**REAL-TIME FILE SHARING**

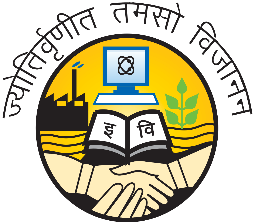
*Synopsis*

*Submitted in partial fulfilment of the requirements for the award of the degree of*

**Master of Computer Application (MCA)**

**To**

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI**



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| Supervisor:  Ms. Sonia Batra  Project Guide | Submitted by:  Tarun Anand Goyal  Roll No.:00911104422 |



**BANARSIDAS CHANDIWALA INSTITUTE OF INFORMATION TECHNOLOGY**

**KALKAJI, DELHI-110019**

**MCA - 269**

**Real-Time File-Sharing Application**

Introduction: The Real-Time File-Sharing Application is an innovative web-based

system that allows users to create unique rooms for sharing files in realtime. This project utilizes a combination of HTML, CSS, JavaScript,

Node.js, and Socket.io to enable multiple users to join a specific room ,upload files from the sender's side, and seamlessly download them on the receiver's side.

The primary objective of this application is to provide a convenient and efficient method for users to share files with one another in a collaborative and real-time manner. By generating unique room IDs and enabling secure file transfers, this application offers a seamless filesharing experience.

**Technologies Used**

HTML: Provides the structure and content of the web application, allowing users to interact with the interface.

CSS: Enhances the application's visual appearance and layout, creating an intuitive user experience.

JavaScript: Adds interactivity and dynamic functionality to the application, facilitating real-time updates and file transfers.

Node.js: Acts as the server-side JavaScript runtime environment, enabling efficient file handling and processing.

Socket.io: Facilitates real-time, bidirectional communication between the web browser and the server, allowing for seamless file transfers and room management.

**Objectives**

1. Develop a user-friendly and intuitive web-based file-sharing application: The primary objective is to create a user-friendly interface that allows users to easily navigate, upload, share, and download files in a seamless manner. The application should provide a smooth and intuitive user experience.
2. Enable real-time file sharing: Implement real-time communication using Socket.io to facilitate instant updates and notifications when new files are uploaded or shared within a room. The application should provide a collaborative environment where users can interact and exchange files in real-time.
3. Implement room-based file sharing: Create a system where users can create unique rooms and share the room ID with others to allow them to join the same room. The application should support multiple users within a room, enabling them to share files with one another.
4. Support cross-platform compatibility: Develop the application to be compatible with multiple web browsers and operating systems, ensuring that users can access and use the application on different devices and platforms.

