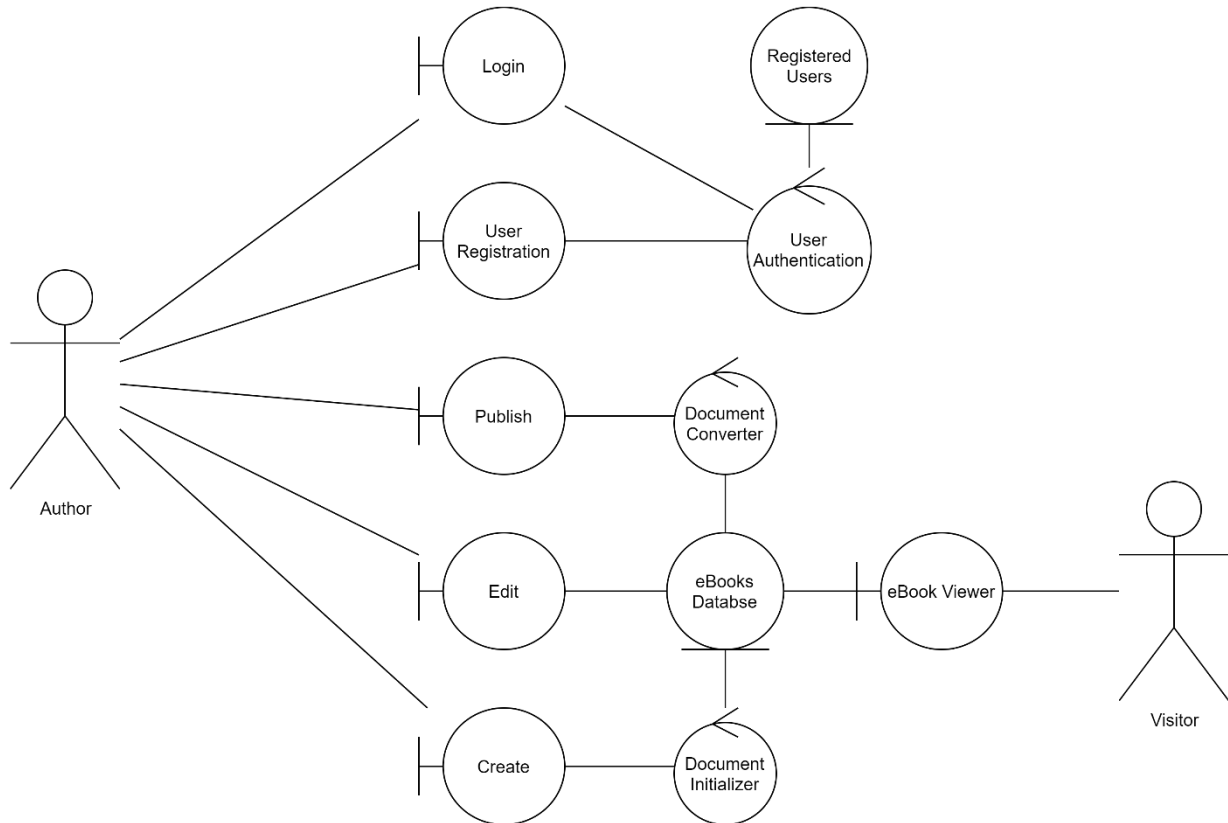


1. Class Diagram



CLASS Login Class

RESPONSIBILITY

1. Receives input from a form the user submits containing login credentials
2. Sends the username and password to the **user authentication class**
3. If passed, creates a login session for the user
4. If failed, returns user to login screen with a failed message

COLLABORATION User Authentication Class Registered Users Class

CLASS User Authentication Class

RESPONSIBILITY

1. Receives username and password from **login class**
2. Converts password to SHA-256 hash
3. Sends username and hashed password to **registered users class** for authentication

COLLABORATION Registered Users Class

<p>CLASS</p> <p>Registered Users Class</p>
<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Stores usernames and password hashes 2. Compares username and password hash with stored value when requested by user authentication class 3. Checks for collisions for new user requests from registration class 4. Adds a new username and password hash when requested by registration class
<p>COLLABORATION</p> <p>User Authentication Class Registration Class</p>

<p>CLASS</p> <p>Registration Class</p>
<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Receives input from the user with username and password for registering a new account 2. Sends login information to registered users class
<p>COLLABORATION</p> <p>Registered Users Class</p>

<p>CLASS</p> <p>Create Class</p>
<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Receives eBook name, description, private/public status from the user 2. Sends this information to Document Initializer Class
<p>COLLABORATION</p> <p>Document Initializer Class</p>

<p>CLASS</p> <p>Edit Class</p>
<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Receives eBook name from user 2. Searches the eBooks Database Class for the eBook 3. If found, loads the eBook into the editor
<p>COLLABORATION eBooks Database Class</p>

<p>CLASS</p> <p>Publish Class</p>
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<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Receives request to publish from the user 2. Receives requested file type from the user 3. Sends the eBook name to be published and requested file type to the Document Converter Class
<p>COLLABORATION</p> <p>Document Converter Class</p>

<p>CLASS</p> <p>Document Converter Class</p>
<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Receives a raw format document from Publish Class 2. Receives a file type request from Publish Class 3. Converts the raw document to the requested file type 4. Sends the converted document to eBooks Database Class for storage
<p>COLLABORATION</p> <p>Publish Class eBooks Database Class</p>

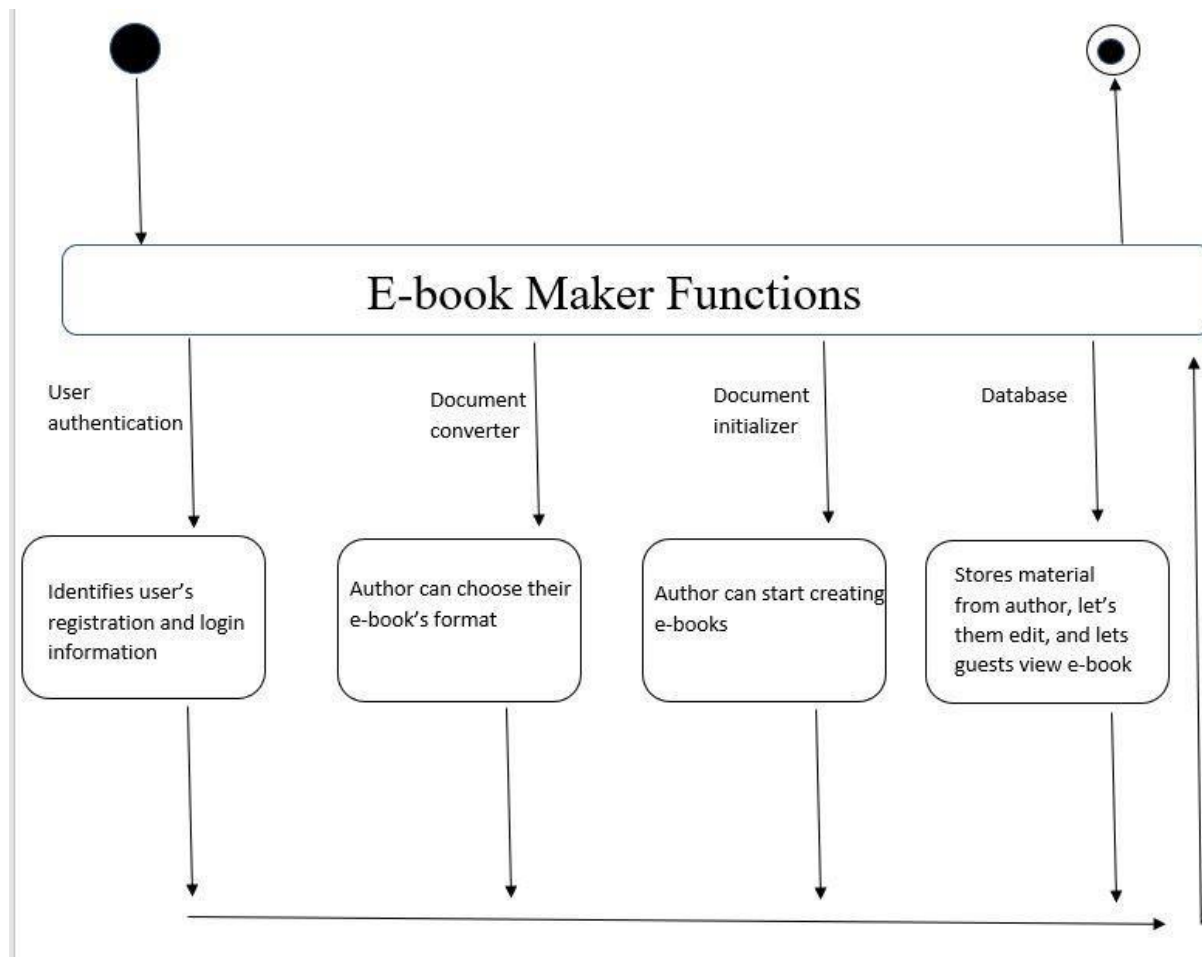
<p>CLASS eBooks Database Class</p>
<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Stores eBook Documents 2. Receives converted files from Document Converter Class for storage 3. Receives raw files from Document Initializer Class for storage 4. Receives raw files from Edit Class for storage 5. Searches the database for requested documents for View Class
<p>COLLABORATION</p> <p>Document Converter Class Document Initializer Class Edit Class</p>

View Class

<p>CLASS</p> <p>Document Initializer Class</p>
<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Receives new document information from Create Class 2. Produces a new document file 3. Sends the document information to eBooks Database Class
<p>COLLABORATION</p> <p>Create Class eBooks Database Class</p>

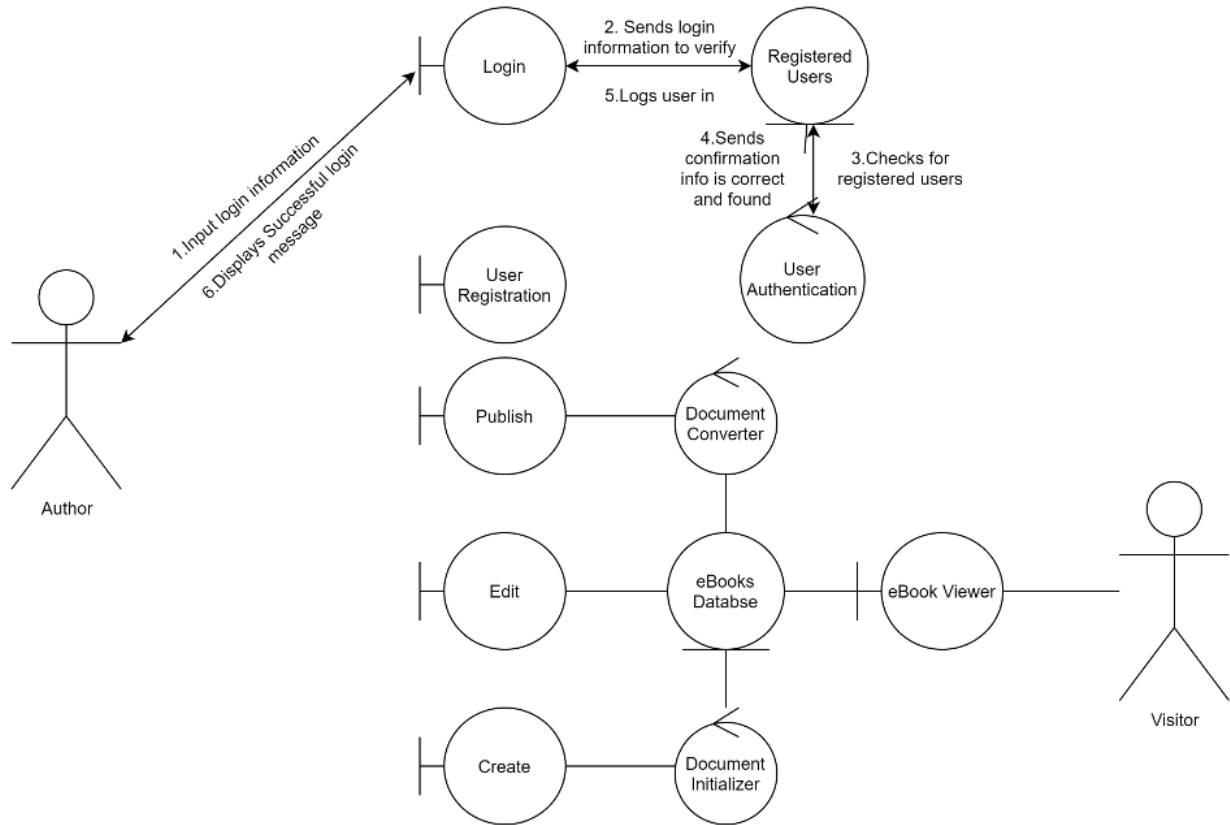
CLASS View Class
<p>RESPONSIBILITY</p> <ol style="list-style-type: none"> 1. Provides user with options to filter and search for documents 2. Provides user with a list of documents based on the filters 3. Receives document request from user 4. Searches the eBooks Database Class for the document 5. Displays the document to the user
<p>COLLABORATION eBooks Database Class</p>

2. State chart

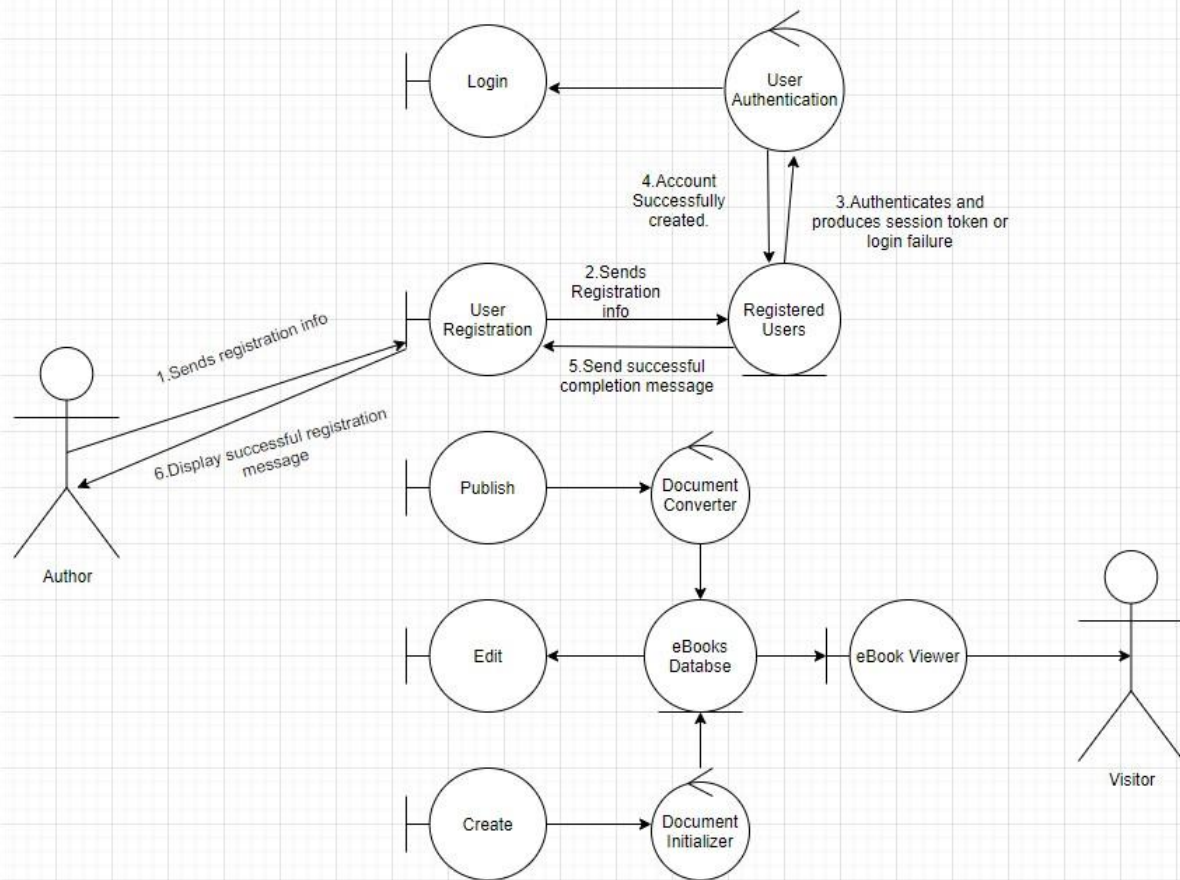


3. Use-case realization

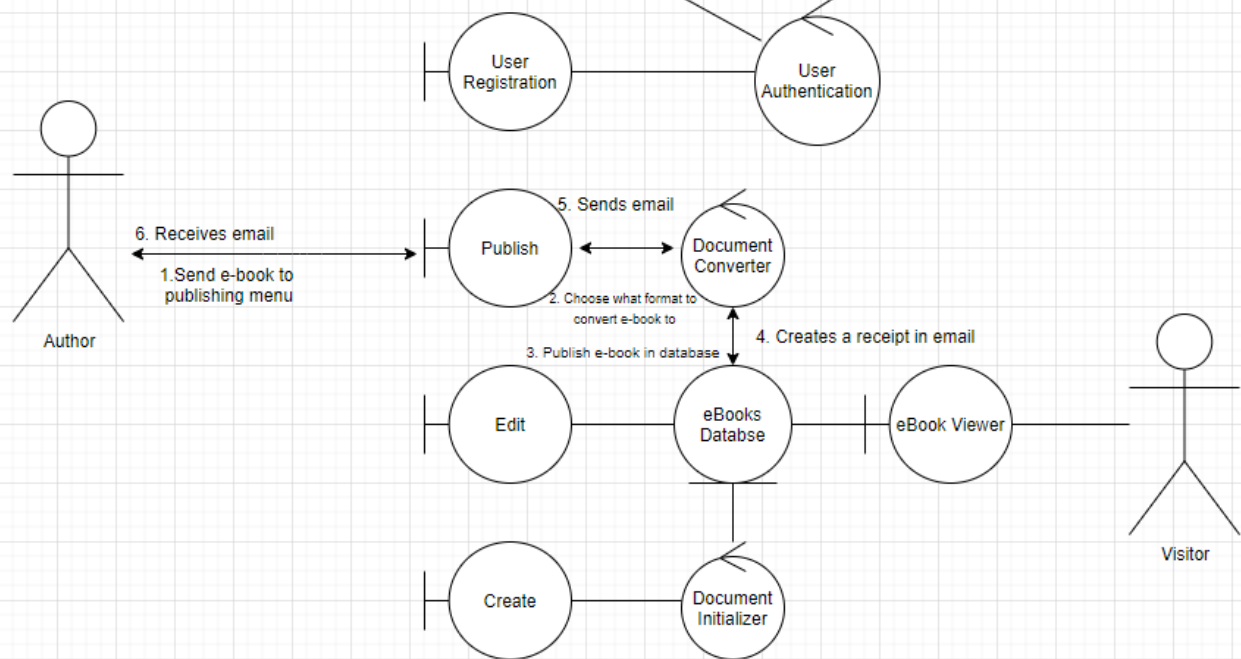
Login



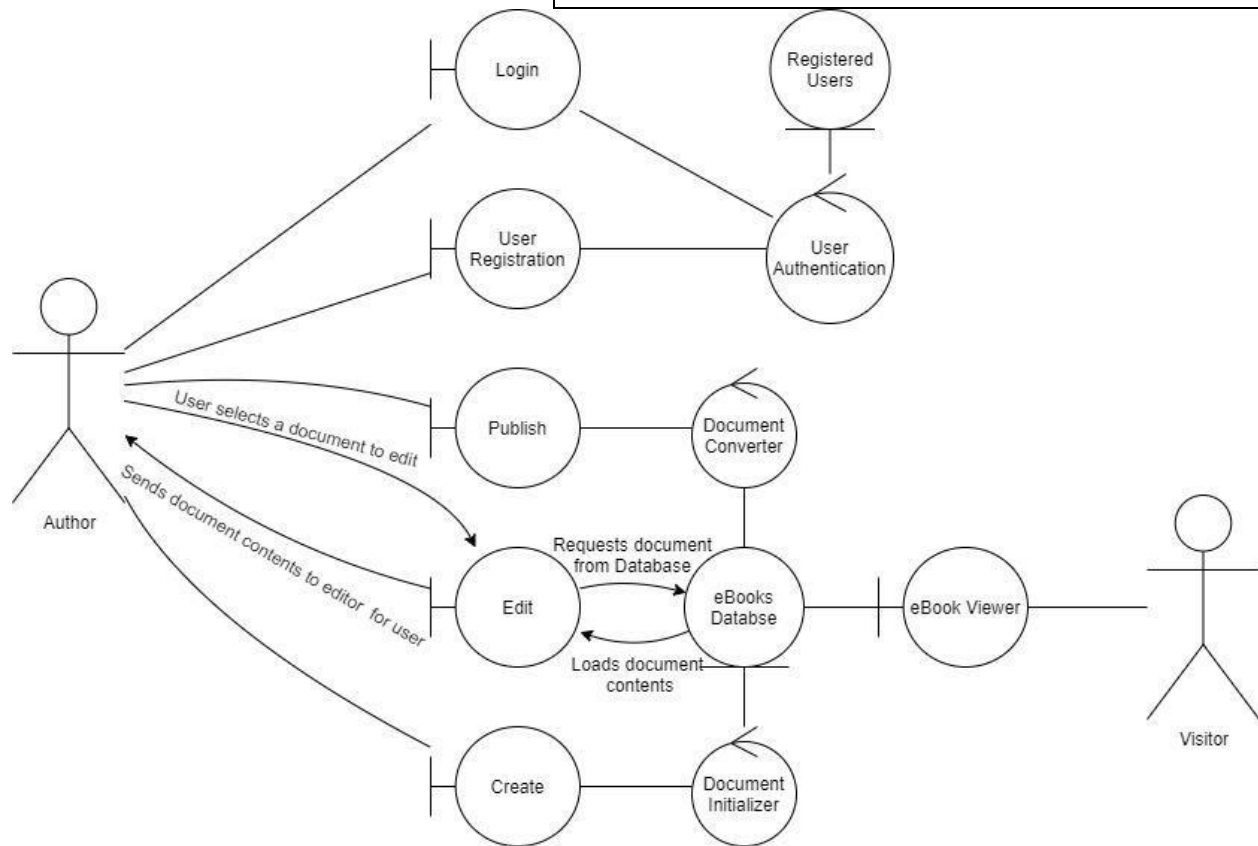
Register



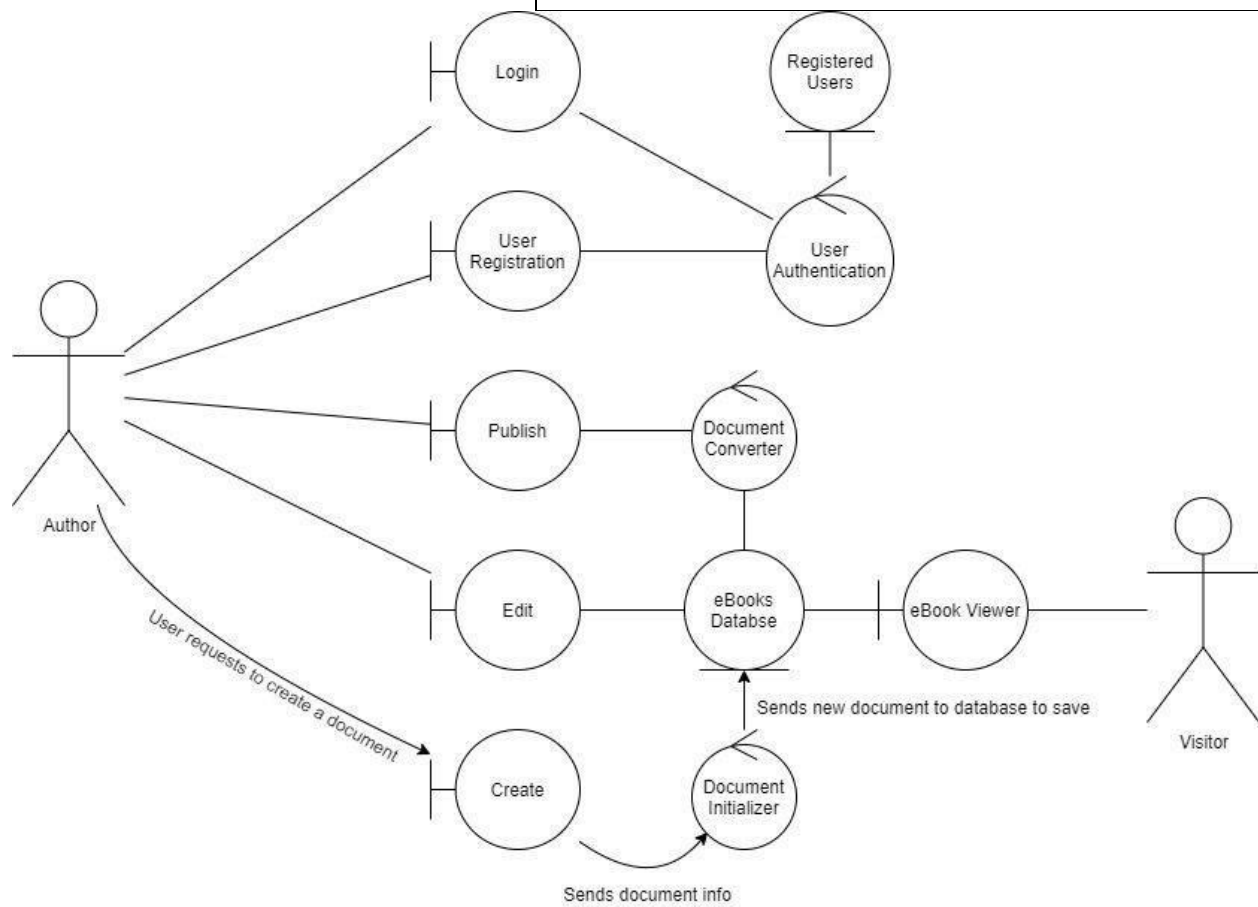
Publish



Edit



Create



eBook Viewer

