



CompressPro

Project
Proposal Report
Course Code: SE 2112
Course Title: Software Project lab-1

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Introduction

CompressPro is a file compression and decompression project that aims to provide a reliable and user-friendly software tool for compressing and decompressing files of various types. The project is being developed by a team of experienced software developers and is designed to meet the needs of both individual users and organizations that require efficient file compression and decompression capabilities. The main goal of **CompressPro** is to provide a fast, secure, and reliable file compression and decompression tool that can handle a wide range of file formats and sizes. The project will be based on a powerful compression algorithm that will be optimized for speed and efficiency, allowing users to quickly compress and decompress files without sacrificing quality or data integrity.

Objectives

- Provide an Efficient File Compression and Decompression Tool.
- Implementing File Compression and Decompression Algorithm.
- Provide facility to choose efficient algorithm for compressing and decompressing different type of file.
- Solve extra memory issue
- Transmit data more faster without losing the original quality of data

Application Features & Description

CompressPro is a file compression and decompression software project that aims to provide a fast, secure, and user-friendly tool for compressing and decompressing files of various types. Some of the key features of **CompressPro** are as follows:

- **Support for Multiple File Formats:** **CompressPro** will support multiple file formats, including text, doc, pdf and others. Users will be able to compress and decompress files of various types and sizes with ease.
- **Advanced Compression Algorithm:** **CompressPro** will use a powerful compression algorithm that will be optimized for speed and efficiency. This will allow users to compress and decompress files quickly without sacrificing quality or data integrity.
- **Multi-Threaded Processing:** **CompressPro** will use multi-threaded processing to speed up the compression and decompression process. This means that users will be able to compress or decompress multiple files simultaneously, saving time and increasing efficiency.

Target Customer

- Students
- Teachers
- All users of computer
- All user of internet

Model, Tools and Language

Model	Tools	Language
<ul style="list-style-type: none"> • Waterfall 	<ul style="list-style-type: none"> • NetBeans • JDK 	<ul style="list-style-type: none"> • Core JAVA

Proposed Timeline

Month 1:

- Define project scope and requirements.
- Conduct research on file compression and decompression techniques.
- Develop the core algorithms for file compression and decompression.

Month 2:

- Refine the software based on feedback from initial testing.
- Prepare documentation and user manuals.

Month 3:

- Conduct final testing and debugging.
- Conduct user acceptance testing.
- Make final refinements to the software.

Challenges

- Implementing Algorithm
- Time management
- Ensure Performance
- Security risk
- Capability issues
- User interface

The End