

# Online Library Management System

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# What Online Library Management System App For?

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For managing and automation Library management

For both Users and Administrators of Library

Administrators – Can manage Books, Authors, Genres and Users

Admin – Can borrow and take books to Users(Automated)

Users – Can see which books they have taken from library

Functionalities – Without any registration or logging in all users can see our available books(Contains searching )

# Used Technologies

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Java 11

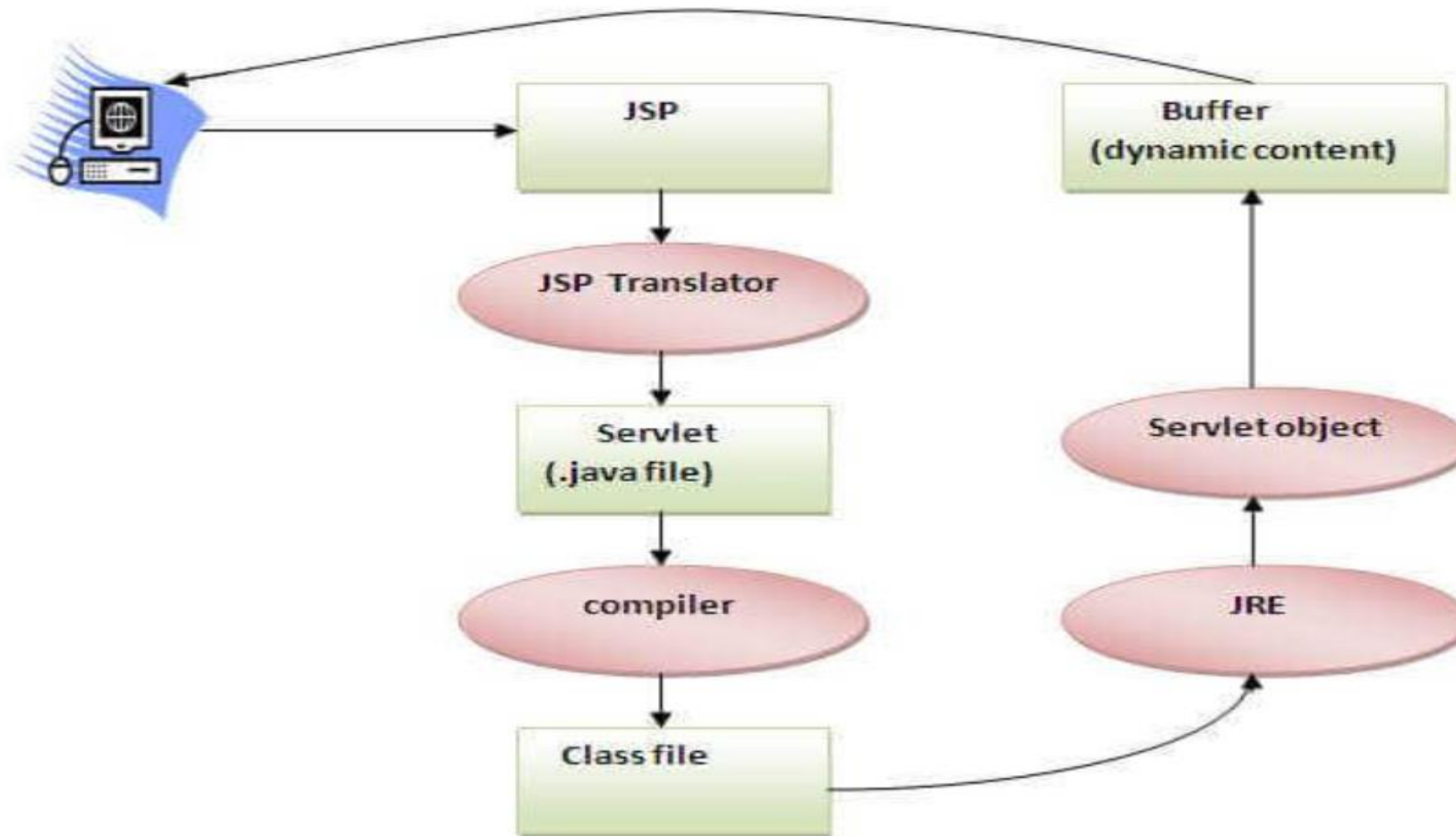
JDBC

Servlets(JSP, JSTL)

Database(PostgreSQL)

VCS(GitHub) <https://github.com/javohir101dev/online-library-management>

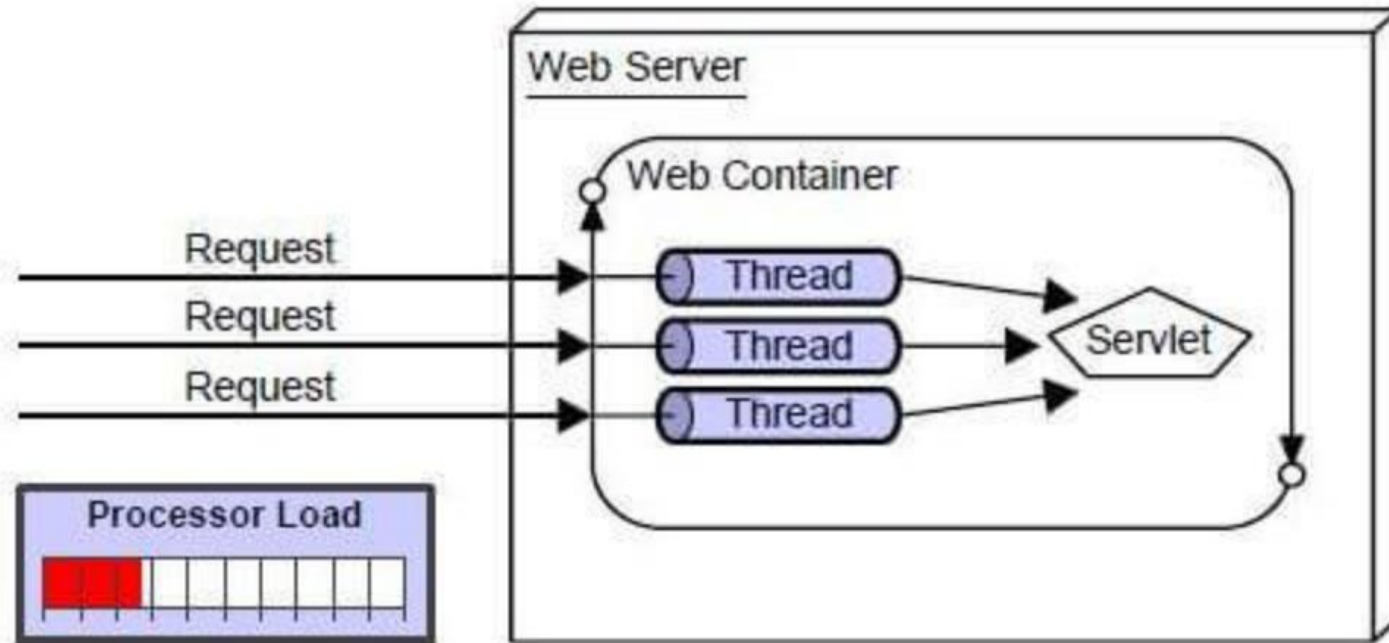
# How JSP works?



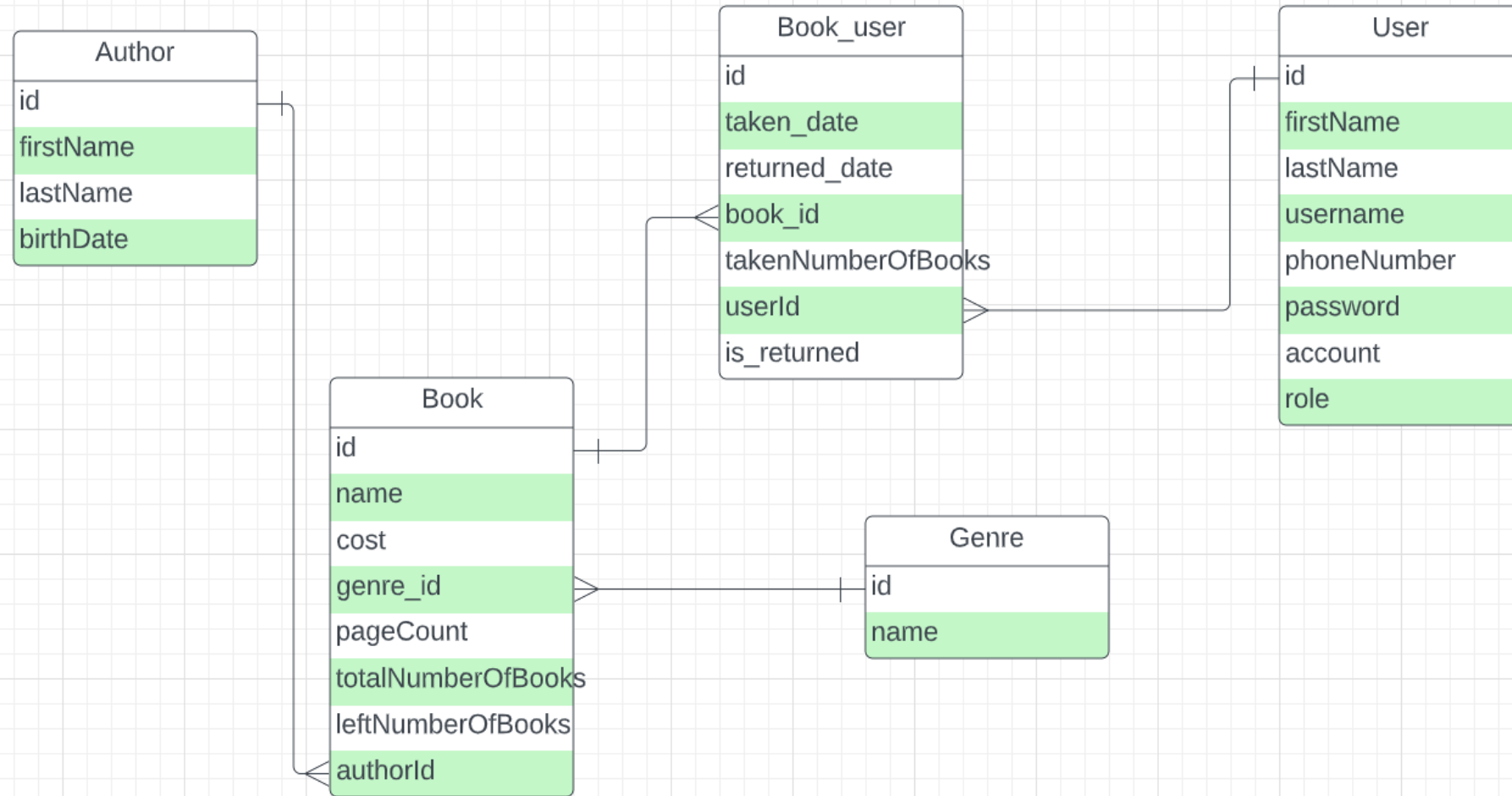
# Advantages of Servlet

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## Advantages of Servlet



# Online Library Management System



# Entities

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Book

User

Author

Genre

BookUser

# Author and Genre

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Author (Full Name, Birth Date)

Genre(Name unique)

Information in separate tables



# Book

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Book(Name, Cost, Pages, Number of books  
and Genre and Author)

Contains book information with Author, Genre  
relation

# User

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Contains user information with

Users Role

There will be two roles

User – can see taken books and available books

Admin – can manage all contents like

Author(CRUD), Genre(CRUD), Book(CRUD) and  
can add Admin also

# Features of Web Application

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WELCOME TO OUR ONLINE LIBRARY LOGIN PAGE

## Login

Username

Password

Login

Registration is here [👉 Register](#)

List of our Books [👉 List of our Books](#)

## Register

Firstname

Lastname

Username

Phone Number

Password

Register

Login is here [👉 Login](#)

List of our Books [👉 List of our Books](#)

# Admin panel features

Welcome to your Admin panel Javohir Uralov

Book	Author	Genre	Book User	User
Get all Books	Get Authors	Get Genres	All Given books	Get All Users
Add Book	Add Author	Add Genre	Add Book to User	Add Admin
			Receive Book from User	

# Admins can manage All(Book Entities)

## LIST OF BOOKS

id	Name	Cost	Genre Id	Pages	Total Numbers	Left numbers	Author Id		
1	Harry Potter and the Philosopher's Stone	23.0	1	223	5	5	1	Edit	Delete
2	Harry Potter and the Chamber of Secrets's Stone	27.0	1	251	5	5	1	Edit	Delete
3	Harry Potter and the Prisoner of Azkaban's Stone	32.0	1	317	5	5	1	Edit	Delete
4	Harry Potter and the Goblet of Fire	43.0	1	636	5	5	1	Edit	Delete
5	War and Peace	21.0	2	1225	5	5	2	Edit	Delete

# List of books without registration

## LIST OF BOOKS

By name(contains ignore case)

Search

id	Name	Cost	Genre	Pages	Total Numbers	Left numbers	Author
1	Harry Potter and the Philosopher's Stone	23.0	Fantasy	223	5	5	Joanne Rowling
2	Harry Potter and the Chamber of Secrets's Stone	27.0	Fantasy	251	5	5	Joanne Rowling
3	Harry Potter and the Prisoner of Azkaban's Stone	32.0	Fantasy	317	5	5	Joanne Rowling
4	Harry Potter and the Goblet of Fire	43.0	Fantasy	636	5	5	Joanne Rowling
5	War and Peace	21.0	Novel (Historical novel)	1225	5	5	Lev Tolstoy

# Users Personal Cabinet(Can see taken books)

WELCOME YOUR PERSONAL CABINET IZZATBEK MAVLONOV

## LIST OF BOOKS

id	Name	Cost	Genre	Pages	Author
3	Harry Potter and the Prisoner of Azkaban's Stone	32.0	Fantasy	317	Joanne Rowling
5	War and Peace	21.0	Novel (Historical novel)	1225	Lev Tolstoy

EDIT YOUR PERSONAL ACCOUNT

Edit Account

# Control of given and taken books(For admin)

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## Adding Book to User

Username of user

Id of given book

Number of books

Add