

BUNDELKHAND INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Computer Science and Engineering



SESSION 2019-2020

MINI PROJECT/ASSESSMENT REPORT

On

JAVA TALK

Submitted by

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Roll No.- 1804310019

Submitted to

**Computer Science and
Engineering Department**

BUNDELKHAND INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Computer Science and Engineering



Certificate

This is to certify that this project report entitled “**Java Talk**” submitted to Department of Computer Science and Engineering, Bundelkhand Institute of Engineering and Technology, is a bonafied record of report done by **Harsh Saini** under Er. Sumit Mohan. I find the report complete, comprehensive and of ample high standard to warrant it's presentation for the examination.

I further certify that the report has been carried out under my supervision and has not been submitted earlier to any other institute or organization for any award.

Verified by guide

.....

Er. Sumit Mohan

(Department of Computer Science &
Engineering)

.....

Er. Hemant Kushwaha

(Department of Computer Science &
Engineering)

CERTIFICATE



ICT Summer Training Certificate

This is to certify that

Dr. / Mr. / Ms. Harsh Saini has successfully
completed a 4 week course (May-June 2019) on
Core Java
from ICT - Indian Institute of Technology, Kanpur

Date of Issue: 21-06-2019
System Identification No.: 7612-213222

Prof. B. V. Phani

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E & ICT Coordinators

PROJECT LETTER



Electronics & ICT Academy

Indian Institute of Technology Kanpur

An initiative of Department of Electronics & Information Technology (DeitY)
Ministry of Communications & IT, Govt. of India



Issue Date: 21/Jun/2019

To Whom So Ever It May Concern

This is to certify that the project entitled Java Talk, designed on Core Java is an original work carried out by Harsh Saini, Enrollment ID EICT-251461-213222, of E & ICT Academy, IIT Kanpur during his Summer Training Program at E & ICT Academy, IIT Kanpur for 4 weeks duration from May-June 2019.

The matter embodied in this project is a genuine work done by the student and has not submitted to the university or to any other University / Institution for the fulfillment of the requirement of any course of study.

Hope you have found all the above details in order.

Thanking you.

E & ICT Academy, IIT Kanpur.

This is an electronically generated project letter and does not require any signature

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Abstract

The project **Java Talk** is like a social networking site that connects a group of people. It was developed to run on the console window and was developed to run on a single computer system at a time that is why different users have to use the same PC to enter their details. Same like a social networking site, it enables the user to create his profile consisting of primary details, edit it when required. It also manages the records of the friend request are received, allows you to send a friend request who is already using Java Talk. A facility to chat is also being provided in this project. Few features like looking other's profile, blocking etc are also being provided in it. The basic purpose was to implement the concepts of OOPs with the help of Core Java and Database so as to create a basic implementation of any social networking site. The furthermore work on the same project can be led to understand how social networking actually works.

1. ABOUT INSTITUTE

1.1.INTRODUCTION ABOUT INSTITUTE -

About IIT Kanpur -

Indian Institute of Technology Kanpur (also known as **IIT Kanpur** or **IITK**) is a public engineering institution located in Kanpur, Uttar Pradesh. It was declared to be an Institute of National Importance by the Government of India under the Institutes of Technology Act.

Established in 1960 as one of the first Indian Institutes of Technology, the institute was created with the assistance of a consortium of nine US research universities as part of the Kanpur Indo-American Programme (KIAP). IIT Kanpur was the first institute in India to offer Computer Science education.

Introduction About E&ICT Academy -

Electronics & ICT Academy (E & ICT Academy) at IIT Kanpur was established in 2016 in partnership with the Ministry of Electronics and Information Technology (MeitY), Government of India. It is mandated to provide industry focused and industry-driven hands-on courses in electronics & ICT. E & ICT Academy strives to narrow the gap between the academic approach to electronics and ICT domains as currently provided by the educational institutions and the practically oriented approach as demanded by the industry.

1.2.BACKGROUND OF THE ORGANIZATION -

A. History -

It intends to work towards enhancing the domain expertise of interested faculties with a special focus on the faculties of the three northern states of U.P., Haryana, Punjab and the two union territories of Delhi and Chandigarh, through a continuous engagement model with courses upgraded regularly.

Though the courses are open to all, a special preference will be given to faculty from the three northern states of U.P., Haryana, Punjab and the two union territories of Delhi and Chandigarh. Currently, the academy is offering a variety of courses in the field of Information Technology, Electronics and Management domains, with several courses in the pipeline to be launched soon. We are offering a wide variety of courses for beginners as well as experts in R Programming, Python Programming, Machine Learning, Artificial Intelligence, Cloud Computing, Internet of Things, Data Mining and many more. Also, there is a variety of courses available in Hindi as well.

B. Projects -



An MoU was signed between CSJMU and IIT Kanpur

Date: 19-07-2019



An MoU was signed between AKTU and IIT Kanpur

Date: 09-07-2019



An MoU was signed today between Shri Shakti Degree College and ICT Academy at
IIT Kanpur

Date: 25-05-2019



WORKSHOP IN NOIDA (R.D. ENGINEERING COLLEGE) ON 06-05-2019

Date: 06-05-2019



WORKSHOP IN LUCKNOW (SRMCEM) ON 04-05-2019

Date: 4/05/2019



WORKSHOP IN KIT, KANPUR ON 22-04-19

Date: 22-04-2019



AKTU & EICT PLATFORM LAUNCH

Indian Institute of Technology Kanpur (IITK) and Dr. APJ Abdul Kalam Technical University (AKTU) formally launched an Information & Communications Technology platform at the Lucknow campus...

1.3.ORGANIZATIONAL STRUCTURE -

It intends to work towards enhancing the domain expertise of interested faculties with a special focus on the faculties of the three northern states of U.P., Haryana, Punjab and the two union territories of Delhi and Chandigarh, through a continuous engagement model with courses upgraded regularly.

COMMITTEES

- **Academic Council at MeitY**

Prof. Ashok Jhunjunwala, IIT Madras, Chairman

Mr. Jaideep Mishra, Joint Secretary, MeitY, Co-Chairman

The representative of HRD division, MeitY – Member Secretary

Representatives of NASSCOM, MAIT

- **Research Advisory Committee (IITK)**

Prof. B. V. Phani, Chief Investigator

Prof. Amey Karkare, Co- Chief Investigator

Head, Computer Science Engineering (IIT Kanpur) or his nominee

Prof. S. C. Srivastava (IIT Kanpur)

Mr. Ajay Bansal (Director, Digital Consulting, IBM)

Mr. Alok Mehta (Mobile Centric Bank Head, HSBC)

Mr. Nandan Mishra (Founder & CEO, Algo8

- **Academic Committee (IITK)**

Prof. B. V. Phani, Chief Investigator

Prof. S. C. Srivastava (IIT Kanpur)

Head, Computer Science Engineering (IIT Kanpur)

Head, Electrical Engineering (IIT Kanpur)

Head, Centre for Development of Technical Education (CDTE, IIT Kanpur)

1.4. TECHNOLOGIES -

40+ MUST KNOW CUTTING EDGE TECHNOLOGY



1.5.VARIOUS DEPARTMENT -

- **Computer Science:**

- Python
- Learn machine learning through python
- C++ programming-a practical Approach
- It tools and business systems
- Mobile computing-a practical approach
- Asp.net core mvc
- Practical java programming from scratch Etc.

- **Electronics:**

- Introduction to electronics
- An introduction to control system
- MATLAB and simulink in engineering education
- Control techniques and applications
- Management:
- Agile software development framework-scrum Etc.

- **Arts :**

- Effective pedagogy
- Azure data lake
- Advanced excel techniques
- Learn to create a MOOC course
- Introduction to photoshop
- Basic computer skills for business administration Etc.

- **Commerce:**

- Aws certified cloud practitioner certification
- Introduction to photoshop
- Basic computer skills for arts faculty
- Marketing for start-ups
- Entrepreneurship:
- Learn node.js, express and MongoDB
- Introduction to Joomla Etc

2. TRAINING /INTERNSHIP

2.1.INTRODUCTION –

Introduction to JAVA-

Java is a powerful object-oriented programming language introduced by Sun Microsystems in 1991. Java was originally called Oak, developed by James Gosling. Java has built-in system to create programs with a graphical user interface (GUI), utilize the internet, create client-server solutions, and much more. Programs written in Java can run, without change, on any of the common computer operating systems Windows 95/NT, Macintosh, and Unix. A variant of Java programs called Applets can be embedded inside a web page and execute on the computers that is viewing the page, automatically and in a secure environment.

As a language, Java is closely related to C++, which is also object-oriented but retains a lot of idiosyncrasies inherited from, its predecessor language C. Java has removed the inconsistent elements from C++, is executively object-oriented, and can be considered a modern version of C++. Because of its logical structure Java has quickly become a popular choice as a teaching language, and because of its extensive internet support and promise of writing program once and using them on every operating system Java is becoming more and more accepted in industry.

- Sun Microsystems released first public implementation as Java 1.0 in 1995.
- The language was initially called Oak, later the project went by name Green and was finally Java.
- Sun marketing people refer to all Java version 1.2 + as JAVA 2 and 1.5 + as JAVA 5.
- The current version of Java is Java 1.8 which is also known as JAVA 8.

2.2.COMPARISION CHART –

Comparison with C++

Java	C++
Java does not support pointers, unions, operator overloading and structure.	C++ supports pointers, unions, operator overloading and structure.
Java supports garbage collection.	C++ does not support garbage collection.
Java is platform independent.	C++ is platform dependent.

Java supports inheritance except for multiple inheritance	C++ supports inheritance including multiple inheritances
Java is interpreted.	C++ is compiled.
Java does not support destructor	C++ supports destructors.

2.3.BENEFITS –

1. **Simple-** All the syntax of java is like C++. There is no preprocessor, and much larger library. Confusing features such as: structure, pointer, go-to statement, operator overloading etc. are eliminated.
2. **Object-Oriented-** Java supports all the concepts of OPPs such as abstraction, encapsulation, inheritance, polymorphism.
3. **Platform Independent-** Java is based on the concept of WORA (Write Once Run Anywhere).
4. **Robust-** Java is one of the most robust programming languages, that is Java is more reliable. Java compilers can detect any errors in the coding. There are also other features like exception handling and garbage collection which makes Java more robust.
5. **Secure-** Java has no pointers. All pointer-related security problems are gone.
6. **Multithreaded:** Java is one of the programming languages to support Multithreading. Multithreading is the capability for a program to perform several tasks simultaneously within a program.

2.4.DRAWBACKS –

1. **Java is Slow-** Java is comparatively slower. I have been in the field for many years and the one problem of Java which always annoys a programmer is this drawback of the **Java programming language**.
2. **Java Takes More Memory Space-** This is one of the big problems in the Java language and developers of the language haven't been able to overcome this problem. Java takes more memory space than the other native programming languages like C and C++.
3. **Language Limited Latency Critical Tuning-** Java has limited options for latency critical tuning. If you have to spare every millisecond, java is not the best choice and instead use some other language in such a scenario.
4. **Java's Architecture Code is Inefficient-** Java's ability for producing portable, architecturally code is desirable, the method used to create this code is inefficient. Once java code is compiled into byte code, an interpreter called a java virtual machine, specifically designed for a computer architecture, runs the program.

5. **No Back-up-** It is mainly for storage and less efficient for data backup. So, Java loses its value and prestige in such cases. This is also a drawback that affects Java's rating

2.5.APPLICATION AREA –

1. **Android Apps-** If you want to see where Java is used, you are not too far away. Open your Android phone and any app, they are actually written in Java programming language, with Google's Android API, which is similar to JDK. Couple of years back Android has provided much needed boost and today many Java programmer are Android App developer.
2. **Server Apps at Financial Services Industry-** Java is very big in Financial Services. Lots of global Investment banks like Goldman Sachs, Citigroup, Barclays, Standard Chartered and other banks use Java for writing front and back office electronic trading system, writing settlement and confirmation systems, data processing projects and several others.
3. **Software Tools-** Many useful software and development tools are written and developed in Java e.g. Eclipse, and NetBeans IDE. I think they are also most used desktop applications written in Java. Though there was time when Swing was very popular to write thick client, mostly in financial service sector and Investment banks.
4. **Trading Application-**Third party trading application, which is also part of bigger financial services industry, also use Java. Popular trading application like Murex, which is used in many banks for front to bank connectivity, is also written in Java.
5. **Embedded Space-**Java is also big in the embedded space. It shows how capable the platform is, you only need 130 KB to be able to use Java technology (on a smart card or sensor). Originally Java was designed for embedded devices.

3. PROJECT

3.1. INTRODUCTION to JAVA TALK

The project Java Talk is a complete desktop-based application. The project deals with the reinforcement of the understanding of how social networking works. The theme of the project was set the same as we encounter in today's networking sites. The goal was not to create a fully professional, instant useable work but was to get the idea, how the backend programming is being done to carry out such a big task *i.e.* social network.

The privacy of an account is the biggest factor when someone is connected to any digital platform. Keeping this in mind every user has been provided with the password which only he can set. Also while setting a password the few conditions must be satisfied to ensure that the password is strong. Once after the authentication, a user will be directed to the screen where all the options will be available.

In a digital world, everyone shares his personal information so that anyone on the other side can check whether he is connected to the right person or not. For this shake the features like view and edit the profile have been implemented in the project. The very feature 'Explore' in the project allows the user to send a request to another person who is already a member of Java Talk. It depends on the user (who has received the request) whether to accept the request or decline. He can check out his updated profile, so as to know with whom he is going to connect with. Users can also block any person he is a friend with, blocked user would be unable to view the profile of him then.

Our goal would be incomplete if the facility of chat would not be provided in the project. Here two users can chat with each other, and the next time he will open the chat box, the previous chats will be available for him. Due to the limitation of knowledge, at one time only one message can be sent. Also for the quick response to any chat this section is divided into two parts, one of it is 'Recent Chat' where the names of the users you recently chatted with will be available. In the second option, all the names you are friends with will be present.

All the basic features were tried to implement in the project as perfectly as possible.

3.2. OBJECTIVE OF THE PROJECT-

3.2.1 Primary objective-

The primary objectives of the project are mentioned below:

- To fulfil the requirement for achieving the bachelor's degree of Computer Information System.
- To know how the backend programming is being done with the help of Core Java.

3.2.2 Secondary objective-

The secondary objectives of this project are mentioned below:

- To get the idea of how the social network site work.
- To create a social network.
- Sharing of thoughts via chatting.
- Maintaining profile on a regular base.
- Regular checking for a new friend.
- To block any person creating any problem.
- Implementation of own ideas to solve a real world problem.

3.3. FEATURES OF PROJECT

This application provides the details of the persons who are present in the Java Talk. Allows the user to connect with a lot of persons, to check the profile of others, update own profile etc. The details components are described below:

- **Authentication page:** As applications starts the login page appears. If the user is new he would be required to Sign-up, giving the username and password and some basic information. If the user is not new he has to Login using username and password.
- **Home page:** The following options are present on this page-
 - **View Profile:** It shows the personal details of the user. These details will be visible to others who are using java Talk.
 - **Edit profile:** It allows to edit the pre-entered details and also allow to enter the new details.
 - **Explore:** The persons using the Java Talk will appear in this page. If you want to connect with more friends you have to send the friend request, facility available only on this page.
 - **Requests:** If user will receive any request from other users, it will be available on this page.
 - **Chats:** It shows the names of the friends you can chat.
 - **Delete Id:** If you don't want to use your Id you can delete it on this page.
 - **Log Out:** It will logged you out from the current window.

3.4. SCOPE OF THE APPLICATION

Java Talk is targeted to implement the basic features of the social networking sites. It is being designed for the console window, so at a time only one persons can run it. Some of the scope is:

- There is no admin, each person's Id is being protected by the unique password only the user know.
- It is security driven.
- A lot of persons can be added or deleted.
- Chats can be done between as many persons.

3.5. REQUIREMENT ANALYSIS

We collected a number of requirements for project from our primitive research, website visits, and interview to the concerned personnel and their experiences regarding the concepts of its development. We have even checked a number of social networking sites and analyzed it to develop the project by fulfilling all the weakness that was found in the application. We then decided to builds same type of application with different logic flow and new language which will be suitable for all.

3.5.1. Functional Analysis.

- **Users Requirement**

- Able to use the unique user Id and set the password.
- Able to edit the details.
- Able to view the profile.
- Able to view others' profile.
- Able to block any friend.
- Able to connect with new friends.
- Able to chat with ant friend.
- Able to delete own Id.

3.5.2. Non-Functional Analysis

- **Feasibility Analysis**

This software has been tested for various feasibility criteria from various points of view.

- **Technical Feasibility**

Development of the system requires tools like: Microsoft SQL server 2008, etc., which are easily available within the estimated cost and schedule.

- **Operational Feasibility**

The system provides better solution to the libraries by adding the typical requirement and necessities. The solution provided by this system will be acceptable to ultimate solution for the stock management.

- **Schedule Feasibility**

The organized schedule for the development of the system is presented in the schedule sub-section. The reasonable timeline reveals that the system development can be finished on desired time framework.

4. DESIGN

4.1 DATABASE DESIGN

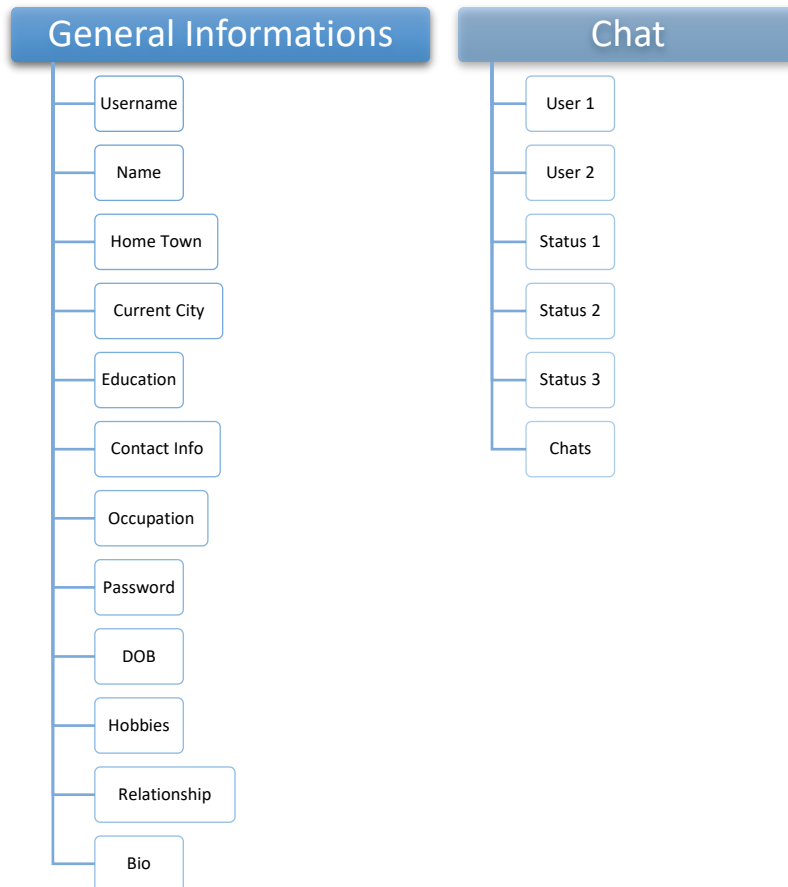
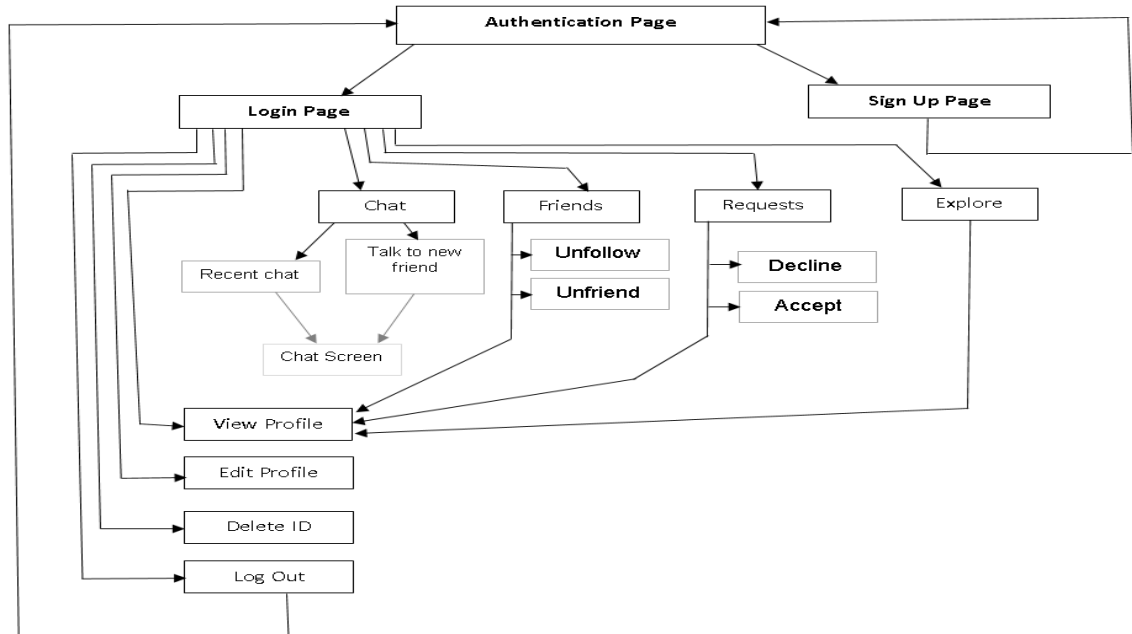


Fig 3.1 The ER diagram for Database Design

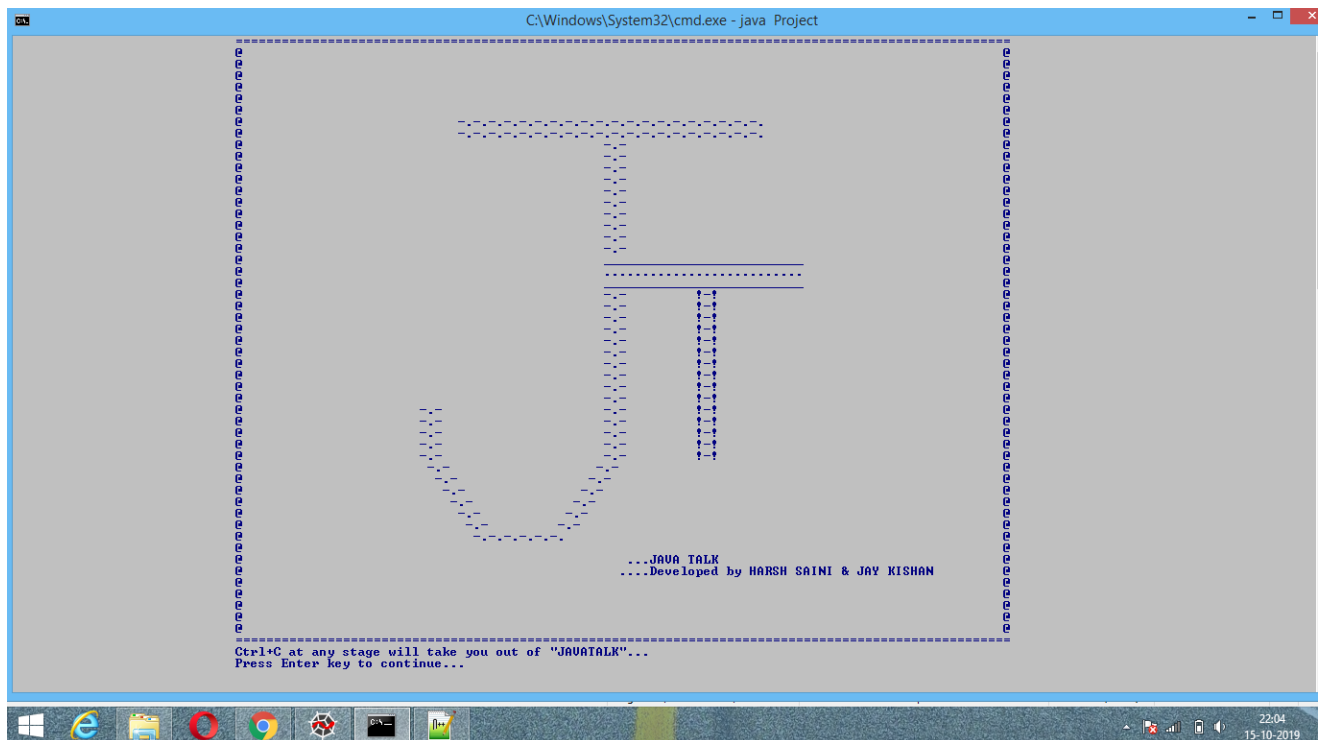
4.2 DATA FLOW DIAGRAM



Data Flow Diagram or Flowchart is a diagram which uses geometric symbols and arrows to define the relationships. It is a diagrammatic representation of the algorithm. The Process flow Diagram of our application is shown below:

Fig 3.2 Java Talk Data flow diagram

5. PROJECT SNAPSHOTS AND TABLE



JAVATALK: This is the main page that appears as we open JAVATALK on the console screen.



Authentication Page: As we press any key, this authentication page appears on the console screen. It has two options: First is for LOGIN and Second for SIGN UP.

Sorry...This UserName already exists...Please choose your unique UserName....

!!!! SignUp !!!!

Enter Username	:	jay_harsh
Enter Name	:	Jay kishan
Set Password(min 6)	:	harsh@123
Enter DOB(dd/mm/yyyy)	:	28/07/1999
Enter Contact info	:	9721751919
Choose your Gender	:	
1> Male	:	
2> Female	:	
3> Others	:	1

Congratulations.....You are Successfully signed up

SIGN UP Page: This page provides the option to the user to get himself or herself open his or her account on Javataalk. Here the user need to enter unique userid, a password with minimum 6 characters (to ensure that the strength of the password is good), and some other details. These entries are stored in the database.

!!!! Login !!!!

Enter Username : jay_harsh

Press 's' to enter Hidden Password....else press any other key to enter Visible Password
k

Enter Password : harsh@123

Login Page: Login Page authenticates the authorized user. Here, feature of hidden password has also been included. One can enter the password without showing it.

```

      !!!!      Welcome Jay kishan      !!!!
      _____

1) View Profile
2) Edit Profile
3) Explore
4) Requests
5) Friends
6) Chats
7) Delete Id
8) Log Out

Please choose : _

```

Home Page: Once the user enters the correct userid and password (which is matched with the one stored in the database), he enters the homepage of his profile. Here the user has different options. He can view and edit his own profile. He can explore the world of JAVATALK, request people to become friend, chat with his friends, and even can delete his Id. One option of Log Out from the profile is also provided.

```

      !!!!      Update_Profile      !!!!
      _____

1) User_Name
2) Home_Town
3) Current_City
4) Contact_Info
5) Occupation
6) Education
7) Relationship
8) Hobbies
9) Bio
10) Log Out
11) Previous Menu

Please enter the field you want to update

```

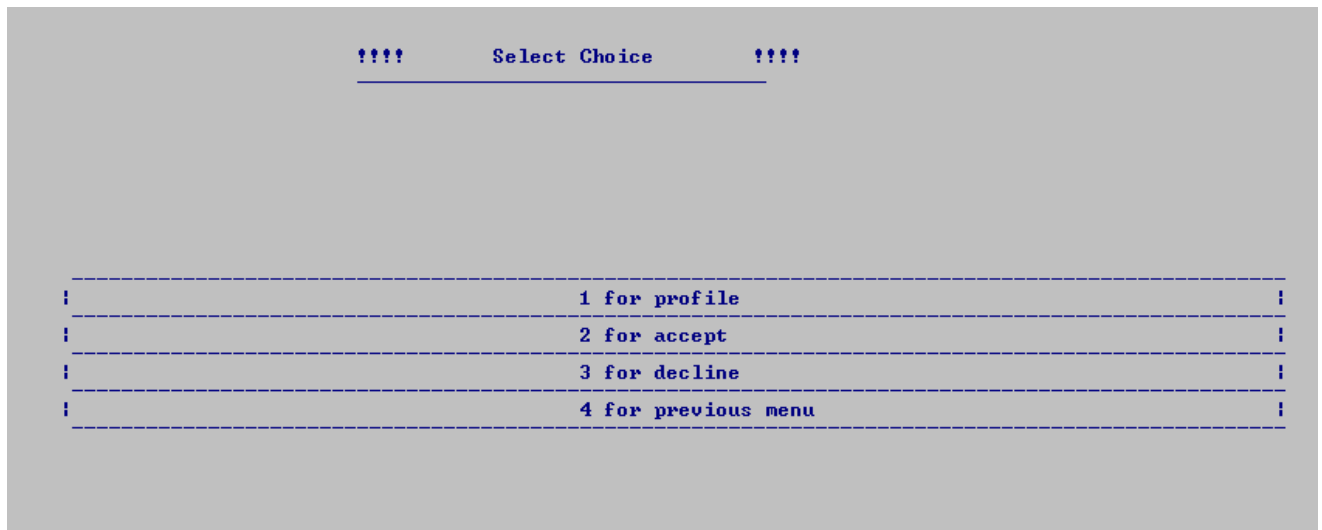
UPDATE PROFILE: This page provides facility to the user to update his/her profile. One can update his/her details like education, current address, occupation, relationship status, hobbies, etc. All updated info is also updated in the database. One gets option of direct log out from this page also.

!!!! Profile !!!!		
* Name	:	Jay kishan
* HomeTown	:	Kannauj
* Current City	:	Jhansi
* Education	:	B.Tech
* Gender	:	Male
* Working as	:	Student
* Contact	:	9721751919
* DOB	:	28/07/1999
* Bio	:	null
* Relationship	:	Single
* Hobbies	:	Dance
Please choose 1) Back to Previous Page 2) Logout		

Profile: Once updated, user has been provided the feature to view his own profile as well.

!!!! Explore !!!!		
S.No	User ID	Name
1	Dil_Patel	Dileep
2	Harsh_Saini	Harsh
3	jay	Jaykishan
4	Jay_kishan	Jaykishan
5	jk_1999	Jay kishan
6	Mansi	mansi katiyar
7	Ram_Bhalla	Raman
8	Rav_Kumar	Raveet
9	santosh	santosh kumar

Explore: User can explore the world of JAVATALK. Here the user can see the list of people currently using JAVATALK. These are those people whose data is available in the database.



Select Choice: This page is to provide the facility to the user to know more about the person who has sent him/her request, and can accept or decline the request.



Enjoy Chat: The most interesting and common feature of all social networking sites and apps i.e. chat is also added in JAVATALK. Here, similar to other apps and sites, chat is possible between two friends. The appearance of the messages is similar to, as we see generally in whatsapp or facebook messengers. The chat can be deleted only from one way and that is deleting it from the database directly.

!!!!				Select any option :		!!!!	
<hr/>							
<hr/>							
1	:	View profile				:	
2	:	Unfollow				:	
3	:	Unfriend				:	
4	:	Previous menu				:	
<hr/>							
-							

This page has some options that appears when we open profile of any of our friend. Here, one can view profile of his/her friend. One can unfollow or unfriend also. Once unfollowed, that person would not be able to view the user's profile.

CONCLUSION

In today's modern and growing era, one needs to be active and connected with others. Since, everyone is quite busy, so it becomes almost impossible to connect to our loved ones. Here, social networking shows its significant role. With its help one can easily take care and be in contact of their relatives and their close friends, no matter how far they are. So, social networking is not just for fun, one uses it in his/her busy life as a need as well.

To conclude, JAVATALK is a console based social networking project developed using CORE JAVA and database MYSQL. It has basic elements of social networking like chat, explore, making friends and many more. Once bored, one can even delete his account as well. All the data is stored in the database, so one can easily access it anytime. Login credentials include unique User Id and Password with a minimum criterion to meet the requirement of its strength.

Questions/Answers

Q1. What Computer Science and Engineering related task did you perform in your training?

Ans. All around the world, programmers are faced with the complexities of simultaneously striving to retain constant manufacturing operation, render quality and adequate services to customer and keep goods at optimum level as well as having proper social networking managing policy in place.

- ☐ As company grows a number of problems also arises first, a variety of items are needed to be maintained in the database making it difficult to the managers to keep track, therefore a formal record keeping will have to evolve, besides that as quantities in records grows more space is required to do business. Due to local and global competition any company that must survive in the competitive world must take an advantage of effective management of its inventory seriously therefore the use of intelligent approach for effective and efficient programming has become indispensable.
- ☐ This work developed an intelligent system implemented in a web based environment to integrate multiple stores also providing an effective coordination of all of the stores, intelligently determining the different reorder points of all the disparate stores in the systems and communicating the information back to the centralized store using Java Remote Method Invocation (RMI) with a secure socket layer (SSL), implemented using My Structured Query Language (MySQL), Database Management System, Hypertext Markup Language (HTML), JavaScript, Hypertext Pre-processor (PHP) and Xampp (Apache).
- ☐ The work optimized the performance of site integrating multiple systems and providing an efficient coordination and monitoring moving away from single store into distributed system relating real time status of supplies at the different stores

Q2. What is the relationship of the work to your major study?

Ans. The Java Talk is a real-time database capable of connecting multiple persons. This can be used to keep the records of many a user providing security to each user's data.

It helped me in learning key concepts of backend programming and coding. It also helped in understanding how databases work and even I implemented SQL in my project. All the data is being stored with some security features so the data

will be available only to the correct user. This helped me to understand how the social network actually works and what are the loop holes in the security of these sites. Our projects idea is helpful for a lot of reasons, Including:

- ☐ For those who are very new to programming can understood how networking works creating project like this.
- ☐ This gives the information and ideas where the attackers can attack.
- ☐ How to implements the OOPs concepts.
- ☐ Project's idea can led to make a bigger digital platform.

Q3. How interesting and challenging was it?

Ans. Since this is our first project it has some limitation. Due to less knowledge in particular fields and limited time we were not able to fulfil all our expectations that we expected we could do while the project got started. We hope these limitations are considerable. Some of the project limitations are:

- This application is not suitable for those organization where there is large quantity of product and different level of warehouses
- This software application is able to generate only simple things.
- No admin is there in the application.
- It is not suitable for large organization.

Java Talk is a simple desktop-based application basically suitable for small organization. It has every basic item which are used for the small organization. Our team is successful in making the application where we can update, insert and delete the item as per the requirement.

Q4. What did you learn from your experience?

Ans. Doing something for long time periods always gives good lesson. Some of the things that our team learnt are listed as below:

- Basically, we learnt to work in team.
- Learnt about the process.
- Learnt to work in pressure and to be patient.
- Learnt to manage the database under Microsoft SQL server 2008.

Q5. What were the benefits to you?

Ans. Since this project was started with very little knowledge, we came to know about the enhancement capability during the process of building it.

Some of the scope we can increase for the betterment and effectiveness oar listed below:

- Interactive user interface design.
- Manage data.

- Use of Oracle as its database.
- Online payment system can be added.
- Making the system flexible in any type

