

PSG COLLEGE OF TECHNOLOGY, COIMBATORE – 641 004
Department of Applied Mathematics and Computational Sciences
II MSc SS – Package Abstract

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Package Title	coEdit (A Collaborative Text Editor)
ABSTRACT	
<p>Co-Edit is a real time collaborative editor scalable to any number of simultaneous real time users. One of the difficulties when we work in a group is to team up in a proficient manner. Additionally, working from a distance with a group is a bad dream particularly when we make a report and conceptualize thoughts. From this point of view, building a real time collaborative text editor was conceived</p> <p>Highlights:</p> <p>This project uses websockets to establish communication (basically send and receive updates) between a server (implemented using nodeJS) and a client (implemented using reactJS) using cross origin resource sharing (CORS).</p> <p>The documents are identified by the documentID which also acts as the roomID for a group of users to be able to make changes to the document that is open with them.</p> <p>Any changes made by a user are communicated to the server which in turn broadcasts it to the other users/clients that are accessing the same document (are in the same room).</p> <p>Other features supported:</p> <ul style="list-style-type: none">• Custom formats - Formatting options expected of any conventional text editor like italicize, bold, text-alignment, etc.,• Keyboard shortcuts - Allows the users to edit documents using keyboard shortcuts like Ctrl+C for copy ,etc.• Insert images - Provides support for images within the document.• Auto save - The document is auto-saved every 2 seconds to ensure data is not lost. <p>Code:</p> <p>https://github.com/tamjid1108/coEdit</p>	
Programming Language	JavaScript
Web Technologies used	HTML, CSS
Modules/Frameworks	socket.io, reactJS, nodeJS

Database	MongoDB Atlas
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