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Documentation On

ReadersHub

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ABSTRACT

The Readershub is an innovative software application designed to facilitate the reading of books in a user-friendly and efficient manner. In today's fast life, the need for streamlined processes is essential for both author and reader. This system aims to provide a comprehensive platform that enables reader to manage their book inventory, check review about their work, and ensures better work to do.

The project's primary objective is to create a user-centric software solution that addresses the challenges faced by readers that it is not possible to carry books everywhere. By incorporating features such as online reading, user authentication, and real-time availability of book, the Readershub aims to revolutionize the readers problems.

With an emphasis on intuitive user interfaces, accurate book, and good reading document, the Readershub promises to optimize online reading operations and enhance readers satisfaction. By offering a centralized hub for both author and reader to interact, the system aims to foster better communication, faster decision-making, and increased transparency throughout the entire reading and publishing process.

As we embark on the development of the Readershub, we envision a future where reading books online operate more efficiently and readers experience a hassle-free reading process. By delivering a software product that aligns with the day to day life needs while preparing for future advancements, this project aims to contribute to the growth and modernization of the traditional book reading style. Through careful planning, rigorous development, and a dedication to excellence, we are committed to delivering a robust and user-friendly Readershub that transforms the way books were read.

ACKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, Mrs. Sonali Mogal for providing me with the right guidance and advice at the crucial juncture sand for showing me the right way. I extend my sincere thanks to our respected Centre Co-Ordinator Mr. Rohit Puranik, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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1. INTRODUCTION

In an era defined by rapid urbanization and busy work culture, the books plays a pivotal role in providing individuals with the means to read their favorite areas. The process of reading book any time, however, has traditionally been associated with various challenges and complexities. These range from the time-consuming nature of physical visits to store, to the uncertainty of finding the right book at affordable price. To address these challenges and bring a paradigm shift to the book market, we introduce "ReadersHub," a innovative onlineplatform designed to streamline and simplify the process of reading book.

The book industry has been a cornerstone of modern society, providing individuals with a sense of freedom and connectivity. As technological advancements continue to reshape various sectors, the book industry stands poised for transformation. ReadersHub is a response to the growing demand for a digital ecosystem that not only connects Authors and Readers seamlessly, but also enhances the overall experience of reading different types of books. By leveraging the power of technology, data and user-centric design, ReadersHub to revolutionize the way of book reading.

Purpose

The purpose of this document is to provide a detailed specification of the features and functionalities of the "Readershub" It outlines the requirements, system architecture, and user interactions.

Scope

The system is designed to manage information related to book, author and reader documents. It facilitates tasks such as publish book, maintain readers reading history, book rating user management document uploads.

Objective of Project on Readershub:

The Readershub project is designed with a clear set of objectives to enhance the book online reading process. The primary goal is to provide availability of multiple book for reading with a streamlined platform to efficiently manage their book.

Key objectives include creating a user-friendly experience for author and reader, ensuring secure user authentication for data protection.

The system focuses on maintaining accurate book information, enhancing data accuracy and integrity.

With modern technology and a future-ready approach, the project aims to create a reliable, transparent, and efficient platform that benefits to all book reading process.

Functionalities provided by Readershub are as follows:

The "Readershub" project provides a range of functionalities aimed at simplifying and enhancing the book reading process for users. Some of the key functionalities offered by the project include:

Book Listings: Author can easily publish their books on the platform, providing detailed information about each book, including author, genre of book, language and book description.

User Registration and Authentication: Users can create accounts and securely log in to the platform. Secure authentication mechanisms help protect user data and ensure that only authorized individuals can access the system. If user is author then can publish the book and also can read books of different authors. If user is reader the can read one book at a time and give rating accordingly.

Search and Filtering: Reader can search for book based on their preferences, such as author, book name, genre and language. Advanced filtering options make it easy to narrow down search results. Book details: Detailed information about each listed vehicle is provided, including high- quality pdf for online reading, specifications, features, and author information.

Review rating: The platform facilitates user to give rating for book according the book content Reader Profiles: Reader can create and manage their profiles, including email and mobile no. information.

Author Dashboard: Author have access to a dashboard that allows them to publish their book, check rating given by users. Data Integrity: The system ensures good contents/books across the platform, reducing errors and

REQUIREMENTS

Functional Requirements

FR 1. User Registration and Authentication:

Users can register by providing necessary details.

Forgot password functionality allows users to reset their passwords.

FR 2. Book Management:

Authors can add, update, or delete book and details.

Book categorized in genre and language.

Books are uploaded in form of pdf, this pdf will open in online pdf viewer.

FR 3. Readers Profiles:

Reader can view and update their profiles.

Reader profiles store personal information.

FR 4. Author Profiles:

Author can view and update their profiles.

Author's profile store personal information.

Author can publish their book.

FR 7. Pdf Upload:

Author can upload PDF of their book.

Reader can view pdf of that book.

FR 8. Error Handling and Reporting:

The system handles errors gracefully and provides appropriate error messages.

Admins can access logs and error reports for troubleshooting.

Non Functional Requirements:

NFR 1. Security:

User passwords are securely stored using encryption techniques.

NFR 2. Performance:

The system should handle a large number of simultaneous users without significantslowdowns.

PDF loading and retrieval should be efficient for a smooth user experience.

NFR 3. Scalability:

The system should be designed to accommodate future growth and increased user activity.

NFR 4. Usability:

The user interface should be intuitive and user-friendly for both reader/ author and administrator.

Clear and concise error messages should guide users through any issues.

NFR 5. Reliability

The system should be available and operational 24/7 with minimal downtime.

NFR 6. Data Integrity:

Data integrity and consistency are maintained through proper validation and database design.

NFR 7. Data Privacy:

User data, especially personal and sensitive information, should be stored securely.

Hardware and Network Interfaces:

Back-end Server Configuration: Intel core i5 Processor 128 MB RAM 1 Raid Controller Card 32-bit Ethernet Controller (100 Base-T) 8 x 2.0 GB Fast SCSI/2 with Raid Support 2.88 MB FDD 48x CD ROM Drive

SVGA Colour Monitor on PCI with 1MB RAM 101 Keys Keyboard 1 Microsoft Mouse with pad 4/8 GB DAT One Serial & Two Parallel Ports Internet Information Server (IIS) Microsoft Transaction Server (MTS)

Front-end Client Configuration:

Software Interfaces:

Software configuration for back-end Services: STS, MySql WorkBench Command Line Interface Software configuration for front-end Services: VS Code Client Workstation Office 2000 -Web Browser – Internet Explorer

DATABASE DESIGN

The following table structures depict the database design.

Table 1: Author:

Field	Type	Null	Key	Default	Extra
id	bigint	NO.	PRI	NULL	auto_increment
age	int	YES		NULL	_
dob	date	YES		NULL	
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(30)	YES		NULL	
last_name	varchar(30)	YES		NULL	
mobile_number	int	YES	UNI	NULL	
password	varchar(255)	NO		NULL	

Table 2: Books:

Field	Type	Null	Key	Default	Extra
id	bigint	NO NO	PRI	NULL	auto_increment
image_path	varchar(255)	YES		NULL	
language	varchar(30)	YES	ĺ	NULL	İ
pdf_path	varchar(255)	YES	ĺ	NULL	İ
title	varchar(50)	YES	ĺ	NULL	į
author id	bigint	YES	MUL	NULL	į

Table 3: Genre:

Field	Type	Null	Key	Default	Extra
id	bigint	NO NO	PRI	NULL	 auto_increment
genre_title	varchar(30)	NO		NULL	
book id	bigint	NO	MUL	NULL	

<u>Table 4: Reader-book-log:</u>

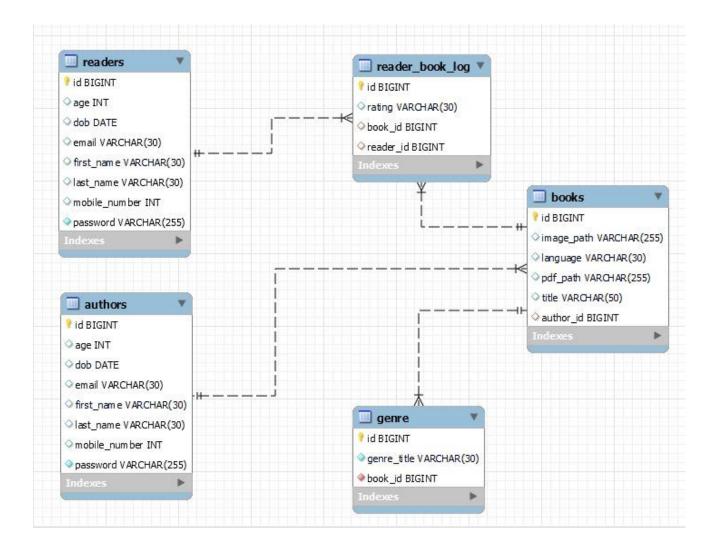
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
rating	varchar(30)	YES		NULL	
book id	bigint	YES	MUL	NULL	
reader id	bigint	YES	MUL	NULL	

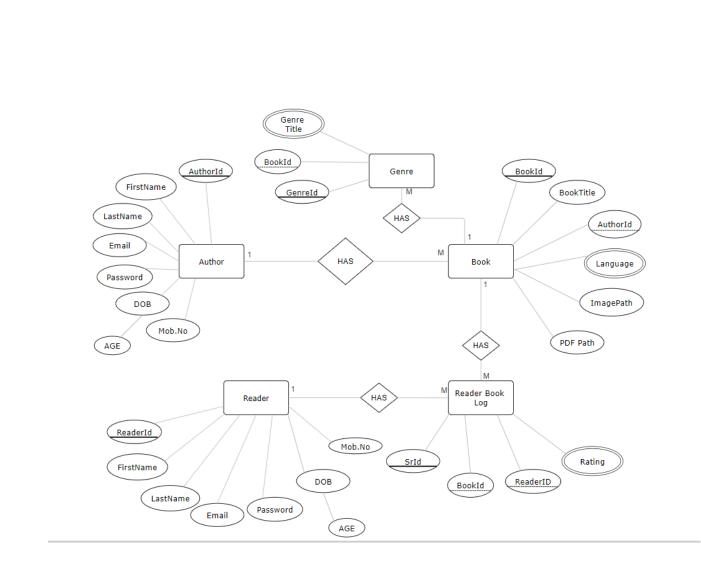
Table 5: Readers:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
age	int	YES	l	NULL	
dob	date	YES	1	NULL	
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(30)	YES	İ	NULL	
last name	varchar(30)	YES	İ	NULL	
mobile number	int	YES	UNI	NULL	į
password	varchar(255)	NO	İ	NULL	į l

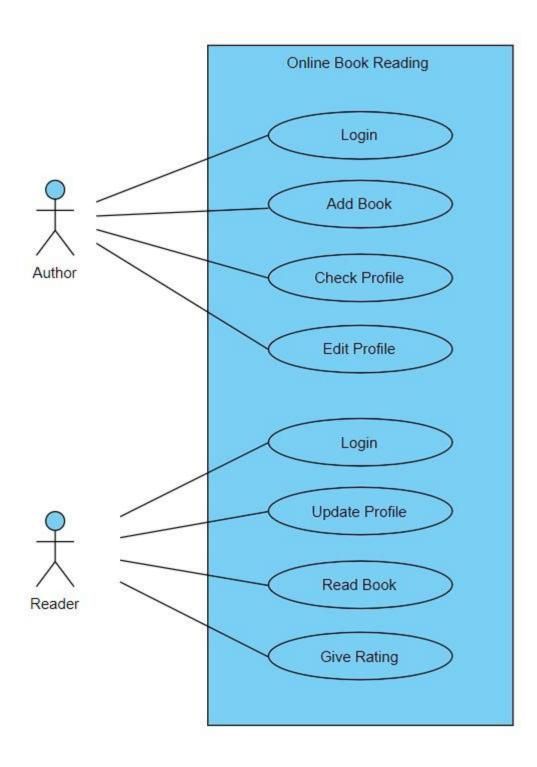
APPENDIX A

Entity Relationship Diagram:





Use Case Diagram:

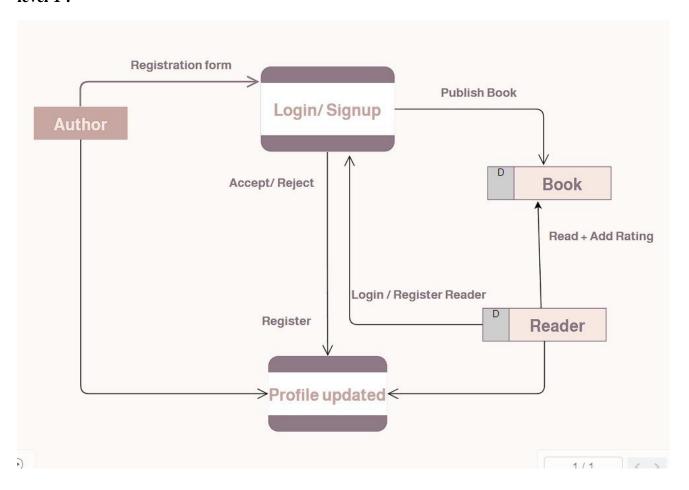


Data Flow Diagram:

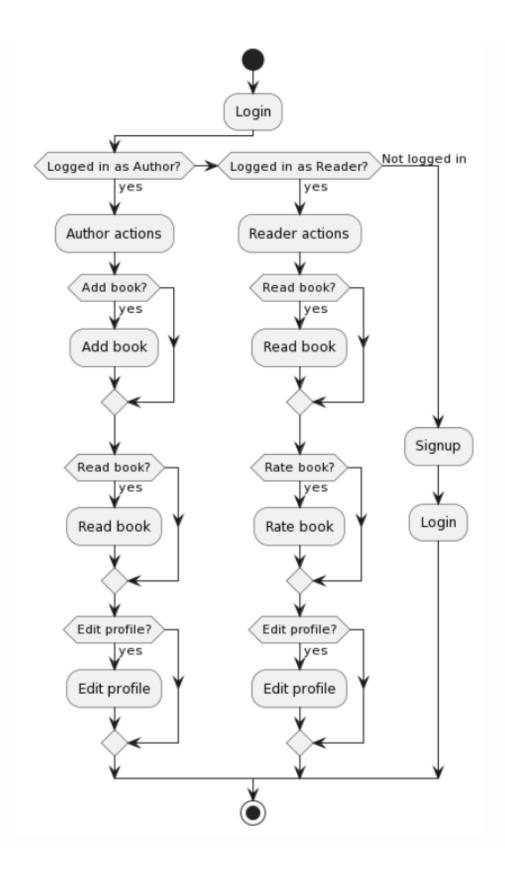
Level 0:



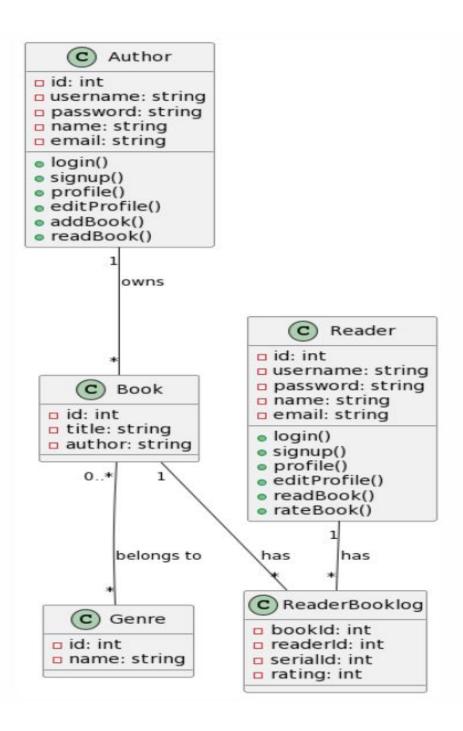
level 1:



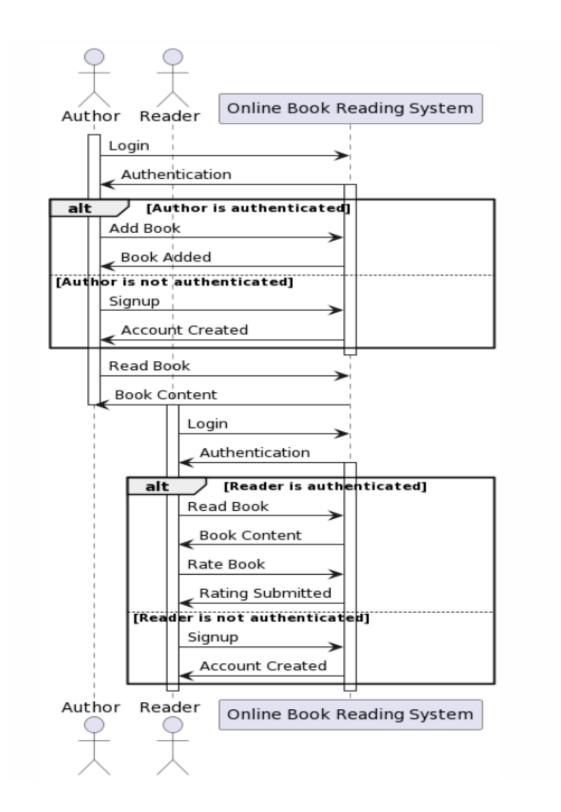
Activity Diagram:



Class diagram:



Sequence diagram:

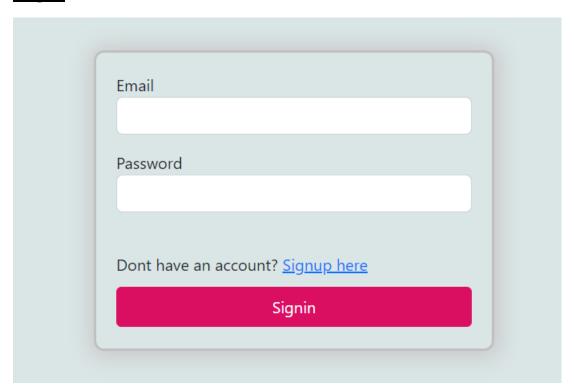


APPENDIX B

Homepage:

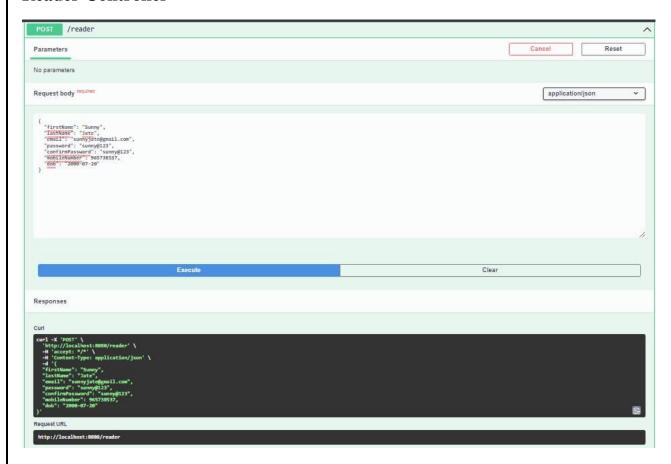


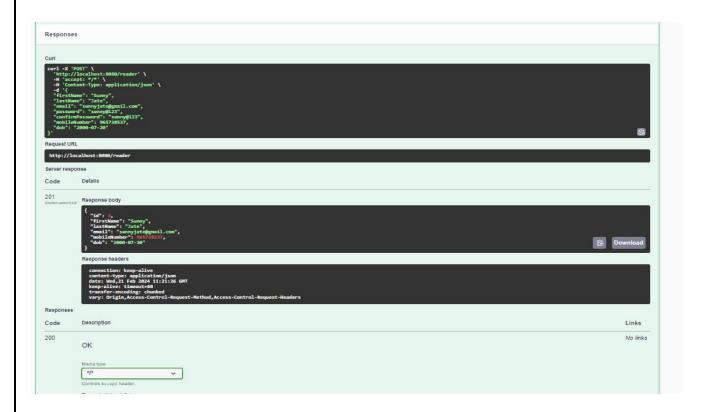
Login:

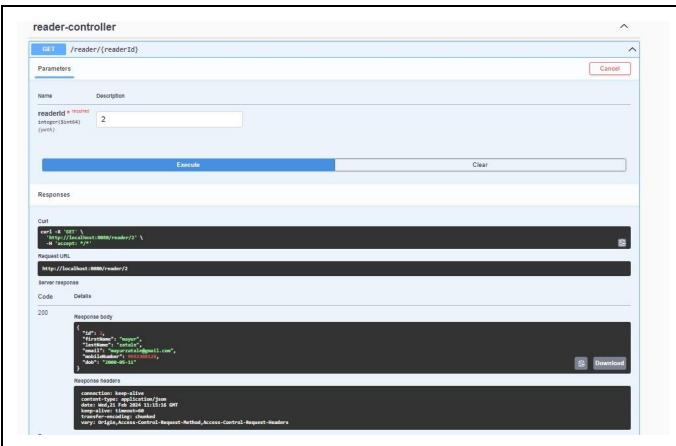


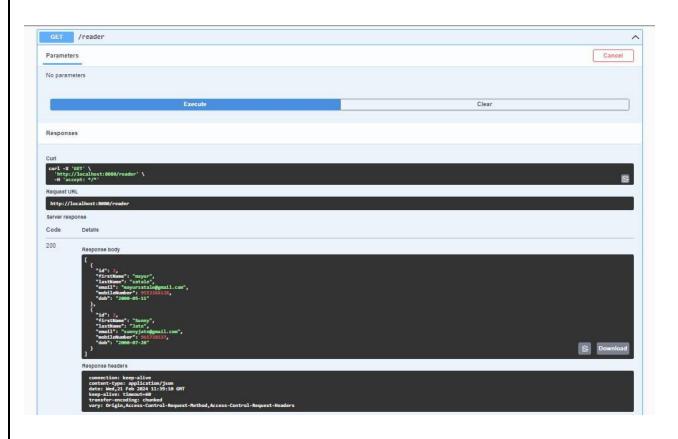
New User signup User Type OReader OAuthor First Name Last Name Email Password Confirm Password Mobile Number Date of Birth mm/dd/yyyy Already have an account? Signin here Signup

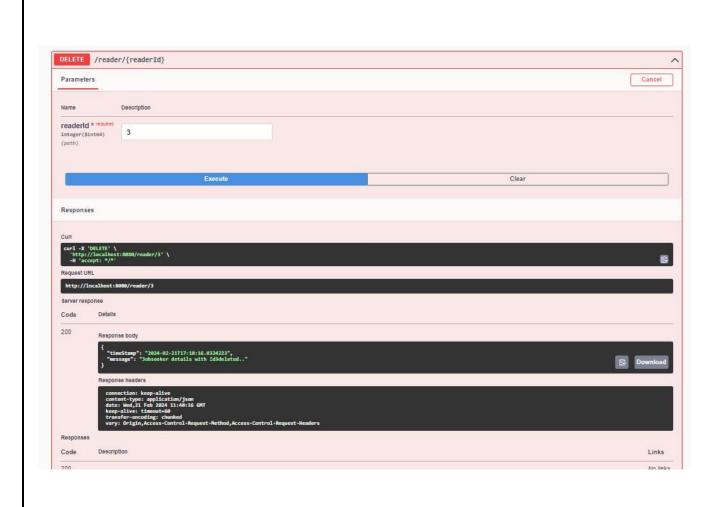
Reader Controller



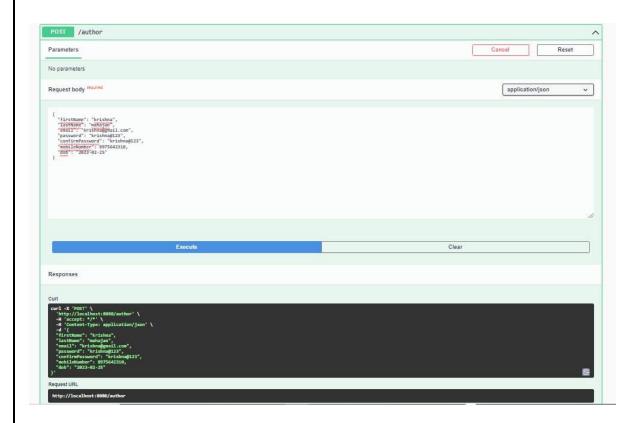


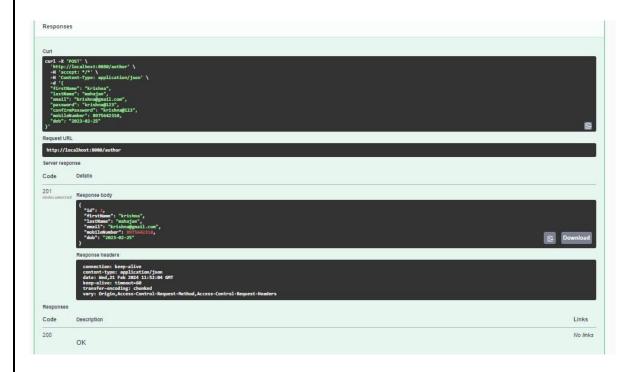


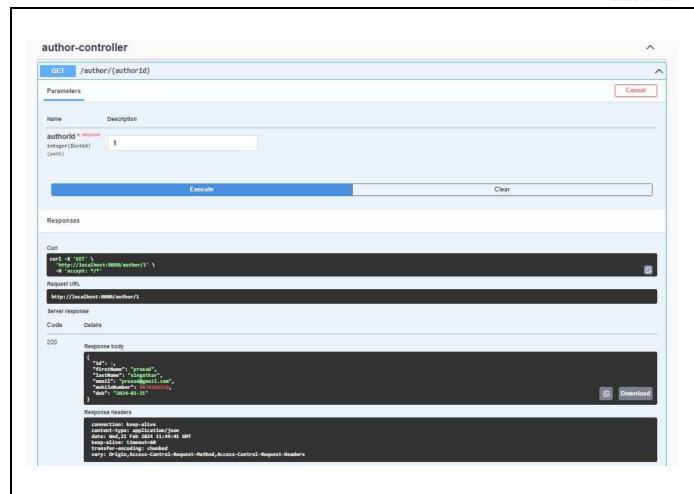


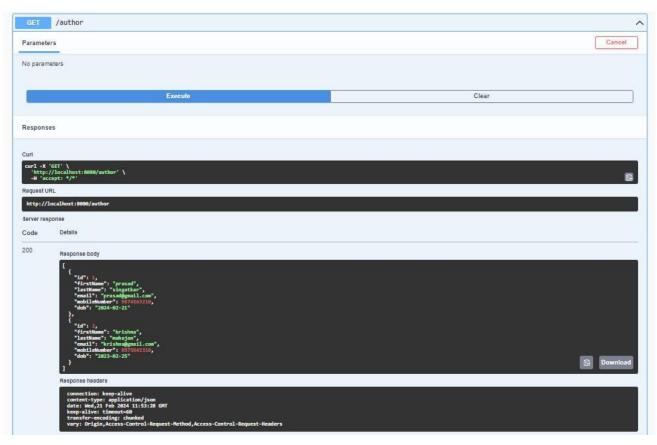


Author Controller









REFERENCES
http://www.javatpoint.com/java-tutorial http://www.w3.org http://www.wikipedia.org https://www.tutorialspoint.com/java
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