**SecureCEdit: P2P Secure Document Editing Framework**

**Phase 2 and 3:**

1. **Implementing Differential Synchronization**

* Creating a client copy called shadow of the document at each of the client.
* Whenever a client makes a change to the document, the active copy and the shadow are used to calculate the Diff.
* This contains the difference(change) made to the active copy.
* The Diff object is sent to the Controller.
* The Controller forwards it to the other clients.
* At the clients, a Patch is created from the Diff.
* This Patch is converted into text format and applied to both the shadow and the active copy at the client.