

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590 018, KARNATAKA**



**CN MINI PROJECT REPORT ON
“FILE SHARING SYSTEM”**

PROJECT ASSOCIATES

**Prajwal M V
Ratan Shet**

**4BD21CS098
4BD21CS116**

PROJECT GUIDE

Dr. Santosh K C
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**Department of Computer Science and Engineering
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Department of Computer Science and Engineering

CERTIFICATE

This is to certify that **Prajwal M V and Ratan Shet** bearing USN **4BD21CS098** and **4BD21CS116** respectively of **Computer Science and Engineering** department have satisfactorily submitted the mini project report entitled **“FILE SHARING SYSTEM”** for Computer Network (**21CS52**). The report of the mini project has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the year 2023-24.

Dr. Santosh K C Ph.D.,
Associate Professor
Guide

Prof. Shankar Sarji P M.Tech.,
Assistant Professor
Co-Guide

Dr. Nirmala C R Ph.D.,
Head of Department

Signature of Examiners:

Examiner1 Name: _____

1. _____

Examiner2 Name: _____

2. _____

ACKNOWLEDGEMENT

Salutations to our beloved and highly esteemed institute, “**BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY**” for having well qualified staff and lab furnished with necessary equipment’s.

We express our sincere thanks to our guide **Dr. Santosh K C, Prof. Shwetha G, Prof. Shankar Sarji and Dr. Naseer R** for giving us constant encouragement, support and valuable guidance throughout the course of project without whose guidance this project would not have been achieved.

We express whole hearted gratitude to **Dr. Nirmala C R**, H.O.D of Computer Science and Engineering Department. We wish to thank her for making our task easy by providing her valuable help and encouragement.

We also express our whole hearted gratitude to our principal, **Dr. H B ARAVIND** for his moral support and encouragement.

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Ratan Shet 4BD21CS116
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Vision and Mission of the Institute

Vision

“To be centre of excellence recognized nationally and internationally, in distinctive areas of engineering education and research, based on a culture of innovation and invention.”

Mission

“BIET contributes to the growth and development of its students by imparting a board- based engineering education and empowering them to be successful in their chosen field by inculcating in them positive approach, leadership qualities and ethical values.”

Vision and Mission of the Computer Science and Engineering Department

Vision

“To be a centre of excellence in imparting state-of-the-art technology in the field of Computer Science and Engineering education enabling the students to become professionally sound and ethically strong”.

Mission

1. Adapting best in class teaching and learning methodology to mould the students to become industry ready.
2. Creating conducive environment for imparting quality education the facilitate research and Innovation.
3. Establishing industry relationship to bridge the skill gap.
4. Educating the students to be successful lifelong learners by inculcating ethical values and social responsibilities.

1. Program Educational Outcomes (PEOs):

PEO1	To provide students with adequate knowledge in mathematics, computer science and few interdisciplinary courses that gears them for advanced technology.
PEO2	To impart core knowledge in both hardware and software with problem solving techniques.
PEO3	To conduct effective training programs in order to explore and enhance their skills to synchronize with dynamic industry practices.
PEO4	To motivate students for higher studies and to involve in research.

2. Program Specific Outcomes (PSOs):

PSO1	Able to understand, analyse and develop simple to complex programs with the help off knowledge gained from the Computer Science and Engineering subjects.
PSO2	Ability to develop real time, secure and distributed applications related to industry and society with the knowledge of courses like Artificial Intelligence, Machine learning, Big Data, Cloud Computing, IoT, Cyber Security and Open-source Platforms.
CLO 1 CLO 2 CLO 3 CLO 4	Course Objectives: This course will enable students to: Fundamentals of data communication networks. Software and hardware interfaces Application of various physical components and protocols Communication challenges and remedies in the networks. Course Outcomes: At the end of the course the student will be able to: CO 1 Learn the basic needs of communication system. CO 2 Interpret the communication challenges and its solution. CO 3 Identify and organize the communication system network components CO 4 Design communication networks for user requirements.

ABSTRACT

The File Sharing System, a Java-based network application, employs socket programming to establish secure communication between a central server (FileServer) and multiple clients (FileClients). The system offers a user-friendly interface facilitating file listing, downloading, and uploading over the network. The server maintains a directory of available files, ensuring users can seamlessly navigate and access shared resources. Emphasizing data integrity, security, and an intuitive experience, the project excels in concurrent connections and robust file transfers. Key functionalities include file listing, enabling users to view available files, downloading selected files to the client machine, and uploading new files to the server. Leveraging Java's socket programming capabilities, the application illustrates the efficiency of networked file-sharing, with potential enhancements focusing on advanced security measures and user authentication. Overall, the project showcases Java's prowess in building a reliable, secure, and accessible file-sharing system in a networked environment, meeting the demands of contemporary file exchange challenges.