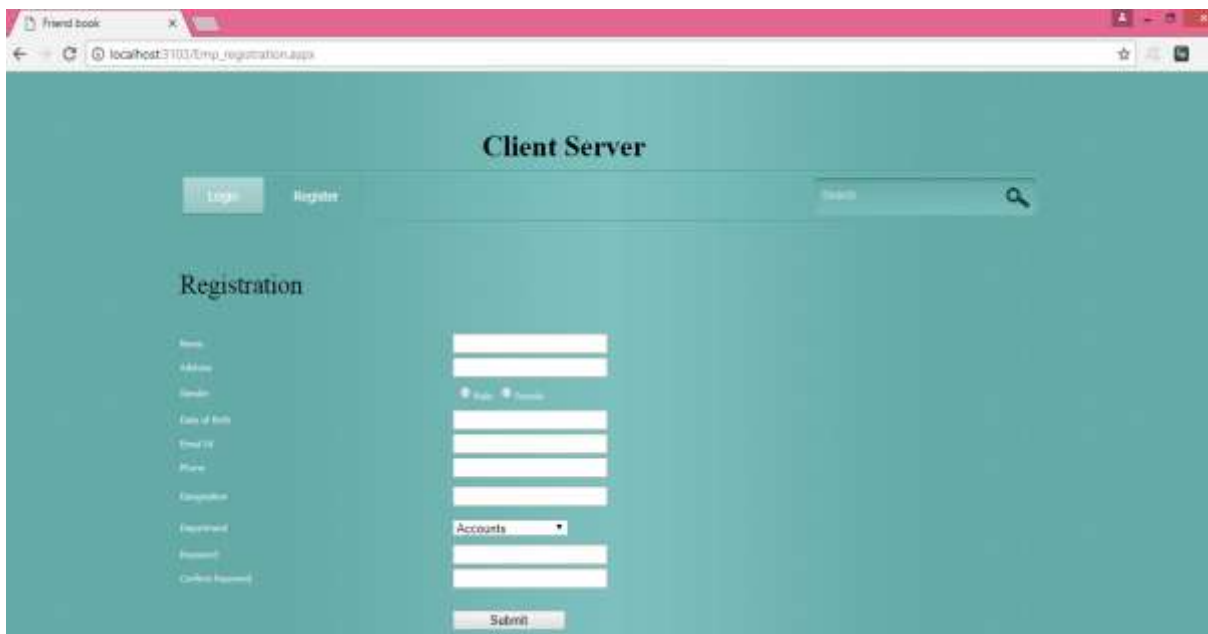


Fig. 2 Registrations

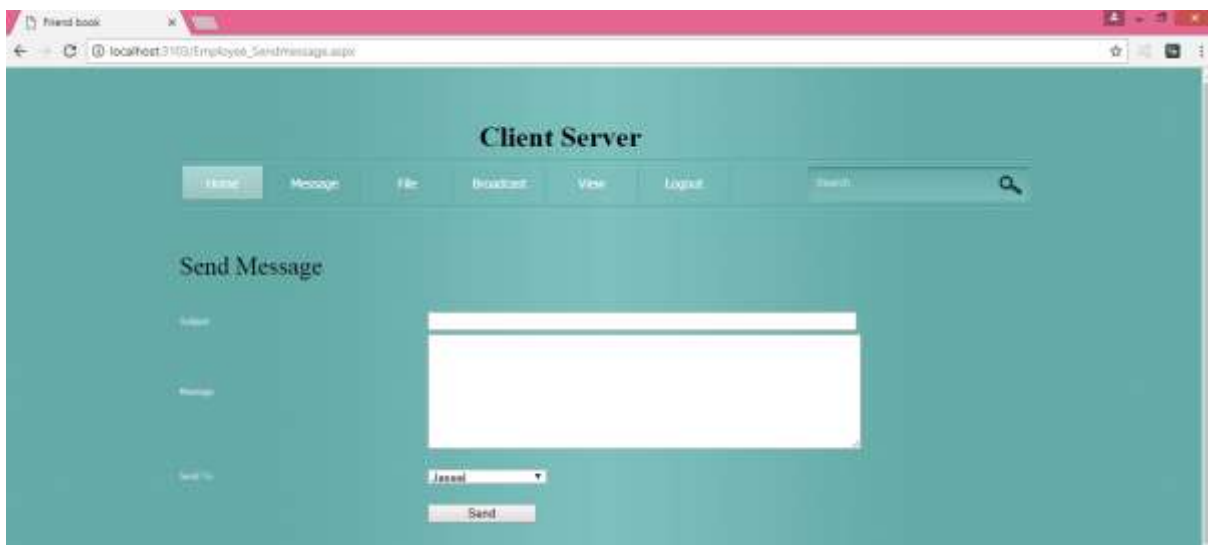


Fig. 3 in this module send messages between employees

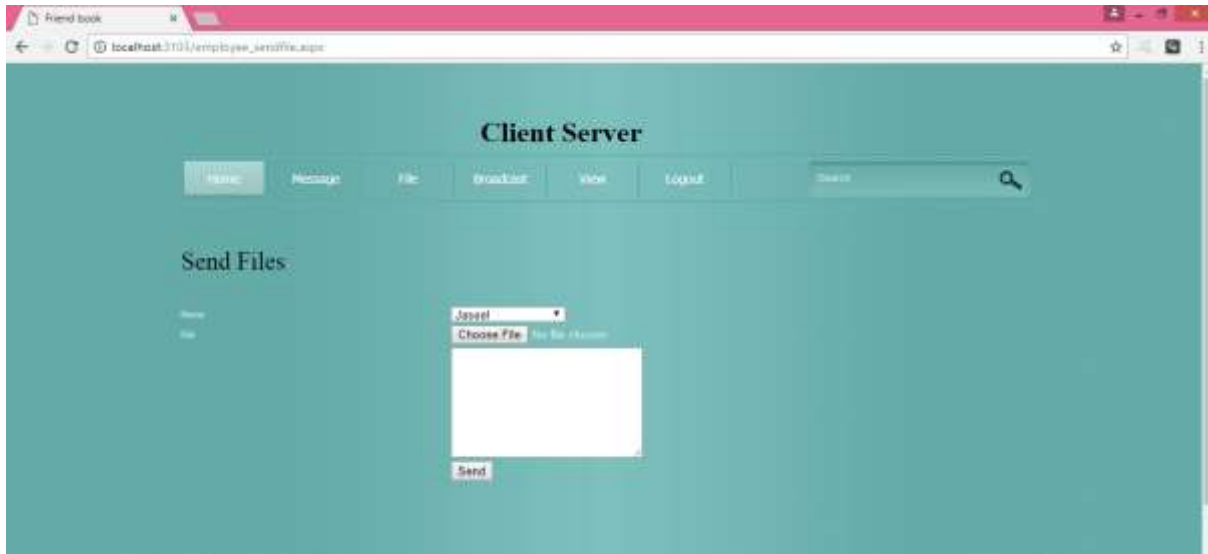


Fig .4 in this module can share files

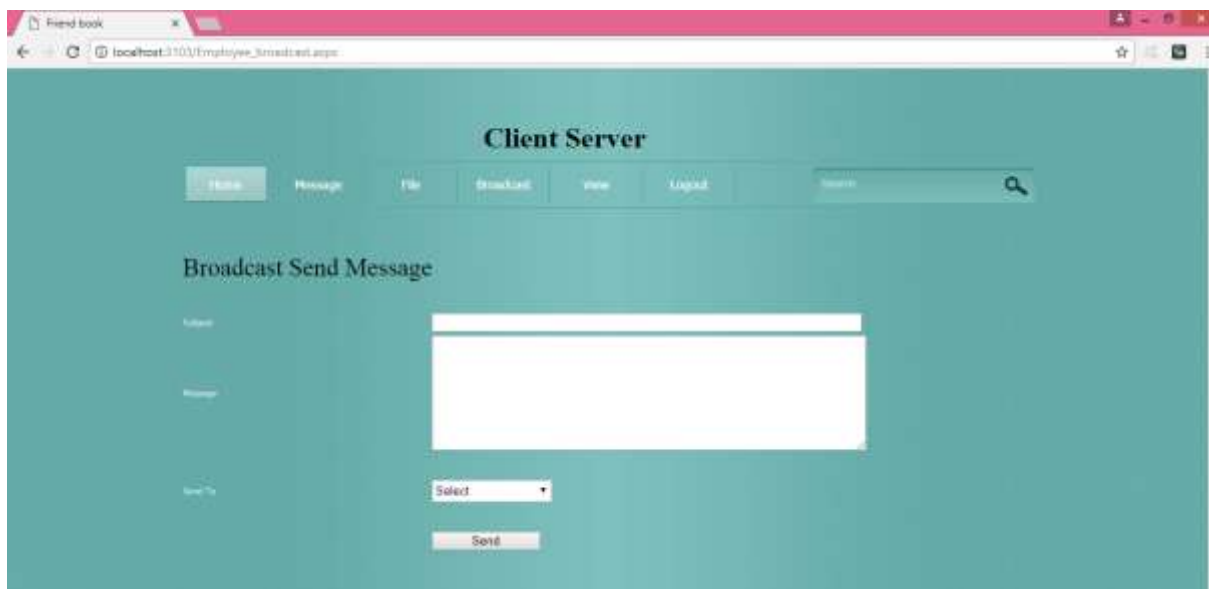


Fig. 5 in this module can send message to many ones

Table name: **Msg_tbl**
 Message sending
 Primary key: M_id

	Column name	Data type	Description
	Id	Int	Login id
	User_nme	Nvarchar	Username
	Password	Nvarchar	Password
	User_typ	Nvarchar	User type

Table Name: **Emp_tbl**
 Add employee details
 Primary key: emp_id

	Column Name	Data Type	Description
	M_id	Int	Message-id
	Subject	Nvarchar	Subject of message
	Message	Nvarchar	Message
	Sndr_id	Int	Sender id
	Rcvr_id	Int	Receiver id
	Ack	Bool	Acknowledgement

Table Name: **File_tbl**
 Uploading files
 Primary key: F_id

	Column Name	Data Type	Description
	Emp_id	Int	Employee id
	D_id	Int	Department id
	Emp_name	Nvarchar	Employee name
	Emp_add	Nvarchar	Employee address
	Emp_gen	Nvarchar	Employee gender
	Emp_db	Date-time	Employee date of birth
	Emp_eml	Nvarchar	Employee email
	Emp_ph	Int	Employee phone number
	Emp_des	Nvarchar	Employee designation

Table Name: **Departs_tbl**
 Adding departments
 Primary key: D_id

	Column Name	Data Type	Description
	F_id	Int	File id
	File	Binary	File
	Description	Nvarchar	Description of the file
	Rcvr_id	Nvarchar	Receiver id

Table Name: **Broadcst_tbl**
 Broadcasting

	Column Name	Data Type	Description
	D_id	Int	Department id
	Depart	Nvarchar	Departments
	Dscrptn	Nvarchar	Description of Departments

Primary key: B_id

	Column Name	Data Type	Description
	B_id	Int	Broadcast id
	Msg	Nvarchar	Message
	Sndr_id	Int	Sender id
	Rcvr_id	Nvarchar	Receiver id

DATA FLOW DIAGRAMS



Fig1: Level 0

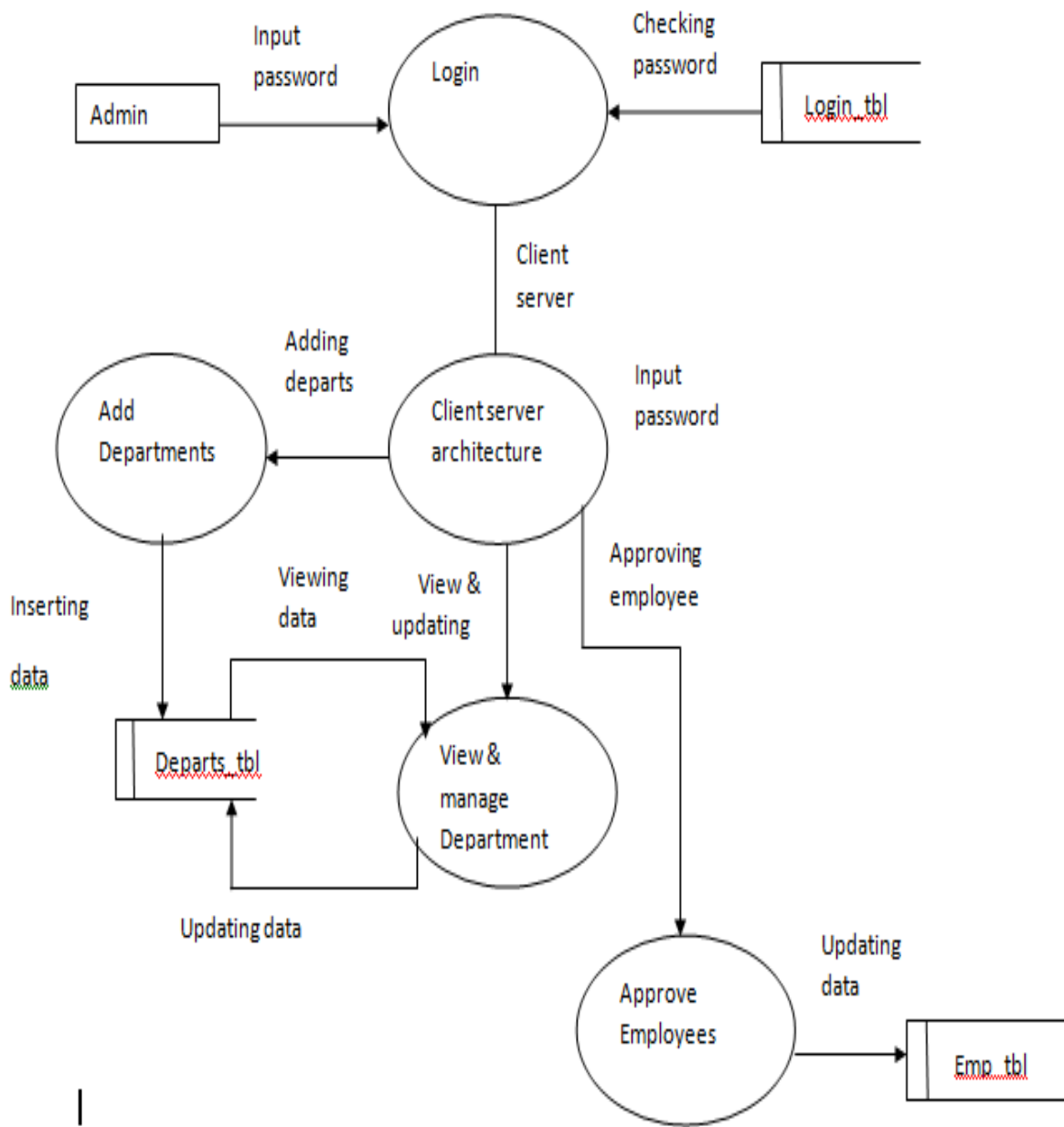


Fig 2: Level 1

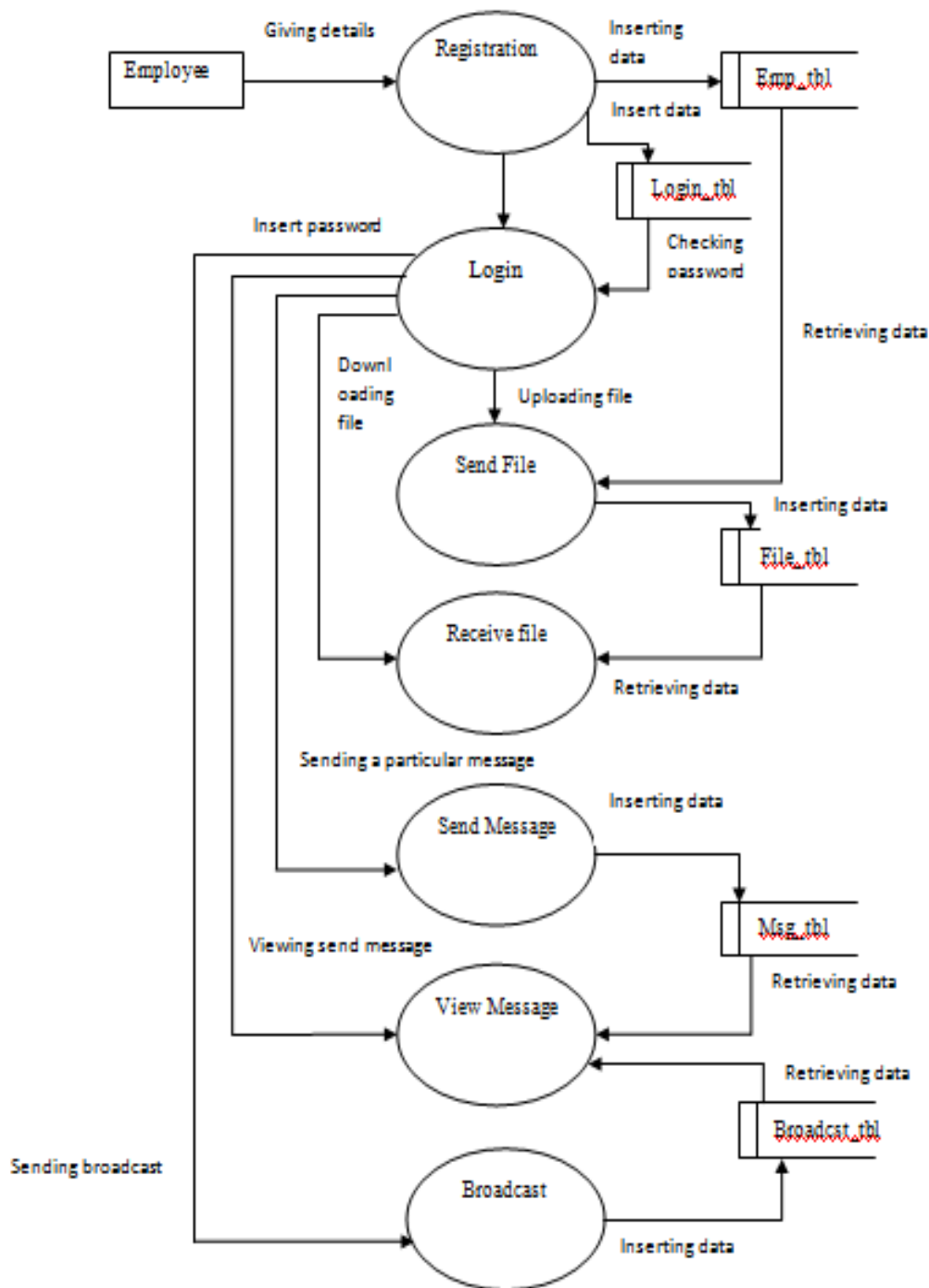


Fig 3: Level 2

CONCLUSION

Client-server architecture for it company allows storing the details of all the data related to the company. The system is strong enough where the database is maintained and cleared over a certain time of span. The implementation of the system in the organization will considerably reduce data entry, time. In this project, employees can share files to wished one. This project supports broadcasting. These systems were stores all the details about the departments and employees. This system records all transactions.

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