**Philia-A chat Application**

**MINI PROJECT – I**

**SYNOPSIS**



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# Acknowledgement

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini project undertaken during B.Tech III Year. This project is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals. We owe special debt of gratitude to Mr. Mayank Saxena, Technical Trainer , for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work.

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# ABSTRACT

The purpose of Online Chat Application is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Online Chat Application, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized

equipments and full-fledged computer software, fulfilling their requirements,

so that their valuable data/information can be stored for a longer period with

easy accessing and manipulation of the same. Basically the project describes

how to manage for good performance and better services for the clients.

# Introduction

The "Online Chat Application" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Online Chat Application , as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Chat Application, Online Chat, Chat profile, Smilies chat, Users. Every Online Chat Application has different Online Chat needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

# Objective:

The main objective of the Project on Online Chat Application is to manage the details of Online Chat, Chat Application, Chat History, Chat profile, Users. It manages all the information about Online Chat, Smilies chat, Users, Online Chat. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Online Chat, Chat Application, Smilies chat, Chat History, Real-time notification. It tracks all the details about the Chat History, Chat profile, User..

# Functionalities provided by Online Chat Application are as follows:

* Provides the searching facilities based on various factors. Such as Online Chat, Chat History, Chat profile.
* Online Chat Application also manage the Smilies chat details online for Chat profile details, Users details, Online Chat.
* It tracks all the information of Chat Application, Smilies chat, Chat profile etc.
* It also allows user to create groups according to their need.
* It sends real-time notification to user when they are offline.
* Admin have the access to remove any user.
* Manage the information of Chat Application
* Shows the information and description of the Online Chat, Chat History
* To increase efficiency of managing the Online Chat, Chat Application
* It deals with monitoring the information and transactions of Chat profile.
* Manage the information of Online Chat
* Editing, adding and updating of Records is improved which results in proper resource management of Online Chat data.
* Manage the information of Chat profile
* Integration of all records of Users.

# Scope of the project Online Chat Application

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Online Chat Application. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business process automation, i.e. we have tried to computerize various processes of Online Chat Application.

* + In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
  + In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
  + To assist the staff in capturing the effort spent on their respective working areas.
  + To utilize resources in an efficient manner by increasing their productivity through automation.
  + The system generates types of information that can be used for various purposes.

# Input Data and Validation of Project on Online Chat Application

* All the fields such as Online Chat, Chat History, Users are validated and does not take invalid values

* Each form for Online Chat, Chat Application, can not accept blank value fields
* Avoiding errors in data

* Controlling amount of input

* Integration of all the modules/forms in the system.

* Preparation of the test cases.

* Preparation of the possible test data with all the validation checks.

* Actual testing done manually.

* Recording of all the reproduced errors.

* Modifications done for the errors found during testing.

* Prepared the test result scripts after rectification of the errors.

* Functionality of the entire module/forms.

* Validations for user input.

* Checking of the Coding standards to be maintained during coding.
* Testing the module with all the possible test data.

# Features of the project Online Chat Application:

* Product and Component based
* Creating & Changing Issues at ease
* Query Issue List to any depth
* Reporting & Charting in more comprehensive way
* User Accounts to control the access and maintain security
* Simple Status & Resolutions
* Multi-level Priorities & Severities.
* Targets & Milestones for guiding the programmers
* Attachments & Additional Comments for more information
* Robust database back-end
* Various level of reports available with a lot of filter criteria’s
* It contains better storage capacity.
* Accuracy in work.
* Easy & fast retrieval of information.
* Well-designed reports.
* Decrease the load of the person involve in existing manual system.
* Access of any information individually.
* Work becomes very speedy.
* Easy to update information

# Feasibility Study:

After doing the project Online Chat Application, study and analyzing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project.

Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

## **Economical Feasibility**

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

* + All hardware and software cost has to be borne by the organization.
  + Overall we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

## **Technical Feasibility**

This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS), and checked if everything was possible using different type of frontend and backend plaformst.

## **Operational Feasibility**

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system.

# System Design of Online Chat Application

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the clients’s requirements into a logically working system. Normally, design is performed in the following in the following two steps:

## **Primary Design Phase:**

In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimising the information flow between blocks. Thus, all activities which require more interaction are kept

in one block.

## **Secondary Design Phase:**

In the secondary phase the detailed design of every block is performed.

# System Requirements

**Software Requirements:**

|  |  |  |
| --- | --- | --- |
| **S. NO.** | **Name** | **Software** |
| 1. | Platform | Windows, Android |
| 2. | Language | Html, CSS, JavaScript |
| 3. | Browser | Any Chrome , Edge, Mozilla, etc |
| 4. | Technologies | React, Stream API |
| 5. | Tools | VS Code |

**Hardware Requirements**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Name** | **Hardware** |
| 1. | Processor | Pentium IV 630MHZ |
| 2. | RAM | 1GB |
| 3. | Hard Disk | 20GB |
| 4. | Monitor | 15’’ color monitor |
| 5. | Keyboard | 122 keys |

**System Analysis**

System analysis is a process of gathering and interpreting facts, diagnosing problems and the information about the Online Chat Application to recommend improvements on the system. It is a problem solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is studied to the minutest detail and analyzed. The system analyst plays the role of the interrogator and dwells deep into the working of the present system. The system is viewed as a whole and the input to the system are identified. The outputs from the organizations are traced to the various processes.

System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables, analyzing and synthesizing the various factors and determining an optimal or at least a satisfactory solution or program of action. A detailed study of the process must be made by various techniques like interviews, questionnaires etc. The data collected by these sources must be scrutinized to arrive to a conclusion.

The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces.

The solutions are given as proposals. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made. This is loop that ends as soon as the user is satisfied with proposal. Preliminary study is the process of gathering and interpreting facts, using the information for further studies on the system. Preliminary study is problem solving activity that requires intensive communication between the system users and system developers. It does various feasibility studies. In these studies a rough figure of the system activities can be obtained, from which the decision about the strategies to be followed for effective system study and analysis can be taken.

## **Existing System of Online Chat Application:**

In the existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.

* Lack of security of data.
* More man power.
* Time consuming.
* Consumes large volume of pare work.
* Needs manual calculations.
* No direct role for the higher officials

# Proposed System of Online Chat Application:

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

* Security of data.
* Ensure data accuracies.
* Proper control of the higher officials.
* Minimize manual data entry.
* Minimum time needed for the various processing.
* Greater efficiency.
* Better service.
* User friendliness and interactive.
* Minimum time required.

# Conclusion:

React JS is one of the most popular and powerful front-end technology around the world, today. It offers excellent performance in any application. In addition to this, React JS offers good compatibility on different platforms, browsers and devices. After developing the Chat App, it is clear that React JS is an easy to learn and convenient to implement.

GetStream is a scalable and fast API for building social networks, activity feeds and chat apps. And it also has pre-built components and APIs to build your app.

Visual Studio Code was an excellent IDE in this project.

I conclude by saying that this thesis application is a simple project but needs development in the future if the developer gets an opportunity to put effort into it.

# REFERENCES

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