Development of a File Management Application for Mobile Devices Using Android

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***Abstract*—This thesis develops an Android file-management application for mobile devices. The author studies Android file organization and builds functions to browse directories, copy, move, rename, delete, compress, and decompress files. The application can open content through installed programs and includes multi-selection, search, bookmarks, sharing, shortcuts, and file-property views. The original conclusion identifies modification of file permissions as unfinished and proposes more integrated functions and interface customization. It does not describe a formal user trial or a test group of a specified size. This paper summarizes the documented implementation and the author's stated limits.**

***Index Terms*—Android, file management, mobile application, file system, user interface, data management**

I. Introduction

The thesis explores the development of a file management application for Android devices, emphasizing the importance of data management in the digital age. Android, an open-source operating system, is chosen due to its widespread use and rapid development. The study aims to provide a tool that simplifies file management, supports various file operations, and integrates with existing applications. The research covers the Android file system and its architecture, comparing it with other operating systems. The application was developed to support various file operations and integrate with installed applications to open files. The study highlights the importance of data management in the digital age and the potential of Android as a platform for developing such applications [1].

II. Methods

The student studied the Android file structure and designed an interface for navigating directory trees and choosing file operations. The source discusses development with Eclipse and Android tools, followed by implementation of copy, move, rename, delete, compression, search, sharing, shortcuts, and bookmarks. Installed applications are used to open supported content types. The manuscript records implemented functions and remaining work but does not describe a formal multi-device compatibility study or a recruited user-feedback group. The method is mobile application design and functional implementation based on the Android platform [1].

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III. Results

The original conclusion lists a visual directory tree, a menu for file operations, copying, moving, renaming, deleting, compression and decompression, and links to installed applications for media files. It also reports multi-selection, search, file information, sharing, shortcuts, bookmarks, and identification of large files. File-permission changes were not implemented. The thesis does not report a user sample of any stated size or measured usability scores, so those claims are excluded. The supported result is the implemented feature set and the explicitly acknowledged missing permission function [1].

IV. Discussion

The application brings several common file operations into a single Android interface and lets users open some files through other installed applications. The author's conclusion describes the directory display and menus as easy to use, but this is not backed by a formal user study in the source. The inability to change file permissions is a functional limit, and more integrated operations and interface customization are proposed for later versions. The work supports a description of implemented features and design decisions, not a quantified comparison with other file managers [1].

V. Conclusion

The student implemented an Android file manager with directory browsing, standard file operations, compression, links to installed apps, selection, search, bookmarks, sharing, and shortcuts. The original thesis says file-permission modification remained unavailable and proposes further features and customization. It does not document a twenty-person user test or broad compatibility measurements. The contribution is therefore a functional mobile application and a stated development plan. Evaluation with actual users and devices would be needed before making stronger usability or reliability claims [1].

References

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