

# **COMSATS University Islamabad, Wah Campus**

## **Project Proposal**



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## **1. Overview:**

In this proposal, we will develop a file manager using JavaFX that allows users to organize and manage their files in a more efficient way. This file manager will provide a simple and intuitive user interface to browse, create, move, copy, delete, and rename files and directories.

## **2. Features:**

File and directory operations: Users can perform basic file and directory operations like creating, moving, copying, deleting, and renaming files and directories.

File search: Users can search for files using different criteria such as name, size, date, and extension.

File preview: Users can preview files like images, videos, and documents.

Drag and drop: Users can drag and drop files and directories to move or copy them to another location.

User-friendly interface: The file manager will have a simple and intuitive interface that allows users to access and manage their files easily.

Keyboard shortcuts: Users can use keyboard shortcuts to perform file operations quickly.

## **3. Technology:**

JavaFX: JavaFX is a modern UI toolkit that provides rich graphical user interfaces for desktop and mobile applications.

Apache Commons IO: This library provides utility classes for working with files and directories.

Java NIO.2: This is a new I/O API for working with files and directories introduced in Java 7.

## **4. Project Plan:**

Requirement gathering: Gather requirements and create a detailed specification document for the file manager.

UI design: Design the user interface of the file manager using JavaFX.

File and directory operations: Implement basic file and directory operations.

File search: Implement file search functionality using Java NIO.2.

File preview: Implement file preview functionality for common file types.

Drag and drop: Implement drag and drop functionality to move and copy files and directories.

Testing and bug fixing: Test the file manager and fix any bugs or issues that arise.

Documentation: Create documentation for the file manager.

## **5. Conclusion:**

In this proposal, we have presented a plan to develop a file manager using JavaFX. This file manager will provide a simple and intuitive user interface to manage files and directories efficiently. By using JavaFX, Apache Commons IO, and Java NIO.2, we can develop a robust and reliable file manager that meets the needs of users.