

**WEB-BASED FILE EXCHANGE UTILITY WITH DRAWBOARD  
FUNCTIONS**



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**WEB-BASED FILE EXCHANGE UTILITY WITH DRAWBOARD  
FUNCTIONS**

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## **ABSTRACT**

This project is a web application that runs mainly on different web browsers. It focuses generally on file sharing with real-time communication, thus grants convenience to the users. This Web-based File Exchange Utility with Drawboard Functions has authentication for the login, whiteboard chat for the interaction of the users and notes that could also be shared within each of the chat rooms available for each group. Basically, for the user to have access in the application, the user must have an account which is available for creation in the introduction part of the application. The information that the user has input to create the account will be saved directly in the database server. In return, the database server will identify if the user's credentials were already saved previously so as to avoid duplicated usernames. When the user successfully acquired an account, the latter can either create or join in a room. A room is basically a private virtual space where persons who have access rights to that room can collaborate through the text-based instant messaging and whiteboard functions that the application has to offer. When creating a room, the user must specify the room name and the password prior to successful creation of the room. In cases that an existing room name is already taken by some other users, it is mandatory for the application to ask for another unique room name. Duplicated room names will not be accepted to avoid confusion for the users. If the room is already created, users who knew the password can already join in the room for real-time collaboration within the users in that room. Users are granted to have unlimited storage capacity for file sharing, illustrate with different colors, strokes and shapes so as to provide easier designs and diagrams using the Drawboard whiteboard chat and share notes for important matters that needed to be shared and escalated within the team. However, a user can only join one room at a time. With the use of MySQL

and PHP, it is possible for the web-application to register a user's data, log in a data registered, collaborate through text-based chat and send or receive files from another user. Javascript was used for the different functionalities of the application. The background and the design for the user interface part were made through HTML and CSS; these were used to control how the pages are presented and make pages accessible. This application was made to help students, teachers and other users who are working on a project as a group to suitably interact and share their files with other users within their respective group. Users who want to just have fun can use this application too as they can doodle freely using the Drawboard. File exchange utility with Drawboard functions is a convenient way to pool resources because its nature is a web-application wherein users can access it directly in the web browser without installing and downloading the application. However, it is not possible whenever the user wants to access the application without an internet connection.

Keywords:

Web Application, JavaScript, file sharing, HTML, real-time, CSS, PHP, MySQL, whiteboard chat, chat rooms, Drawboard

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# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 Background of the Study**

Internet browsers are one of the means and the primary mode to access the web where users often share files through their online groups, e-mails and online file sharing sites.

Developing a web application with an integration of a whiteboard chat where users can access the application with just a click away in their browser will surely add convenience in the manner of sharing files and collaborating with internet users. Users will no longer download the application because it is already accessible via the web-browser for easy access. This web application is capable of handling file sharing within the members of a certain group wherein when a group is created, a certain room for that group will also commence automatically after fulfilling the registration requirement of room creation like providing a room name and password. Online collaboration within the groups' members will also happen through the application's whiteboard chat where the members can illustrate and scribble for better communication. Posting of notes is also available in each group's room for any important matters that a member would like to announce to the entire group.

### **1.2 Technology Application Context**

Web-based File Exchange Utility with Drawboard Functions is for all users who have registered their accounts in the application. This web application enables file sharing, posting of notes for the users' convenience and real-time whiteboard chat for their collaboration. MySQL and PHP were used for the storing of data in the features such as in the registration

and login, chat, file transfer and posting of notes and JavaScript for the functionalities of the application and we used CSS as well for the design.

### **1.3 Objectives of the Study**

The main objective of this study was to develop a web application that has a file transfer and a real-time chat. The specific objectives were the following:

- To provide a real-time whiteboard chat and file sharing with independent sessions per room
- Individual notes from the notes application must be capable of being shared with other users.
- All services must come from the same server.

### **1.4 Significance of the Study**

The significance of having a web-based File Exchange Utility with Whiteboard Chat Functions is to help students, teachers and other users who are working on a project as a group to suitably interact and share their files with other users within their respective group. This web application will be more accessible since it is running in a browser and it can be accessed easily. Through the real-time whiteboard chat, users will be able to communicate collaboratively with their peers as they can illustrate spontaneously.

### **1.5 Scope and Limitations of the Study**

The major output of the project is a web-based File Utility with Whiteboard Chat Functions. The following are the project's limitations and scope:

- User has to have a registered account to gain access to the application
- Users can only join one room/group at a time.
- Unlimited storage capacity
- The application only runs in web browsers

## **1.6 Definition of Terms**

Note – an idea tool for effective reminders

Whiteboard – a tool for online collaboration where users can illustrate using drawing tools

Rooms – virtual rooms that will allow users of the same group to work and interact together