



CS251: Software Engineering I

2014-2015

Project Title : Social Network

## **Software Requirements Specifications for social network**

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## Software Design Specification

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### Team

ID	Name	Email	Mobile
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#### Document Purpose and Audience

- This document is presenting a software requirements specifications, which is a description of a software system to be developed, laying out functional, non-functional requirements, and system models. It is for a back-end API (Application Programming Interface) for a Social Network, which is a dedicated website which enables users to communicate with each other by posting information, comments, messages, images, like Facebook, etc..
- It targets developers (to be able to maintain or develop functions), software engineers and business developers who are trying to develop their professional network or create a new one.
- It targets also the project manager, who is responsible for the whole project.

#### System Models

#### System Decomposition



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The diagram is too big that it can't be taken as a screenshot, in the assignment rar there is a separate ArgoUml file that has both System Decomposition and Class Diagram.

### Class diagrams

The diagram is too big that it can't be taken as a screenshot, in the assignment rar there is a separate ArgoUml file that has both System Decomposition and Class Diagram.

Class ID	Class Name	Subsystem ID	Description
1	SystemControl	1	<ul style="list-style-type: none"> <li>- It is a controller class, relates the actors actions to the entity classes and to the boundary classes.</li> <li>- It executes the functions (load and add)</li> </ul>
2	Database	1	<ul style="list-style-type: none"> <li>- It's a controller class, relates the actors actions to the entity classes and to the boundary classes.</li> <li>- It inherits from its parent class (SystemControl). (4 Classes are inherited Group/ Post/ Page/ Users)</li> </ul>
3	User	2	<ul style="list-style-type: none"> <li>- It's an entity class, carries the attributes of the user and the functions he can performs (sign up/ sign in/ sign out) (2 classes are inherited from it Normal and Premium Users)</li> </ul>
4	Privacy	2	<ul style="list-style-type: none"> <li>- It's a class that carries all the privacy settings for Posts/ Groups/ Pages</li> </ul>
5	Post	3	<ul style="list-style-type: none"> <li>- This class is responsible of different types of posts and managing them using some functions (share/ like/ write/ comment).</li> </ul>
6	Hashtag	3	<ul style="list-style-type: none"> <li>- This class is responsible of getting and sorting the hashtags written in posts.</li> </ul>
7	Messages	4	<ul style="list-style-type: none"> <li>- This class is responsible of sending or viewing messages.</li> </ul>
8	Pages	4	<ul style="list-style-type: none"> <li>- This class is responsible of creating and managing pages by (create / delete) and enables the user to like of unlike the page.</li> </ul>



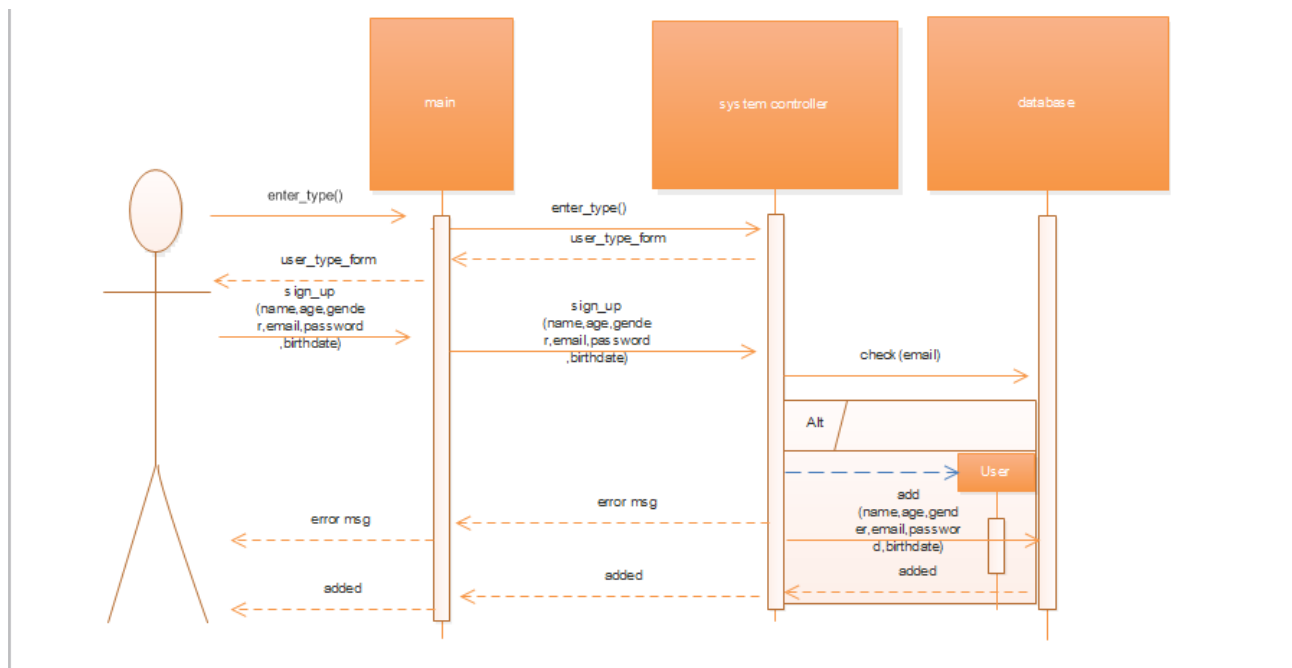
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Class ID	Class Name	Subsystem ID	Description
9	Groups	4	This class is responsible of creating managing, and deleting owned groups. It enables the user to join a group. In case of creating the group, it'll enable the owner to choose the type of privacy and its name.
10	Newsfeed	5	- It's a boundary class. 3 classes are inherited from it (Page/User/Group) and represents everything that could be viewed from this pages

## Sequence diagrams

### Sequence#1 : (sign up)

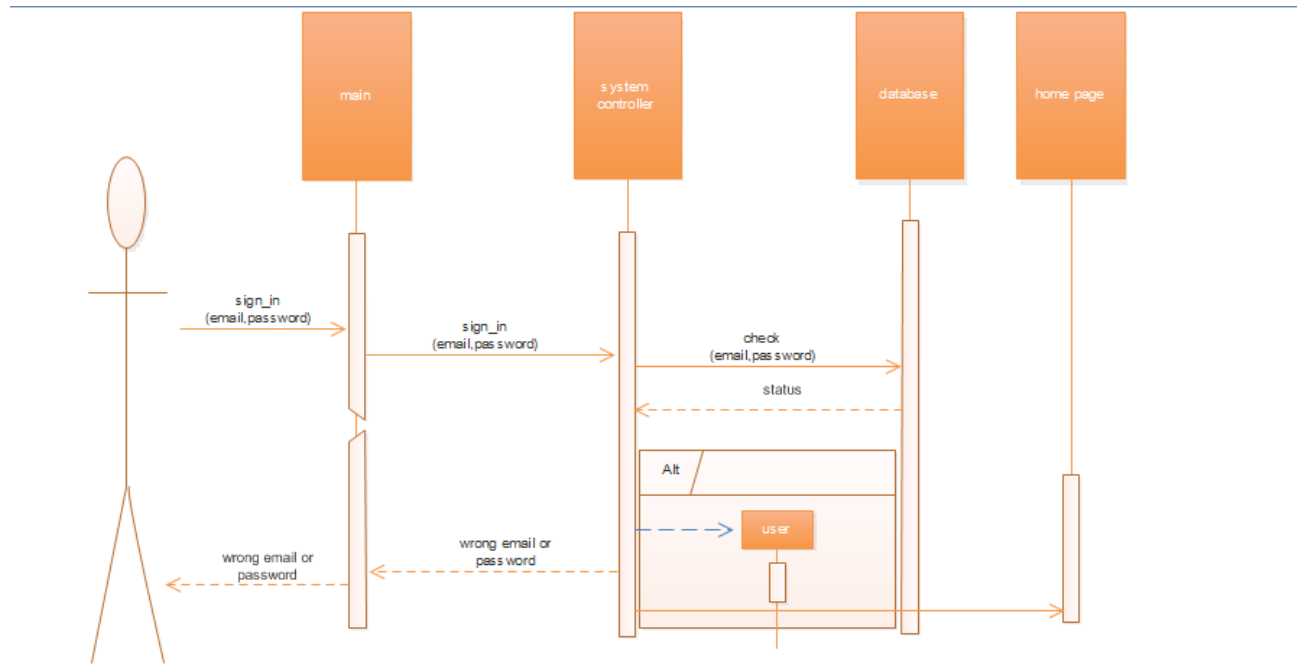


### Sequence#2: (sign in)

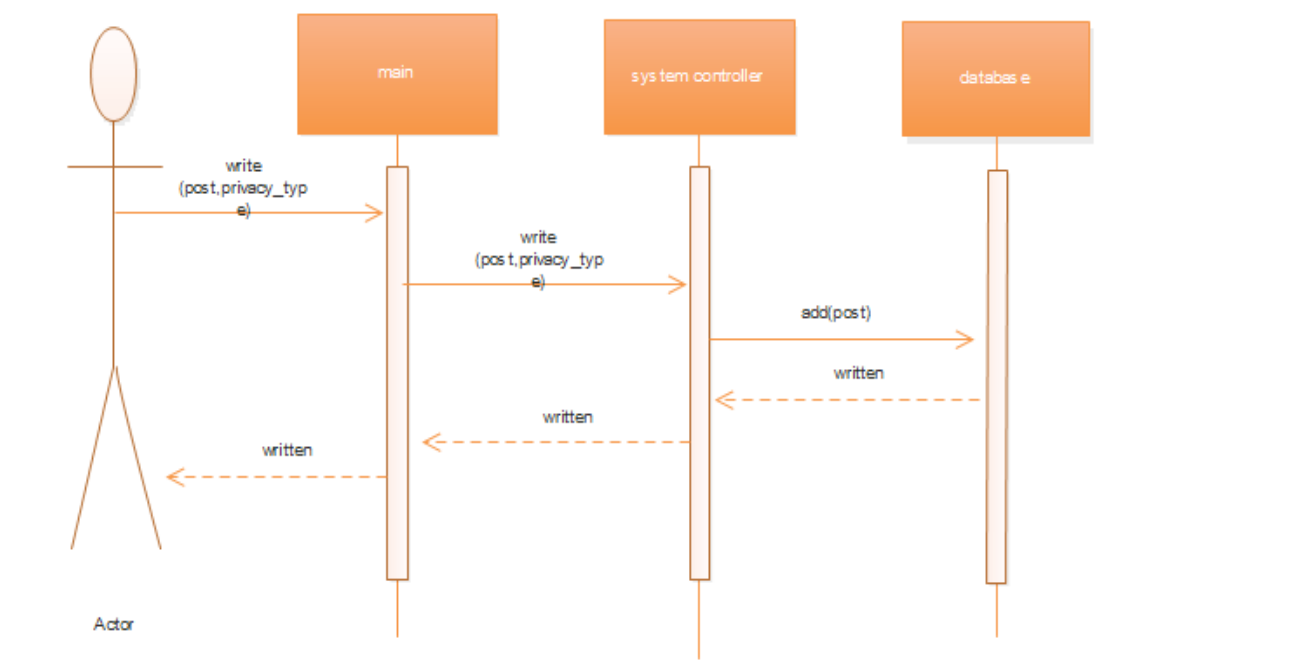


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### Sequence#3: (write\_post)

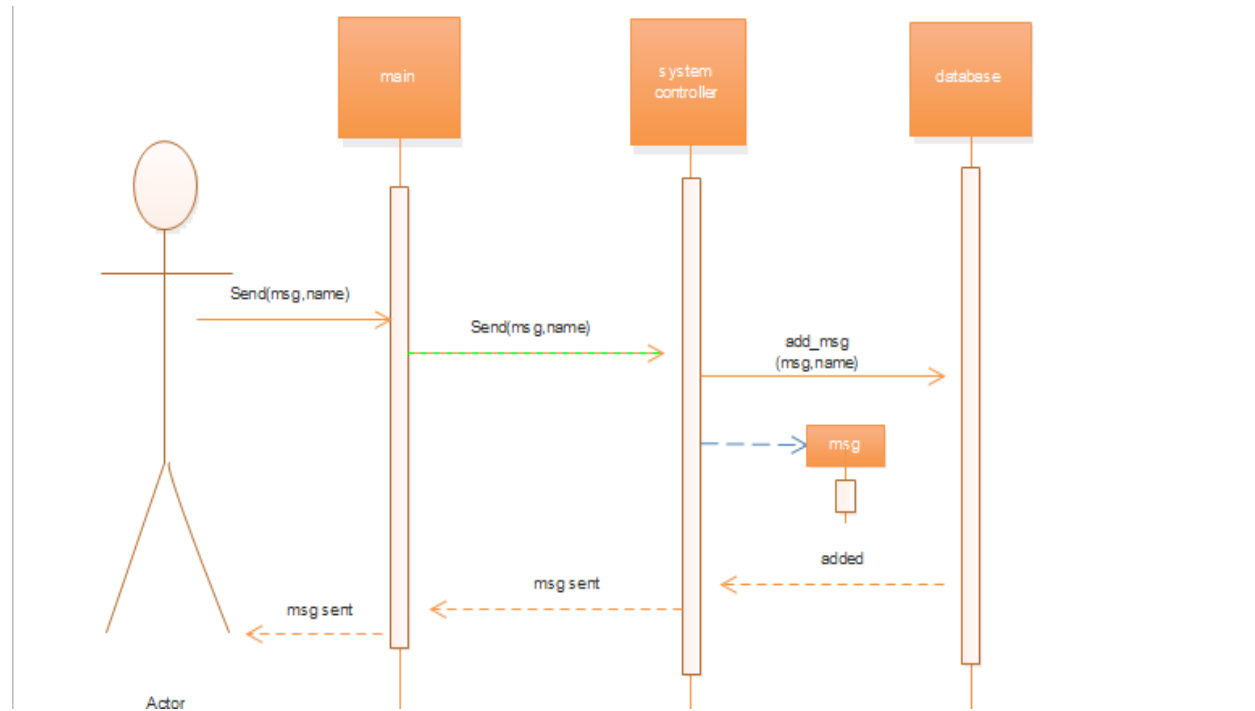


### Sequence#4: (send msg)

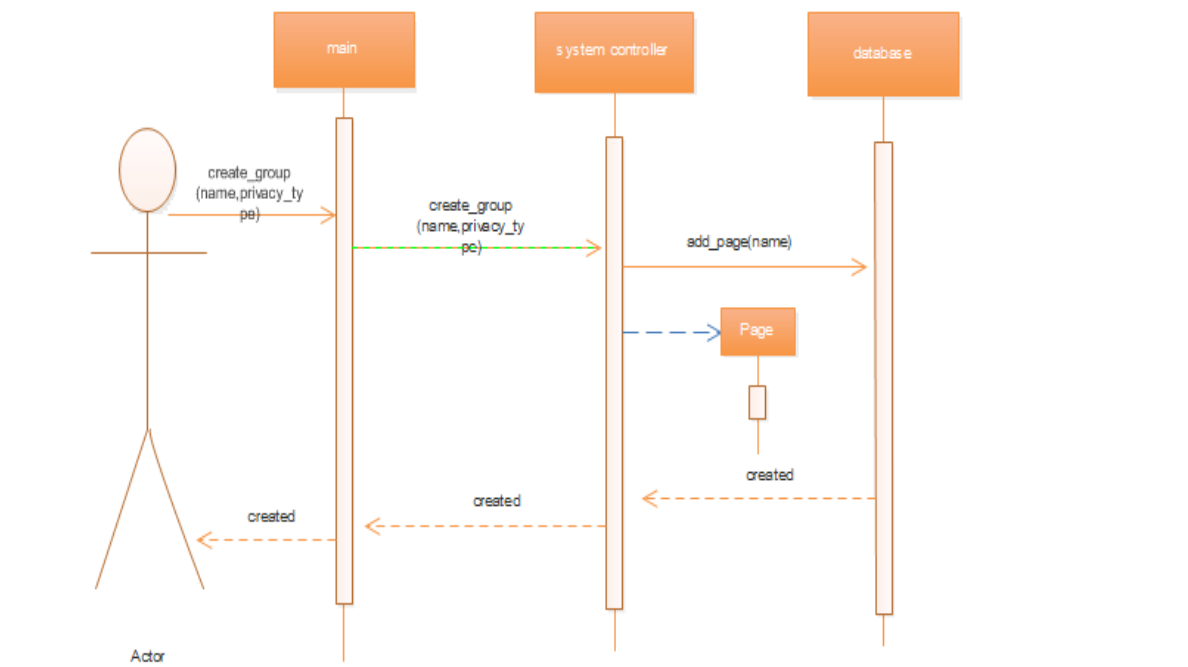


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### Sequence#5: (create\_group)

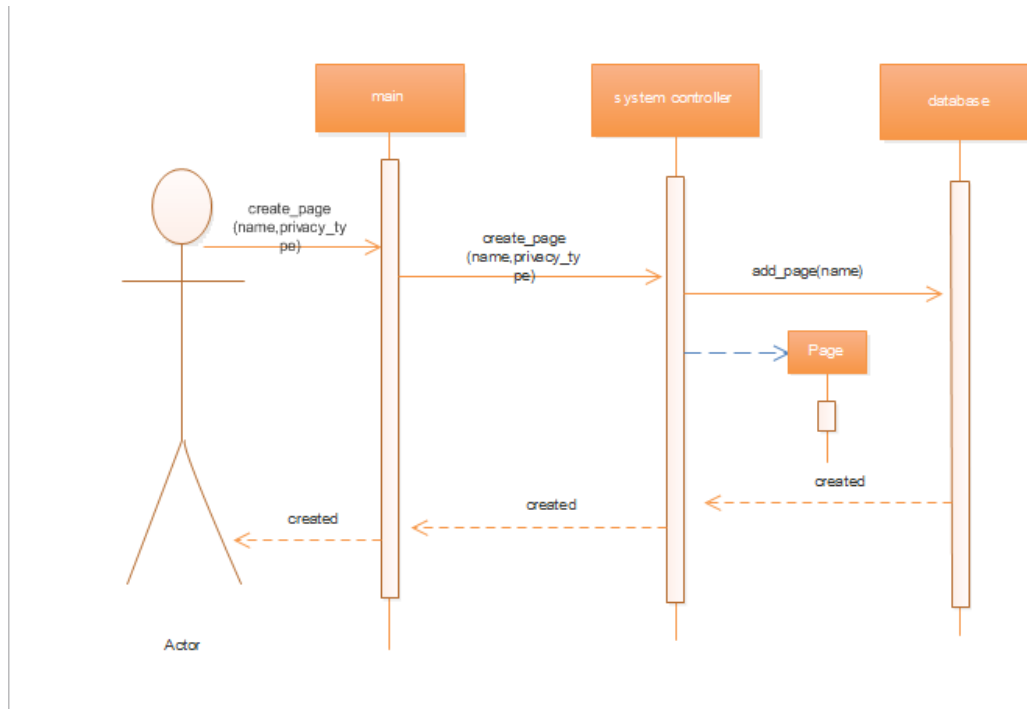


### Sequence#6: (create\_page)



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### Class - Sequence Usage

Class Name	Sequence Diagrams	Overall used methods
main	1, 2,3,4,5,6	Creat_group , creat_page , send , sign_in , enter_type , sign_up , write
SystemController	1,2,3,4,5,6	Write , enter_type , sign_up , creat_group , creat_page ,send , sign in
Data Base	1,2,3,4,5,6	Add_group , add_page , add_msg , check , add

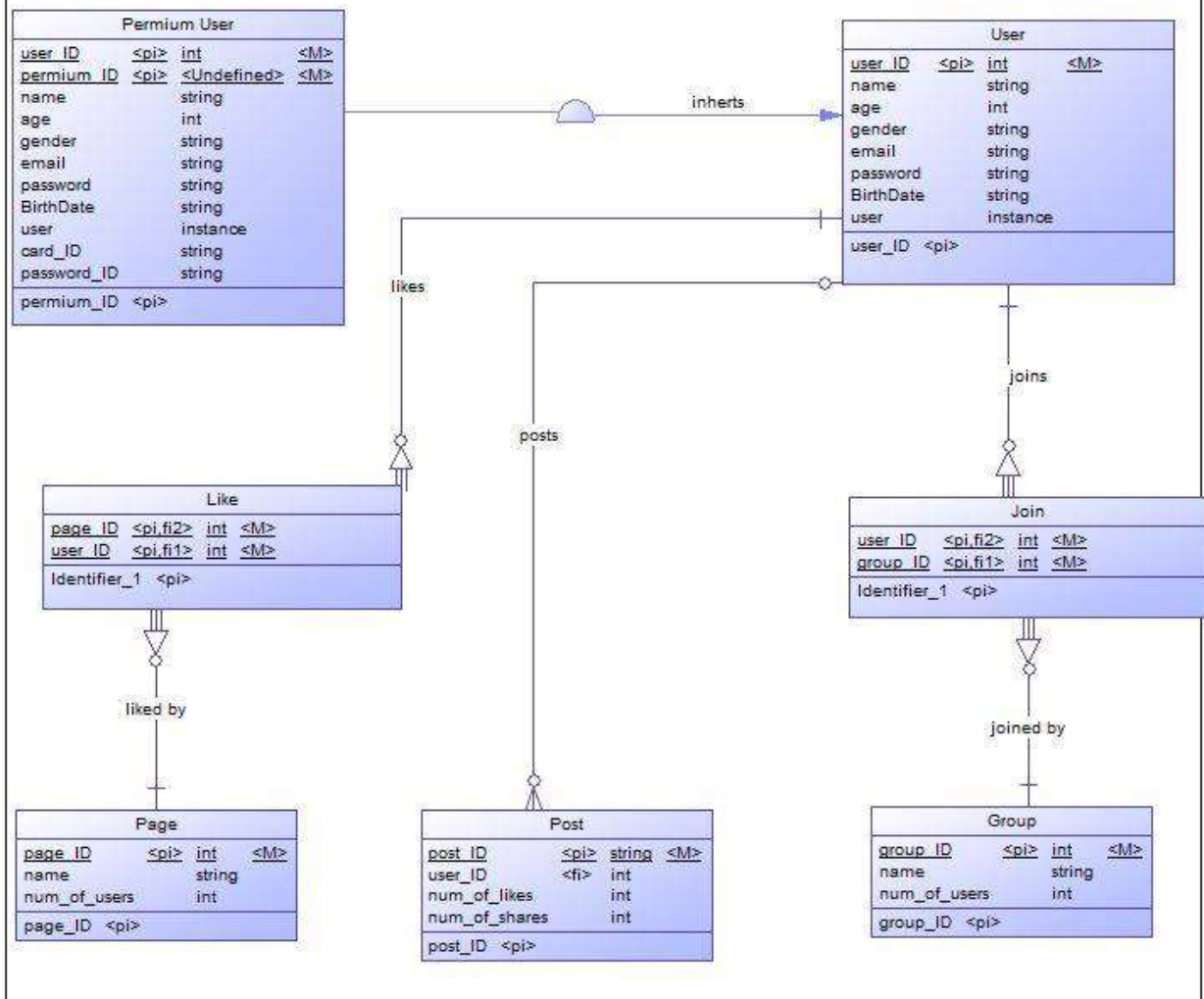




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### Physical Entity-Relationship Diagram





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### User Interface Design





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## Ownership Report

Item	Owners
System decomposition	Laila Hussein
Class Diagram	Laila Hussein
Sequence Diagram	Nehal Mahmoud & Aliaa Hassan
Sequence Usage	Nehal Mahmoud & Aliaa Hassan
Physical Entity-Relationship Diagram	Nehal Mahmoud & Aliaa Hassan
User Interface Design	Laila Hussein



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### Policy Regarding Plagiarism:

### Authors

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