Real-time Collaborative Notepad

Introduction:
The project is to create an online document editor (similar to Google Docs) that supports collaborative editing in real-time. Multiple users can collaborate simultaneously to edit a document. Changes made by one will be instantaneously make available to others.

Features:

- User registration and login
- User can create / edit a document. Document will be saved online and their list shall be maintained for each author.
- Support for formatted text
- User can invite other online users for collaborative editing
- Changes to the document shall be instantaneously made available to other users in the collaboration.
- User shall be able to export / download the document
- Integration with Dropbox / Google Drive

Rules:
- Only one user can make changes to the document at one point in time.
- If a user is editing document, then others shall wait till the current user is finished
- Other users need to be informed who is currently editing the document and when that editing is done

Examples:
- Google Docs (http://docs.google.com)
- Dropbox Paper (https://www.dropbox.com/paper)

Deliverables:
1. Prototype: 13th March 2020
2. Final: 4th May 2020

Mockup:

A mock-up illustrating the editor interface:

File | Export | Collaborate |Help

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Action: User-1 editing   Active users list

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