**Jamia Millia Islamia (A central university)**

**Department Of Computer Science**

**Final year project synopsis**

**Project Title**

Document editor with version control and collaborative editing

**Supervisors:**

**Internal:** Dr. Syed Zeshaan Ahmed

**External:** Ms. Ayushee Rastogi

**Organization:** VectoScalar Technologies Pvt Ltd

**Generic Goals**

To develop a utility software for novelist, writer, editors or scholars which give user the power of collaborative working and controlling various versions.

**Problem Description**

Writing a book or research paper is a huge project every writer spent lot of time only for writing and editing same paper. And for comparing new changes with previous one they need to create a new copy and edit that document in ms word or other editor until they don’t have a version control like git which can be implement with all word editor. Every writer or editor has face this problem while doing there project.

**Project Objectives**

* To learn about version control system
* To develop a system that not only manage and edit but also protect digital content by encrypting it.
* Lean collaborative system design (operational transformation)
* To understand technologies that works on cross platforms.
* To get deep understanding of socket programming.
* Learn how to create cross platform software.

**Challenges:**

* Collaborative system always suffers from conflicts and may generate multiple copy of same file on server because we cannot apply reader writer algorithm or mutex in this type of system.
* Creating an architecture for version control system is always a challenge.

**Deliverables**

* Preliminary & Intermediate Report
* An editing software with version control that can be used for creating any type of documents.
* Final Project Report

**System Functions**

* Word editor
* Control versions of same document
* Shows difference between edited and changed document live.
* Give user the ability of merge, change and revert the new changes.
* Give option to encrypt the file using Private key (RSA)
* Group and decision making system
* Can send link to any person for collaborative working.

**Monthly Schedule**

* First month create the word editor with basic functionality.
* Second month add version control system and create algorithm in python for operational transformation.
* Third month create encryption and decryption system with admin and normal user permission.

|  |  |
| --- | --- |
| Signature of Supervisor  (External)  Company Name: | Signature of Supervisor  (Internal) |
| Student Name & signature |  |

Idea flip

<https://www.portent.com/tools/title-maker>

<https://www.copyblogger.com/problem-agitate-solve/>

It’s a huge project

All the effort and time put into writing a scene can all go for naught if it doesn’t mesh *just right* with your story. It doesn’t matter if it’s your favorite scene: If it’s not right for your book then it’s not right for your book—and has to be cut. Deleting your writing, especially words you’ve sacrificed so much to create, can be incredibly painful. But you do it in spite of the pain because, deep down, you’re tough as nails and you know your book will be better off for it.

research, writing, editing, redrafting and so on. Committing oneself to seeing this through is challenging, and probably why so many would-be authors never actually make it to the end of their books

https://www.youtube.com/watch?v=2auwirNBvGg