

Guru Nanak Dev University, Amritsar

Six Months Industrial Training Project Report

On

DIGIBOOKS

Submitted in the Partial fulfillment of the requirement for the Award of Degree of

Bachelors of Computer Applications



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DEPARTMENT OF COMPUTER SCIENCE

Training Certificate Signed By the Training Manager/incharge with Organization's Seal.

CERTIFICATE

This is to certify that the project report entitled “Digibooks” submitted by Komalpreet Kaur in partial fulfillment of the requirement for the award of the degree of Bachelors of Computer Applications is a bonafide record of the work carried out under guidance and supervision at Guru Nanak Dev University ,Amritsar and VMM Institute Amritsar.

Signature

Guide

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ACKNOWLEDGEMENT

I am highly grateful to my guide **Mrs Parminder Kaur Mam**, Associate professor Dept.of Computer Science, Guru Nanak Dev University, Amritsar for providing this opportunity to carry out the six months industrial training training at **VMM** (Venus Mind Media).. It was purely on the basis of her experience and knowledge that I am able to clear all the theoretical and technical hurdles during the development phases of this project work.

The completion of this dissertation would not have been possible without the help and encouragement of my guide and many professional acquaintances .I would like to thank all the people who helped me in one and another way to complete my project work.

I want to express gratitude to other faculty members of Department of Computer science and Technology for their intellectual support throughout the training course.

Finally, I would like to thank all my family members for their cooperation and good wishes in completing my work.

Komalpreet Kaur

TABLE OF CONTENTS

Sr. No.	Topic	Page No.
1.	Brief of Organization	1-3
2.	Project Description	4-5
3.	Language Used: Java ➤ Introduction to Java	6-15
4.	Tools used for Development	16-18
5.	Hardware and Software Requirements	19
6.	Model Used	20-22
7.	System Development Life Cycle: ➤ Preliminary investigation ➤ Modules of Project ➤ Feasibility Study ➤ System Analysis ➤ System Design ➤ Data Flow Diagrams ➤ Screenshots ➤ Testing ➤ Validation & Verification Checks	23-65 23 24 26 26 26 28 33 64 65
8.	Implementation	66
9.	Future Enhancements	67
10.	Epilogue	68
11.	Bibliography	69

ORGANIZATION PROFILE

VMM Education's journey started in January 2005 with a vision of bringing computer education of global standard to the holy city of Amritsar. To turn this dream into reality we create a talent pool of bright young minds who would power the engines of growth of the global economy. Today seven years later

VMM Education or VMM, as it is popularly known, is the largest and the most trusted computer centre of the region, with annual turn out of more than 1000 students. The reason for the success of VMM is simply the "Hard work" that our team has put in these seven years.

VMM Education:

VMM Education provides world class training in global technologies such as .Net and Linux, while keeping our syllabus up to date with the current industry standard. We have managed to successfully train more than 7000 engineers who are currently working in Global Multinationals like TCS, Tech Mahindra, Infosys, CSC etc.

VMM is today the favourite choice of students of various engineering college for pursuing their six months or six weeks industrial training .A unique "industry-endorsed curriculum," crafted by professionals of VMM which enhances the job-readiness and employability of learners and equips them for the IT Industry.

To provide IT education which can match with the global IT standards, VMM also undertakes industrial projects from UK & USA under the banner of Venus Software Solutions like im4schools.co.uk and many more. This allows our students to work on the live projects and make projects for the industry. Some of our products include Point of sale software for Super Markets with barcode reader support, Finger print attendance Management System that works for schools, colleges and other institutes, Remote LAN Controller which is used to view remote desktops on LAN or WAN.

VMM has the world class computer labs that are equipped with the latest Hardware and software so that the students can do practical without any hindrance. We continuously upgrade our hardware and software's every 6 months.

Attendance of students is one of the major features of VMM, students are required to record their day to day attendance using Biometric Finger-print Recognition device. This allows us to provide accurate attendance of students to their parents and college during their training time.

Some Key learning solutions for Individuals include the following:

Foundation course

This course includes two languages C and C++ that allows us to build a strong foundation of programming for the beginner and First year & Second year engineering graduates.

Six Weeks Industrial training

This training program which is of 42 working days allows the 3rd year engineering graduates to get hands on experience on either of the following technologies VB.Net ,C#.Net & SQL. This training is pretty intensive as the students are required to spend 4-8 hours at the institute learning any one of the above languages along with developing a project by working in team. This allows students to learn how to work as team member and also gets hands on training on the latest technology.

Six Months Industrial Training

Doing your six months industrial training at VMM is a very special experience for any engineering graduate as it allows the students to nurture his / her of knowledge by working on Technologies like ASP.Net, Silverlight, AJAX etc. The candidate is required to spend almost whole day at institute doing their Lab practical or attending their tutorial lecture and developing a project which they can submit in their college as a part of dissertation.

7 Months Project Training

This program is for the final year BCA students who can learn latest technologies like VB.Net, C#.Net, ASP.Net and make their project.

Individual Skill enhancement programs

Apart from above training program VMM provides a bouquet of courses in windows application development using VB.Net/C#.Net, Web Development using ASP.Net.

Veenus Mind Media or VMM is a Software Solutions Provider. The company specializes in providing industry-focused solutions and customized development. The development work ranges from management oriented solutions utilizing the latest of databases, design and programming tools to web development designing and Network resources.

The Group

Veenus Mind Media is a software arm of Hotel Veenus International (Amritsar), it is one of the fastest growing software solution provider extending its arms in diversified activities such as School & College Network AMC's, Wi-Fi Internet Management solutions in school/colleges/Shopping Malls & Hotels, customized software development, Web-Site Development & Web Marketing (SEO) The total Turnover of entire group is more than 5 million (INR)

Sister concerns:

- a) Hotel Veenus International
- b) S.K Tour & Travels
- c) Harmind Shawls
- d) Jaws Arts

VMM commenced its operations in the year 2004 as 100% software consultants. VMM was started from one home computer and today VMM has got infrastructure of more than one million (INR).VMM operates it two wings one is of the software consultancy services and other is **VMM Education** i.e. the Education wing which deals with providing the world class computer education to its students

PROJECT DESCRIPTION

Project Name:

Digibooks

Objective:

The objective of the project is to create a client server system to read e-books and audio-books, to upload e-books and to download books for reading offline. The existing system is the system in which we need to go to bookshop to buy books. So enormous time is wasted in travelling and there is wastage of paper used in making books. My project's aim is to make the process of buying and reading books online. User can read some books even free. User can download the books for reading in future. It will save the time of travelling to buy books and even save paper. User can carry any number of e-books at a time as it is easy to hold e-books.

FEATURES OF THE PROJECT

❖ ADMIN

- Login Module:
 - Admin can login to his account.
- Change Password Module:
 - Admin can change his password.
- Manage Users Module:
 - Admin can block users.
 - Admin can unblock users.
- Book Categories Module:
 - Admin can add new categories for books.
 - Admin can manage already added module.
- Manage Books Module:
 - Admin can add books to the server.
 - Admin add pricing policy of books (free, paid, subscription based).
 - Admin can delete already added books.

❖ USER

- Signup Module:

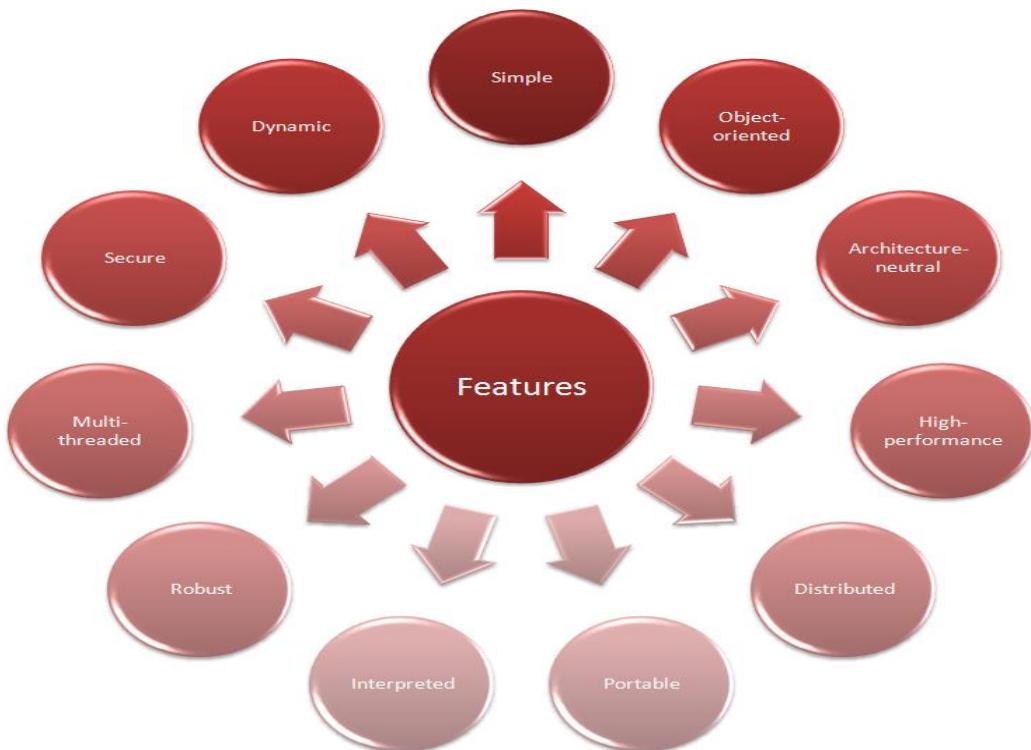
- User can sign up by providing required information.
- Login Module:
 - User can login to his account by using the credentials he signed up with.
- Change Password Module:
 - User can change his password.
- Recover Password Module:
 - User can recover his password by answering the security question chosen at time of signup.
- Manage Bookshelf:
 - Bookshelf contains the books that the user has bought or subscribed.
 - User can add/remove books from his bookshelf.
- Read Books:
 - User can read books online from his bookshelf.
 - User can also download books to read offline.
- Sync Books across Devices:
 - Any book in bookshelf is available on all devices of user.
 - Reading Progress in one device is synced over to another device.
- Upload Books:
 - User can also upload his e-books.
 - These can be kept as private or public.
- Preview Books:
 - Read a few pages before buying a book.
- Review Books:
 - User can add review and rating for the books he has read.

INTRODUCTION TO JAVA LANGUAGE

Java is a general purpose and the most popular object-oriented programming language. Java was developed by James Gosling and his colleagues at Sun Microsystems in the early 1990's.

Due to its simplicity and easy to learn and advanced features, we opted this language for our six months industrial training. This language supports many interesting features that make it an ideal language for software development. In addition to the object oriented features, it also provides features such as platform independence, security, multithreading, portability; etc which makes it well suited for the web and networked services, applications, platform-independent desktops, robotics and any other embedded devices.

Features of Java:



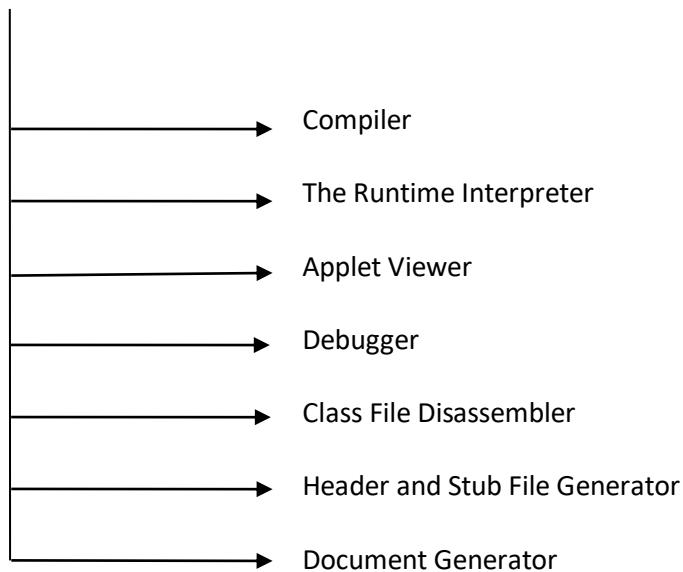
- **Simple:** Java is a compact and simple language. Programs are easy to write and debug as it omits many clumsy, poorly understood and confusing features of other programming languages such as C++.
- **Object-oriented:** Java is purely object-oriented language because programming in java is centered on creating objects; manipulating objects and making objects work together.

- **Distributed:** Java is a distributed language which means that the programs can be designed to run on computer networks. Java provides an extensive library of classes for communicating using TCP/IP protocols such as HTTP and FTP. This makes creating network connections much easier.
- **Robust:** Java is designed for writing programs that are highly robust. By robust, we mean reliable.
- **Secure:** As java is intended to be used in networked/distributed environments so it implements several security mechanisms to protect you against malicious code that might try to invade your file system.
- **Architectural Neutral:** This means that the programs written on one platform can run on any other platform without having to rewrite or recompile them. It follows ‘Write-once-run-anywhere’ approach.
- **Portable:** In Java, the size of the primitive data types is machine independent. These consistencies make java program portable among different platforms such as Windows, UNIX and Mac.
- **Interpreted:** Java is such a language that is both compiled and interpreted. The two steps of compilation and interpretation allow extensive code checking and improved security.
- **High performance:** Java programs are complied with portable intermediate form known as byte codes, rather than to native machine level instructions and JVM executes java byte codes on any machine on which it is installed. This architecture means that java programs are faster.
- **Multithreaded:** Java is also a multithreaded programming language. It allows you to write a program that can do many tasks simultaneously.
- **Dynamic:** Java is designed to be dynamic. Classes are stored in separate files and are loaded into the Java Interpreter only when they are needed.

JAVA DEVELOPMENT KIT (JDK)

The Java Development Kit (JDK) is a software package that sun has made available to public. It includes all the basic components that makeup the java environment. These include the Java compiler, Java Interpreter, an applet viewer that lets you see applets without opening a Java-compatible web browser.

JAVA DEVELOPMENT KIT (JDK)



APPLICATIONS OF JAVA

Java has evolved from a simple language providing interactive dynamic content for webpage's to a predominant enterprise-enables programming language suitable for developing significant and critical applications.

Today, Java is used for many applications like:

- Web based applications
- Financial applications
- Gaming applications
- Embedded applications
- Distributed enterprise applications
- Mobile applications
- Image applications

- E-business applications
- Desktop applications and many more.

Java Server Pages

Architecturally, JSP may be viewed as a high-level abstraction of Java servlets. JSPs are translated into servlets at runtime, therefore JSP is a Servlet; each JSP servlet is cached and re-used until the original JSP is modified.

JSP can be used independently or as the view component of a server-side model–view–controller design, normally with JavaBeans as the model and Java servlets (or a framework such as Apache Struts) as the controller. This is a type of Model 2 architecture.

JSP allows Java code and certain pre-defined actions to be interleaved with static web markup content, such as HTML, with the resulting page being compiled and executed on the server to deliver a document. The compiled pages, as well as any dependent Java libraries, contain Java bytecode rather than machine code. Like any other Java program, they must be executed within a Java virtual machine (JVM) that interacts with the server's host operating system to provide an abstract, platform-neutral environment.

JSPs are usually used to deliver HTML and XML documents, but through the use of OutputStream, they can deliver other types of data as well.

The Web container creates JSP implicit objects like request, response, session, application, config, page, pageContext, out and exception. JSP Engine creates these objects during translation phase.

JSP pages use several delimiters for scripting functions. The most basic is `<% ... %>`, which encloses a JSP scriptlet. A scriptlet is a fragment of Java code that is run when the user requests the page. Other common delimiters include `<%= ... %>` for expressions, where the scriptlet and delimiters are replaced with the result of evaluating the expression, and directives, denoted with `<%@ ... %>`.

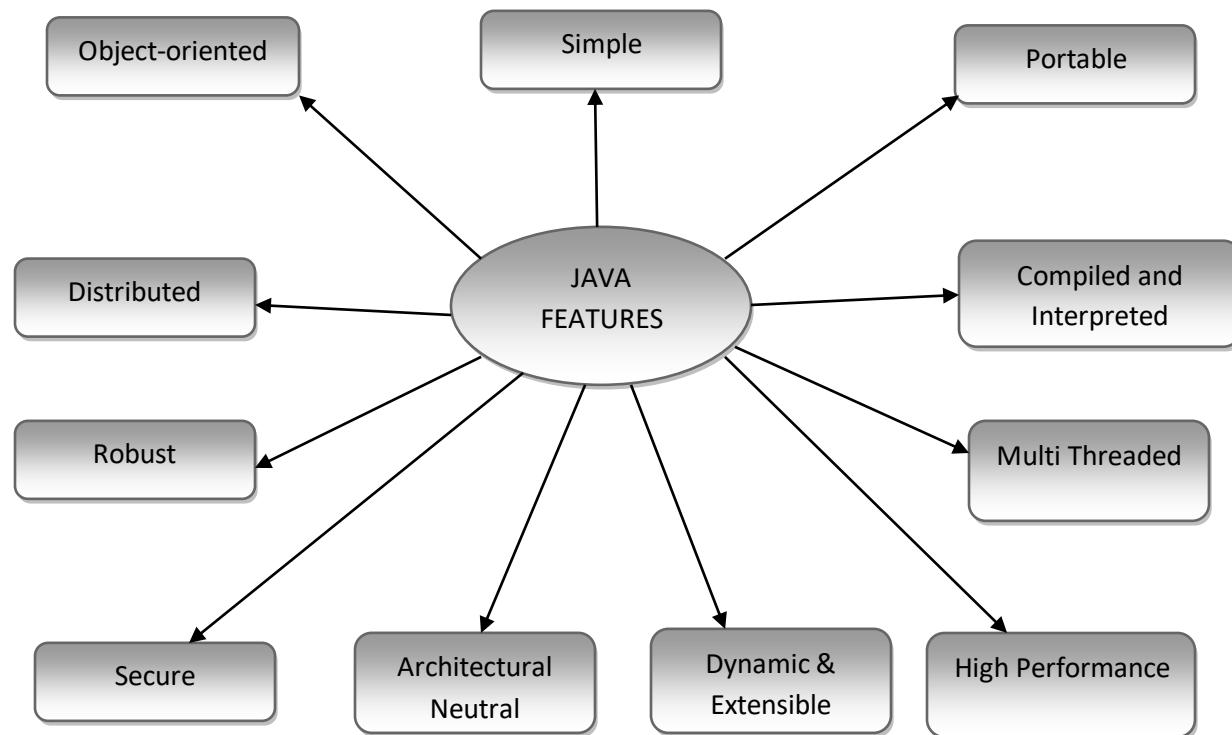
Java code is not required to be complete or self-contained within a single scriptlet block. It can straddle markup content, provided that the page as a whole is syntactically correct. For example, any Java if/for/while blocks opened in one scriptlet must be correctly closed in a later scriptlet for the page to successfully compile.

FRONT END

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Features of Java:



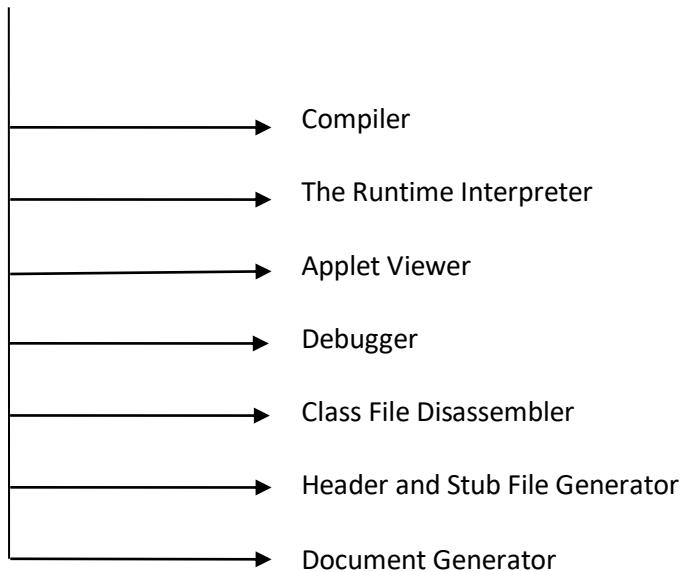
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Following is the list of main tools of JDK



APPLICATIONS OF JAVA

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- Distributed enterprise applications
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- Image applications
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- Desktop applications and many more.

Java Server Pages (JSP)

Java Server Pages (JSP) is a server-side programming technology that enables the creation of dynamic, platform-independent method for building Web-based applications. JSP have access to the entire family of Java APIs, including the JDBC API to access enterprise databases. This tutorial will teach you how to use Java Server Pages to develop your web applications in simple and easy steps.

Basically, any html file can be converted to JSP file by just changing the file extension from “.html” to “.jsp”, it would run just fine. What differentiates JSP from HTML is the ability to use java code inside HTML. In JSP, you can embed Java code in HTML using JSP tags. For e.g. run the code below, every time you run this, it would display the current time. That is what makes this code dynamic.

BACK END

MySQL

MySQL is an open source Relational Database Management System. MySQL is very fast reliable and flexible Database Management System. It provides a very high performance and it is multi threaded and multi user Relational Database management system.

MySQL is one of the most popular relational database Management System on the web. The MySQL Database has become the world's most popular open source Database, because it is free and available on almost all the platforms. The MySQL can run on Unix, window, and Mac OS. .

MySQL source code is available that's why now you can recompile the source code.

Features: The following list describes some of the important **Features of MySQL** Database Software.

- **Internals and Portability**
 - Written in C and C++.
 - Tested with a broad range of different compilers.
 - Works on many different platforms.
 - The **MySQL** code is tested with Purify (a commercial memory leakage detector) as well as with Valgrind, a GPL tool
 - The server is available as a separate program for use in a client/server networked environment. It is also available as a library that can be embedded (linked) into standalone applications. Such applications can be used in isolation or in environments where no network is available.
- **Column Types**
 - Many column types: signed/unsigned integers 1, 2, 3, 4, and 8 bytes long, FLOAT, DOUBLE, CHAR, VARCHAR, TEXT, BLOB, DATE, TIME, DATETIME, TIMESTAMP, YEAR, SET, ENUM, and OpenGIS spatial types.
 - Fixed-length and variable-length records.
- **Statements and Functions**
 - Full operator and function support in the SELECT and WHERE clauses of queries. For example:
 - Full support for SQL GROUP BY and ORDER BY clauses. Support for group functions (COUNT(), COUNT(DISTINCT ...), AVG(), STD(), SUM(), MAX(), MIN(), and GROUP_CONCAT()).
 - Support for LEFT OUTER JOIN and RIGHT OUTER JOIN with both standard SQL and ODBC syntax.
 - Support for aliases on tables and columns as required by standard SQL.
 - DELETE, INSERT, REPLACE, and UPDATE return the number of rows that were changed (affected). It is possible to return the number of rows matched instead by setting a flag when connecting to the server.

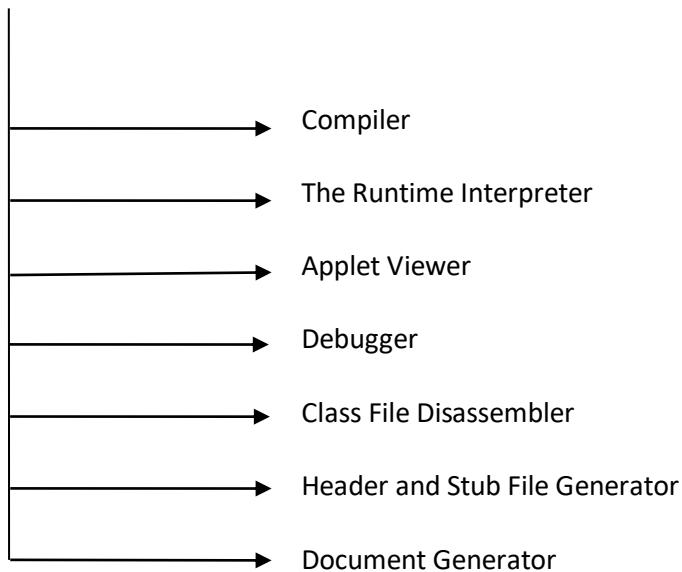
- **Security**
 - A privilege and password system that is very flexible and secure, and that allows host-based verification. Passwords are secure because all password traffic is encrypted when you connect to a server.
- **Scalability and Limits**
 - Handles large databases. We use **MySQL** Server with databases that contain 50 million records. We also know of users who use **MySQL** Server with 60,000 tables and about 5,000,000,000 rows.
 - Up to 64 indexes per table are allowed (32 before **MySQL** 4.1.2). Each index may consist of 1 to 16 columns or parts of columns. The maximum index width is 1000 bytes (500 before **MySQL** 4.1.2). An index may use a prefix of a column for CHAR, VARCHAR, BLOB, or TEXT column types.
- **Connectivity**
 - Clients can connect to the **MySQL** server using TCP/IP sockets on any platform. On Windows systems in the NT family (NT, 2000, XP, or 2003), clients can connect using named pipes. On UNIX systems, clients can connect using UNIX domain socket files.
 - In **MySQL** versions 4.1 and higher, Windows servers also support shared-memory connections if started with the --shared-memory option. Clients can connect through shared memory by using the --protocol=memory option.
 - The Connector/ODBC (MyODBC) interface provides **MySQL** support for client programs that use ODBC (Open Database Connectivity) connections. For example, you can use MS Access to connect to your **MySQL** server. Clients can be run on Windows or UNIX. MyODBC source is available. All ODBC 2.5 functions are supported, as are many others.
 - The Connector/J interface provides **MySQL** support for Java client programs that use JDBC connections. Clients can be run on Windows or UNIX. Connector/J source is available.
- **Localization**
 - The server can provide error messages to clients in many languages.
 - Full support for several different character sets, including latin1 (ISO-8859-1), German, big5, ujis, and more. For example, the Scandinavian characters 'â', 'ä' and 'ö' are allowed in table and column names. Unicode support is available as of **MySQL** 4.1.
 - All data is saved in the chosen character set. All comparisons for normal string columns are case-insensitive.

SOFTWARE TOOLS TO BE USED

JAVA DEVELOPMENT KIT (JDK)

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APPLICATIONS OF JAVA

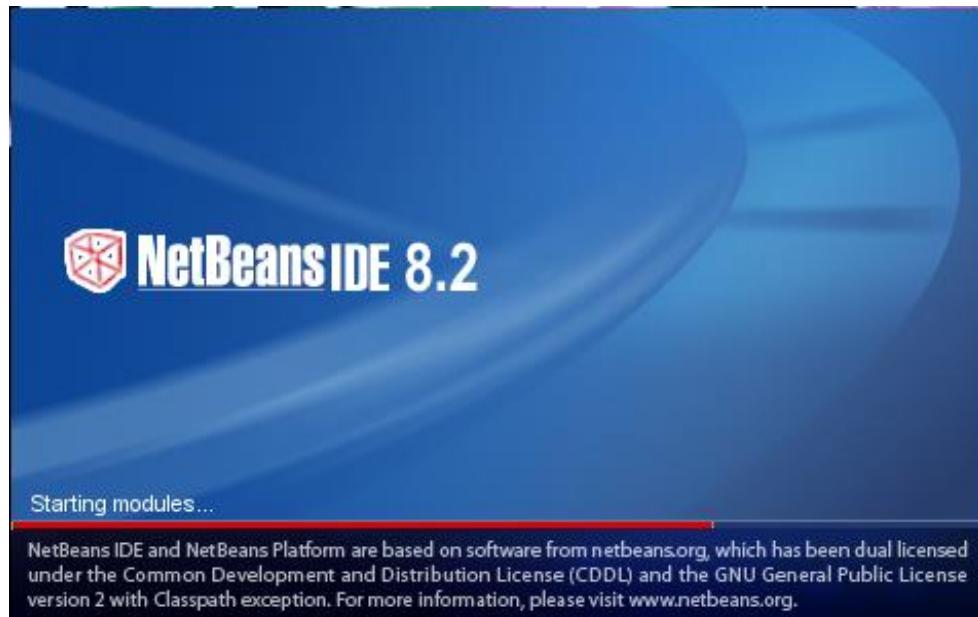
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Netbeans - integrated development environment



Net BeansIDE is a free, open source, popular integrated development environment used by many developers. Out of the box, it provides built-in support for developing in Java, C, C++, XML, and HTML. And this author especially likes the support for editing JSPs, including syntax highlighting, HTML tag completion, JSP tag completion, and Java code completion.

The basic steps for making a new project in java are as follows.

1. Create a new project
2. Mount a directory - specify a location to save project files
3. Add a new class to the project
4. Compile and run a Java program

Minimum Hardware Configurations

- Microsoft Windows XP Professional SP3/Vista SP1/Windows 7 Professional:

- Processor: 800MHz Intel Pentium III or equivalent
 - Memory: 512 MB
 - Disk space: 750 MB of free disk space
- Solaris OS version 10 (SPARC):
 - Processor: Ultra SPARC II 450 MHz
 - Memory: 512 MB
 - Disk space: 650 MB of free disk space
- Solaris OS version 10 (x86/x64 Platform Edition):
 - Processor: AMD Opteron 1200 Series 1.8 GHz
 - Memory: 512 MB
 - Disk space: 650 MB of free disk space
- Macintosh OS X 10.5 Intel:
 - Processor: Dual-Core Intel (32 or 64-bit)
 - Memory: 512 MB
 - Disk space: 650 MB of free disk space

REQUIREMENTS

HARDWARE REQUIREMENTS:

Hardware requirements include that hardware which is required for its working. It includes:

- i3 or i5 Computer
- 4GB RAM
- High Speed Internet Connection(DSL/Cable)

SOFTWARE REQUIREMENTS

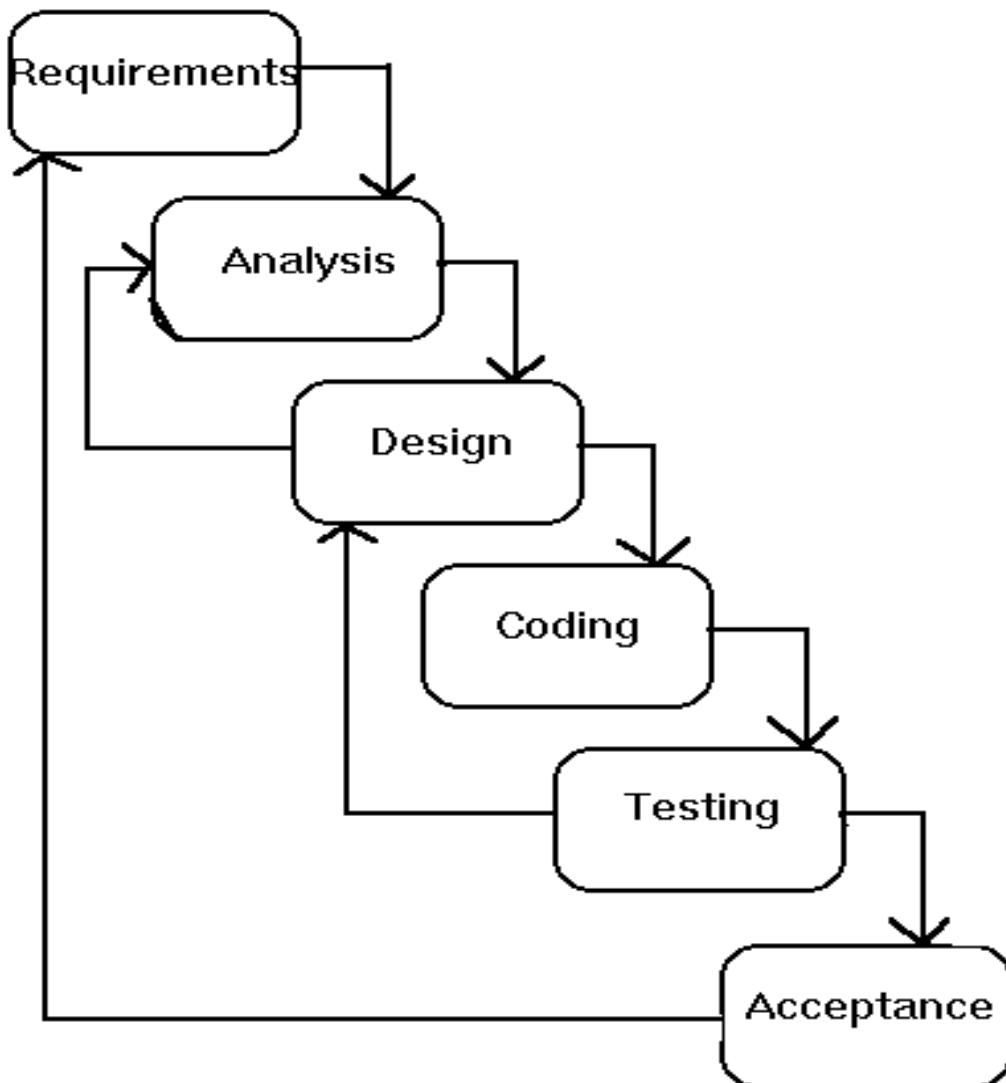
The software is developed using Java (IDE net beans). It can run and maintained with expertise on computers .Its user friendliness is not limited to the simplicity and ease of operation .The technical specifications of requirements for the software are as follows:

- Any Operating System (Windows, Linux, MAC)
- Java run time environment
- Netbeans (Java IDE)
- Java SDK (Software Development Kit)
- Any web browser(Chrome, Firefox, etc)

MODEL USED

Waterfall Model

The waterfall model is a sequential design process, often used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of Conception, Initiation, Analysis, Design, Coding, Testing, Implementation, and Maintenance.



The waterfall model (Systems Development Life Cycle)

In waterfall model, the following phases are followed in order:

1. Requirements specification
2. Feasibility Study
3. Design & Coding
4. Integration & Testing
5. Implementation
6. Maintenance

Requirement Analysis & Definition: All possible requirements of the system to be developed are captured in this phase. Requirements are set of functionalities and constraints that the end-user (who will be using the system) expects from the system. The requirements are gathered from the end-user by consultation, these requirements are analyzed for their validity and the possibility of incorporating the requirements in the system to be development is also studied. Finally, a Requirement Specification document is created which serves the purpose of guideline for the next phase of the model.

System & Software Design: Before a starting for actual coding, it is highly important to understand what we are going to create and what it should look like? The requirement specifications from first phase are studied in this phase and system design is prepared. System Design helps in specifying hardware and system requirements and also helps in defining overall system architecture. The system design specifications serve as input for the next phase of the model.

Implementation & Unit Testing: On receiving system design documents, the work is divided in modules/units and actual coding is started. The system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality; this is referred to as Unit Testing. Unit testing mainly verifies if the modules/units meet their specifications.

Integration & System Testing: As specified above, the system is first divided in units which are developed and tested for their functionalities. These units are integrated into a complete system during Integration phase and tested to check if all modules/units coordinate between each other and the system as a whole behaves as per the specifications. After successfully testing the software, it is delivered to the customer.

Operations & Maintenance: This phase of "The Waterfall Model" is virtually never ending phase (Very long). Generally, problems with the system developed (which are not found during the development life cycle) come up after its practical use starts, so the issues related to the system are solved after deployment of the system. Not all the problems come in picture directly but they arise time to time and needs to be solved; hence this process is referred as Maintenance.

Advantages

The advantage of waterfall development is that it allows for departmentalization and managerial control. A schedule can be set with deadlines for each stage of development and a product can proceed through the development process like a car in a carwash, and theoretically, be delivered on time. Development moves from concept, through design, implementation, testing, installation, troubleshooting, and ends up at operation and maintenance. Each phase of development proceeds in strict order, without any overlapping or iterative steps.

Disadvantages

The disadvantage of waterfall development is that it does not allow for much reflection or revision. Once an application is in the testing stage, it is very difficult to go back and change something that was not well-thought out in the concept stage. Alternatives to the waterfall model include joint application development (JAD), rapid application development (RAD), synch and stabilize, build and fix, and the spiral model.

SYSTEM DEVELOPMENT LIFE CYCLE

PRELIMINARY INVESTIGATION

REQUIREMENT ANALYSIS

The preliminary investigation is the introductory step in a system development project. In this phase, the preliminary investigation is done to find that what are the problems occurring in existing system or why there is a need to develop a proposed system.

Existing System

The existing book reading system is as we know, is a system in which we need to buy books to read or go to library and search for book and then read. So, we need to go to market and move from shop to shop to buy book and compare prices of book. We cannot review a book .We cannot buy a book according to review of people. We cannot get to know whether the book we are buying is really good or not before reading it.

PROBLEMS ENCOUNTERED

- Books are heavy and big in size. You can only carry a book or two in your hands and you will need a bag to carry more books which is not a good option.
- No matter how much they claim, a single book will cost so many trees their life that you can't just imagine.
- You can't read a book in a tunnel or a night without a light source, while an eBook can be read at any time of the day, same is not possible with a book.
- Books are not much durable. Either the ink get fades away or the paper starts degrading.
- Large amount of space is occupied by books.

PROPOSED SYSTEM

In the proposed system Admin will login to his account. Admin will add books. Admin will add category to book. Admin will be able to block users or unblock users. Admin will add pricing policy of books (free, paid, subscription based).Admin can delete already added books. User will need to sign up for reading e-books and listening audio books. After signup user will need to select a package to buy e-books. After making payment user will be able to read all the books covered under that package. User can review a book. User can read books according to reviews

given by other people. User can select whether he wants to read e-books or listen audio books. User can manage his bookshelf which contains the books that the user has bought or subscribed. User can add/remove books from his bookshelf. User can read books online from his bookshelf. User can also download books to read offline. Any book in bookshelf is available on all devices of user. Reading Progress in one device is synced over to another device. User can also upload his e-books. These can be kept as private or public. User can preview a book before buying a book.

MODULES IN THE PROJECT

❖ ADMIN

- Login Module:
 - Admin can login to his account.
- Change Password Module:
 - Admin can change his password.
- Book Categories Module:
 - Admin can add new categories for books.
 - Admin can manage already added module.
- Manage Books Module:
 - Admin can add books to the server.
 - Admin add pricing policy of books (free, paid, subscription based).
 - Admin can delete already added books.
- Manage Gallery Module:
 - Admin can add gallery of books.
 - Admin can delete already added gallery.
- Manage messages:
 - Admin can view messages of users.
 - Admin can delete messages from users.

❖ USER

- Signup Module:
 - User can sign up by providing required information.

- Login Module:
 - User can login to his account by using the credentials he signed up with.
- Change Password Module:
 - User can change his password.
- Recover Password Module:
 - User can recover his password by answering the security question chosen at time of signup.
- Manage Bookshelf:
 - Bookshelf contains the books that the user has bought or subscribed.
 - User can add/remove books from his bookshelf.
- Read Books:
 - User can read books online from his bookshelf.
 - User can also download audio books.
- Sync Books across Devices:
 - Any book in bookshelf is available on all devices of user.
 - Reading Progress in one device is synced over to another device.
- Preview Books:
 - Read a few pages before buying a book.
- Review Books:
 - User can add review and rating for the books he has read.

FEASIBILITY STUDY

A feasibility study is a preliminary study which investigates the information needs of prospective users and determines the resource requirements, determining the cost effectiveness of various alternatives in the designs of the information system, benefits and feasibility of proposed project.

The goal of the feasibility study is to evaluate alternative systems to propose the most feasible and desirable systems for development.

The feasibility of our proposed system can be evaluated as:-

- **TECHNICAL FEASIBILITY:** Technical feasibility can be demonstrated if reliable hardware and software capable of meeting needs of proposed system can be developed or acquired by the business in required time. Our project is technically feasible because the required hardware and software needed for our project are made available to us by our lab technician.
- **SCHEDULE FEASIBILITY:** The scheduled feasibility of the system evaluates whether the system finishes its task within the provided time of the development or not. Our project is feasible according to schedule because our project is being completed within the specified time period of our semester.
- **OPERATIONAL FEASIBILITY:** The operational feasibility is responsible for the operations of management, faculty members, and students involved in a project. Our project is operationally feasible because the modules we have considered such as Manual Downloading, Auto Downloading and Manual Uploading provides a combined platform by using which the related tasks can be handled in a easy manner. Though it doesn't include the process of auto uploading but it is operational to full extent.

SYSTEM ANALYSIS

System analysis involves a detailed study of current system, leading to specifications of new system. Analysis is detailed study of various operations performed by a system and the relationships within and outside the system.

The project Digibooks includes different operations such as:-

AT ADMIN END:

- Adding Books
- Adding Gallery
- Manage Categories
- Manage Subcategories

AT USER END:

- View Books
- Search books
- Review books
- Add to favorite
- Add to library
- Read books
- Download audio books

SYSTEM DESIGN

The most creative and challenging phase of **SYSTEM DEVELOPMENT LIFE CYCLE** is the **System Design**. The term **Design** describes the final system and process by which it is developed. It refers to technical specification that will be applied in implementation of, the candidate system. It also includes the construction of programs and program testing. Here the key question is “How the problem should be solved?”

STRUCTURED ANALYSIS

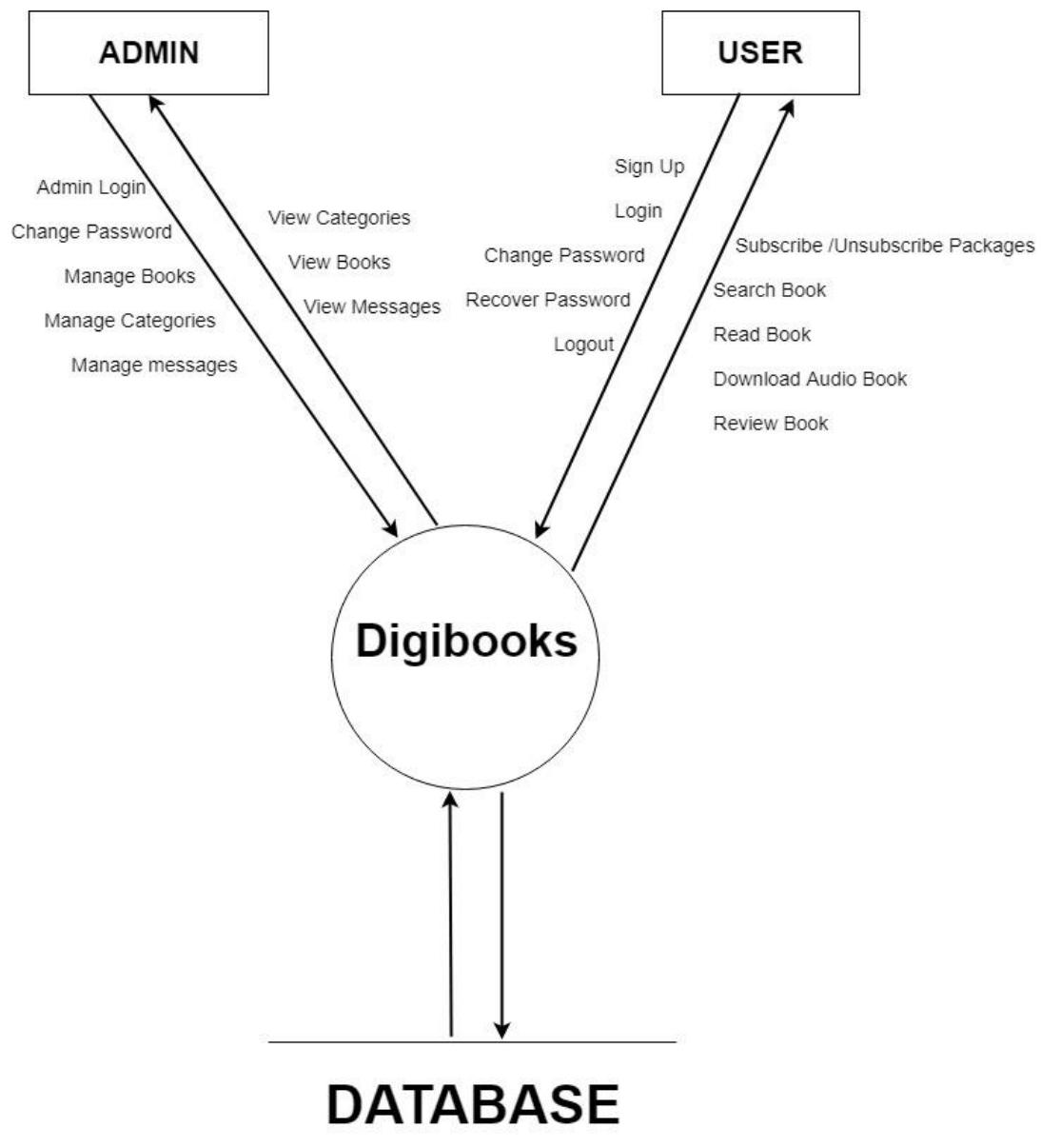
Structured analysis is a set of techniques and graphical tools that allow the analyst to develop a new kind of system specifications that are easily understandable to the user.

DATA FLOW DIAGRAM

A DFD also known as “bubble chart” or “data flow graphs” for the purpose of classifying system requirements and identifying major transformations that will become programs in system design. A DFD shows the flow of data through a system. It views the system as a function that transforms the inputs into desired outputs. The DFD aims to capture the transformation that takes place within a system to the input data so that eventually the output data is produced.

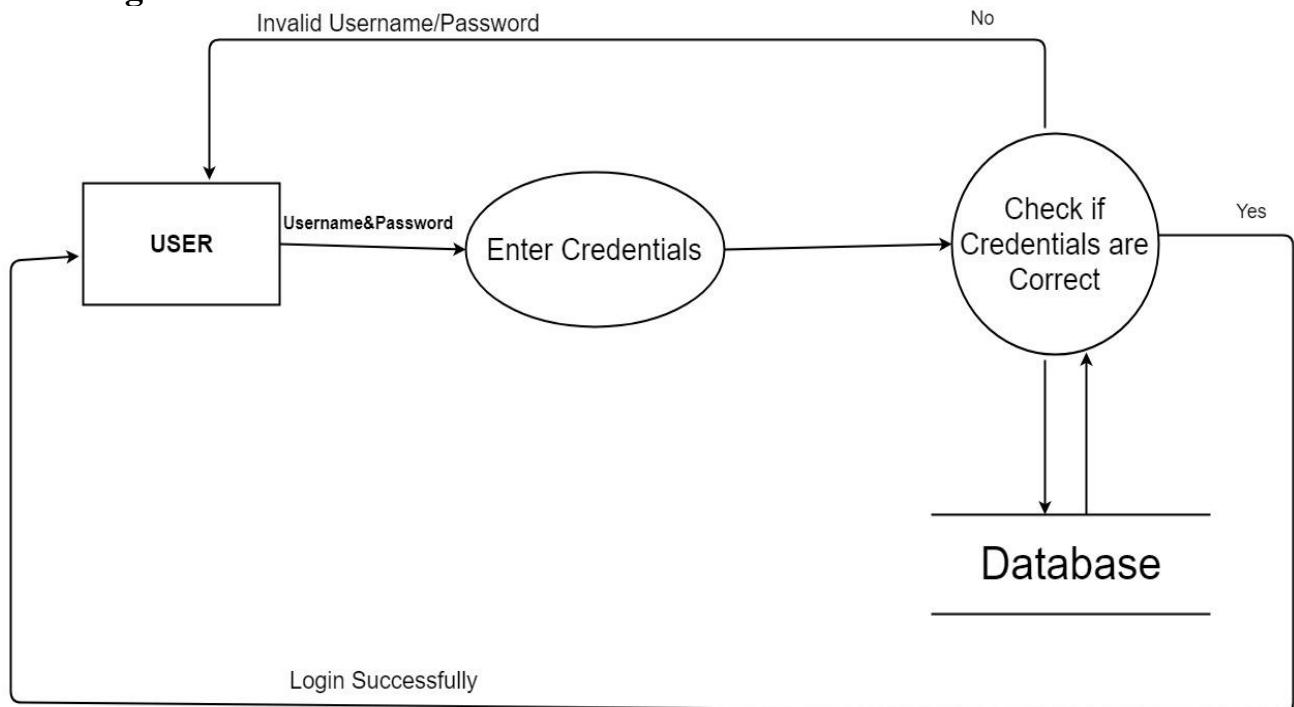
DATA FLOW DIAGRAMS

Level 0 DFD

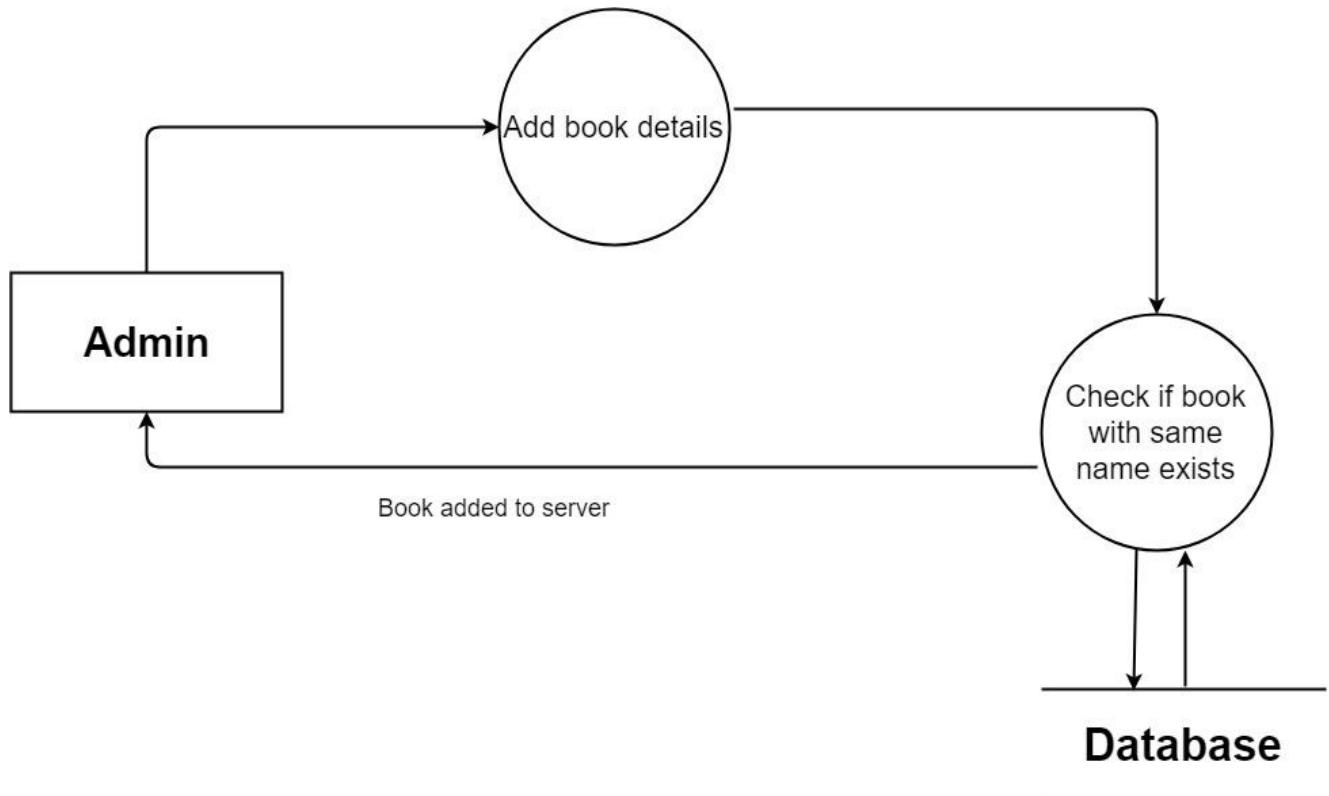


Level 1 DFDs

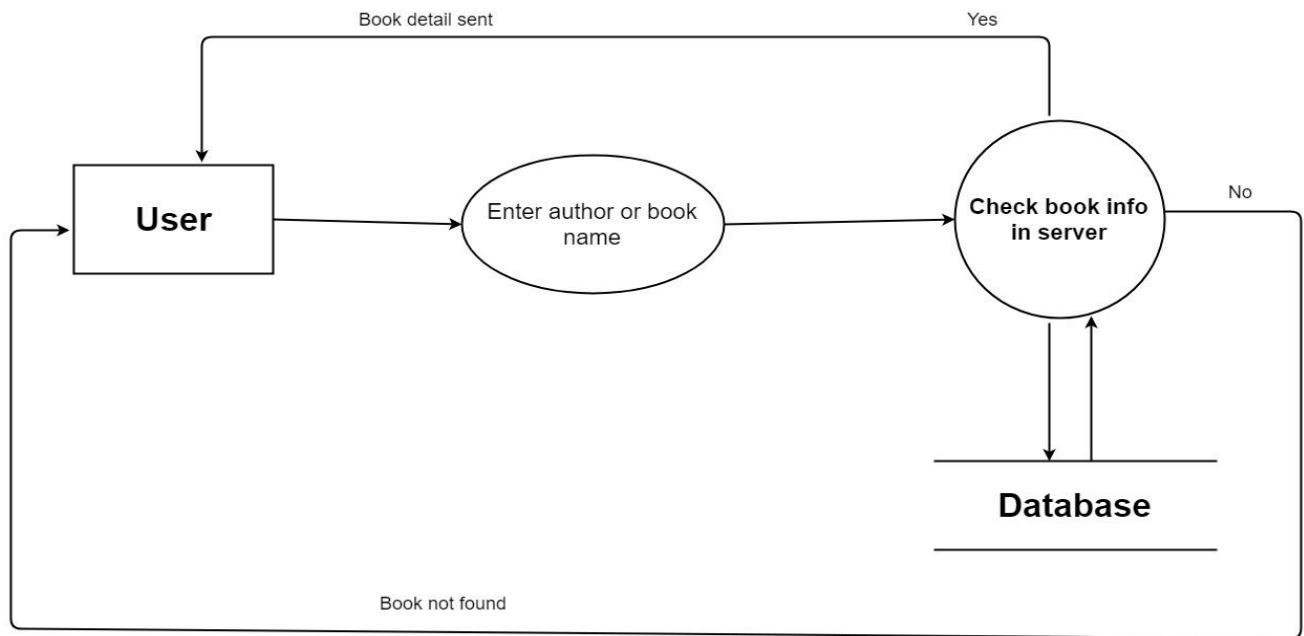
User Login



Add Books



View Books



ER DIAGRAM

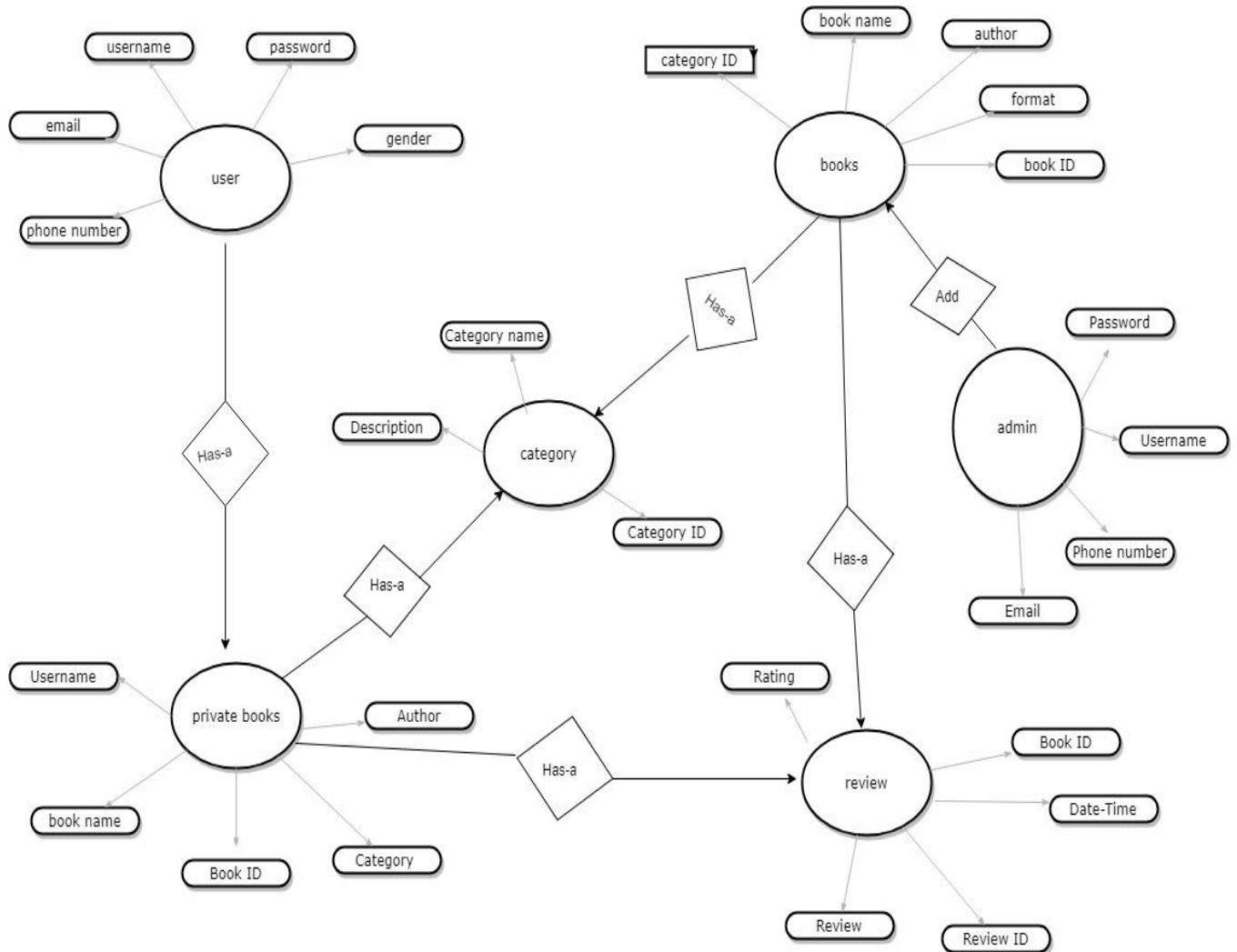
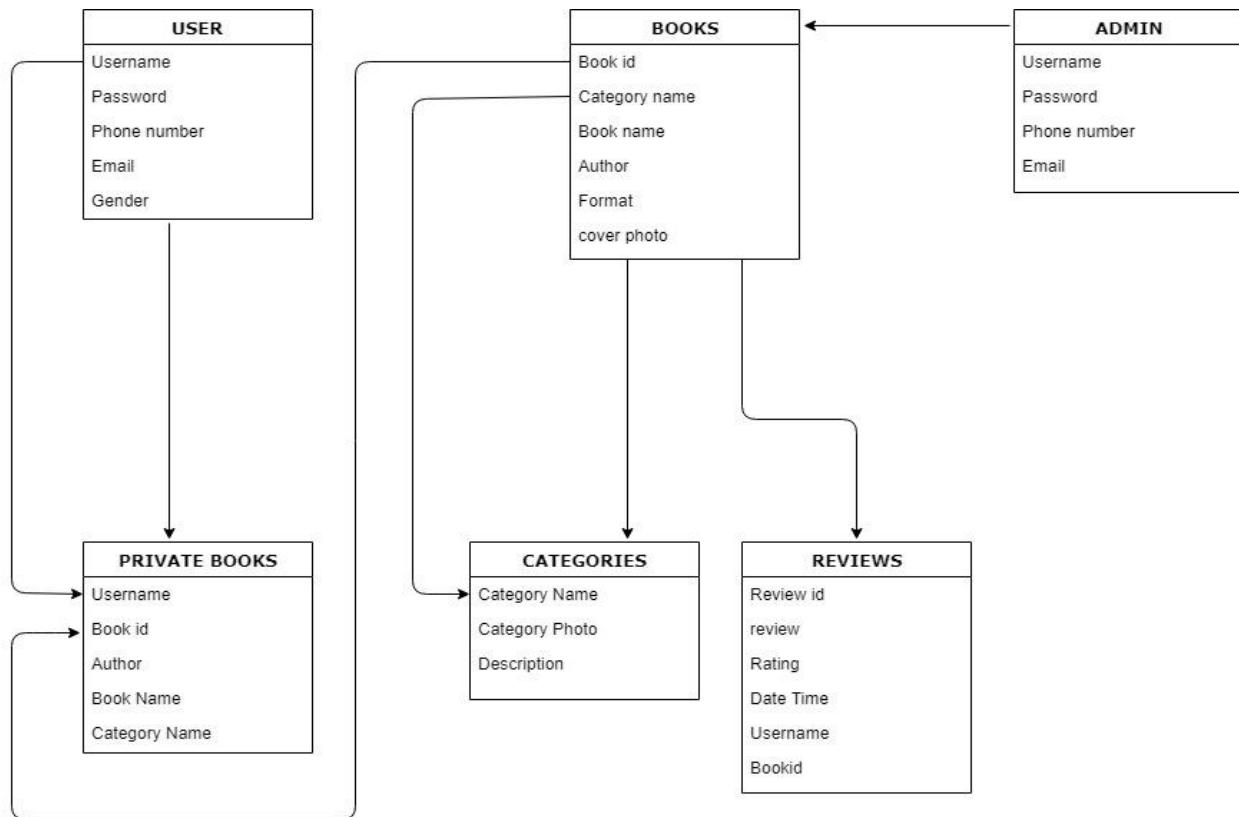


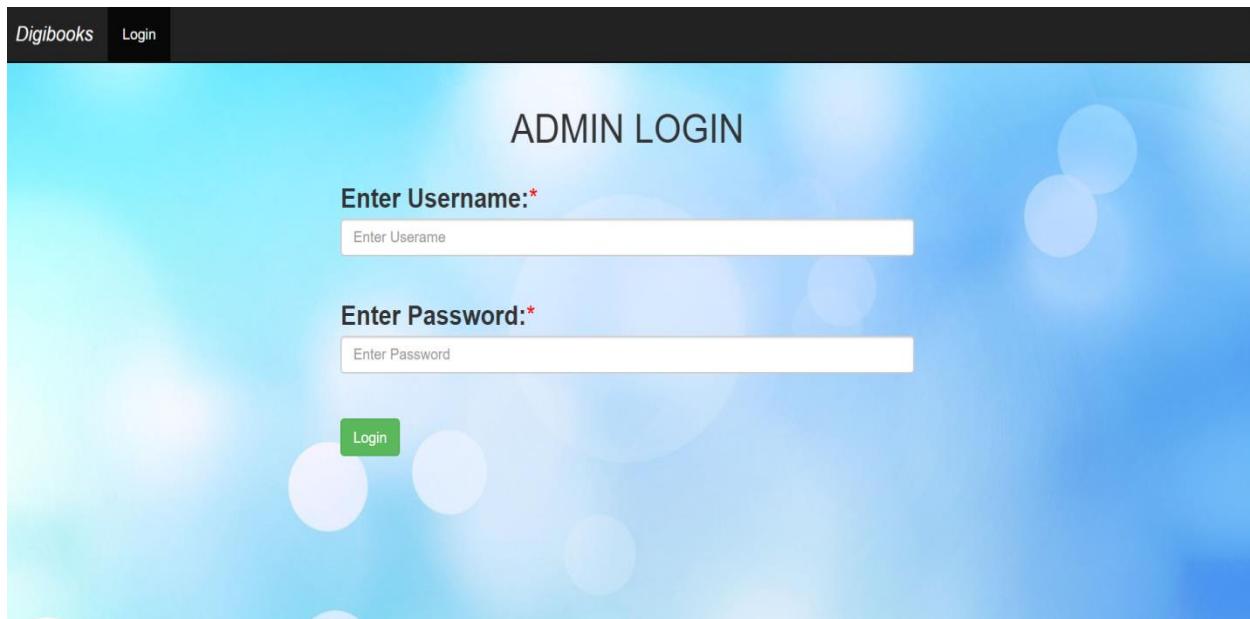
TABLE DESIGN



SCREENSHOTS

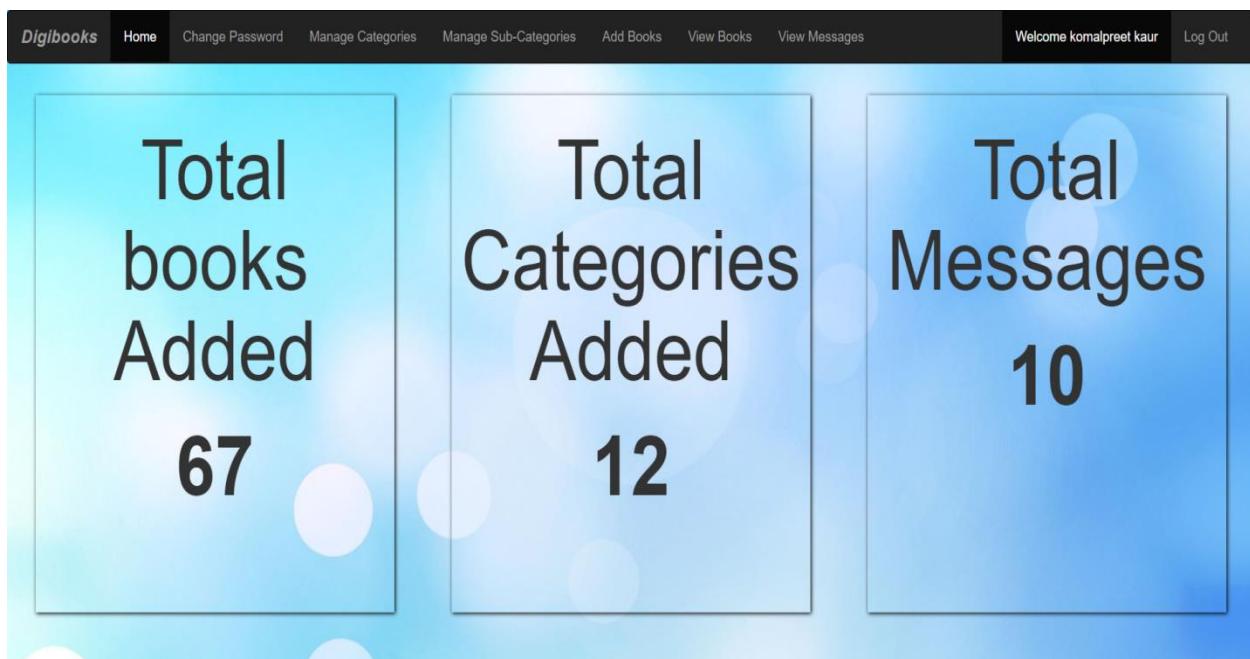
ADMIN END

Admin login: Admin will login here.



The screenshot shows the 'ADMIN LOGIN' page. At the top left is the 'Digibooks' logo and a 'Login' button. The main title 'ADMIN LOGIN' is centered at the top. Below it are two input fields: 'Enter Username:' with a placeholder 'Enter Username' and 'Enter Password:' with a placeholder 'Enter Password'. A green 'Login' button is located below the password field. The background has a blue gradient with white circular bokeh effects.

Adminhome: This is admin home page.



Admin change password: Admin Change password form appears like this.

The screenshot shows a modal dialog titled "Change Password Form". It contains four input fields: "Username:" (komalpreet kaur), "Old Password:" (Enter Old Password), "New Password:" (Enter New Password), and "Confirm Password:" (Confirm Password). Below the inputs is a green "change password" button. In the bottom right corner of the modal, there is an orange "Close" button.

Admin Change Password: Constraint if old password does not match.

The screenshot shows a modal dialog titled "Change Password Form". It contains four input fields: "Username:" (komalpreet kaur), "Old Password:" (1234), "New Password:" (...), and "Confirm Password:" (...). Below the inputs, a red error message "old password does not match" is displayed. At the bottom of the modal, there is a green "change password" button. In the bottom right corner of the modal, there is an orange "Close" button.

Manage categories: Admin can manage categories from here.

The screenshot shows a 'Manage Categories' page with a form for adding a new category. The form includes fields for 'Category Name:' (with placeholder 'Enter Category Name'), 'Description:' (with placeholder 'Enter Category Description'), and 'Photo:' (with a placeholder image and a 'Choose File' button). A green 'ADD' button is located at the bottom of the form.

Already added categories: Already added categories will appear here.

Already Added Categories				
Category Name	Description	Photo	Edit	Delete
Autobiography	An Autobiography gives the history of a person's life, written or told by that person.		Edit	Delete
Children	Children's Book is material written or produced for the information or entertainment of children or young adults.		Edit	Delete
Crime	Crime is how the criminal gets caught and serve time, and the repercussions of the crime.		Edit	Delete
Fantasy	A Book under this genre contains a story set in a fantasy world, a world that is not real and often includes magic, magical creatures, and supernatural events.		Edit	Delete
Horror	Horror is a genre that is intended to or has the ability to create the feeling of fear, repulsion, fright or terror in the readers.		Edit	Delete

Mystery	Mystery books have a suspenseful plot that often involves a mysterious crime. Suspects and motives are considered and clues throughout the story lead to a solution to the problem.		Edit	Delete
Poetry	Poetry is one of the most important genres of books in which the expression of feelings and ideas is given intensity by the use of distinctive style and rhythm.		Edit	Delete
Romance	The primary focus of romance fiction is on the relationship and romantic love between two people.		Edit	Delete
Short Story	A short story is a short prose fiction that typically can be read in one sitting.		Edit	Delete
Textbook	A textbook is a manual of instruction in any branch of study. It contains an authoritative and detailed factual description of a topic.		Edit	Delete
Thriller	This genre of book is characterized and defined by the moods they evoke among the readers, giving them heightened feelings of suspense, excitement, thrill, surprise, anticipation, and anxiety.		Edit	Delete
Young Adult	A term used to refer to the books published for young people between the ages of twelve and seventeen.		Edit	Delete

Edit Category Detail: Admin can edit category detail here.

Edit Categories

Category Name:
Crime

Description:
Crime is how the criminal gets caught and serve time, and the repercussions

Edit

Close

gets caught and serve time, and the repercussions of the crime.

Edit category photo: Admin can edit category photo.

Edit Photo

Category Name:
Autobiography

Photo:
 Choose File No file chosen

Edit Photo

Close

Sub categories: Already added sub-categories will appear here.

Already Added Sub-Categories					
Category Name	Sub-Category	Description	Photo		
Textbook	Chemistry	Chemistry is the scientific discipline involved with elements and compounds composed of atoms, molecules and ions: their composition, structure, properties, behavior and the changes they undergo during a reaction with other substances.		Edit	Delete
Textbook	Computer science	Computer science is the study of processes that interact with data and that can be represented as data in the form of programs. It enables the use of algorithms to manipulate, store, and communicate digital information.		Edit	Delete
Textbook	Mathematics	Mathematics includes the study of such topics as quantity, structure, space, and change. Mathematicians seek and use patterns to formulate new conjectures; they resolve the truth or falsity of conjectures by mathematical proof.		Edit	Delete
Textbook	Physics	Physics is one of the most fundamental scientific disciplines, and its main goal is to understand how the universe behaves. Physics is one of the oldest academic disciplines and, through its inclusion of astronomy, perhaps the oldest.		Edit	Delete

Add books: Admin can add books from here.

ADD BOOKS

Book Name: [*]	<input style="width: 100%; height: 25px; border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;" type="text"/>
Book Author: [*]	<input style="width: 100%; height: 25px; border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;" type="text"/>
isbn: [*]	<input style="width: 100%; height: 25px; border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;" type="text"/>
Cover Photo: [*]	<div style="border: 1px solid #ccc; width: 100px; height: 100px; position: relative; border-radius: 5px; margin-bottom: 5px;">  Choose File No file chosen </div>
category: [*]	<input style="width: 100px; height: 25px; border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;" type="text"/>
Description: [*]	<input style="width: 100%; height: 50px; border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;" type="text"/>
Book Path: [*]	<input style="width: 100px; height: 25px; border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;" type="text"/> <input type="checkbox"/> Do you have audio book???
<input type="radio"/> Free <input type="radio"/> Paid <input type="radio"/>	
<input style="width: 100px; height: 30px; background-color: #2e71a1; color: white; border: none; border-radius: 5px; font-weight: bold; margin-top: 10px;" type="button" value="ADD"/>	

View books: Admin can view books here and can edit them or delete them.

Book ID	Book Name	Book Author	ISBN Number	Cover Photo	Book Category	Book Description	Book Path	Audio Book	price	
69	The Jungle Book	Rudyard Kipling	2248		Fantasy	The Jungle Book (1894) is a collection of stories by the English author Rudyard Kipling. Most of the characters are animals such as Shere Khan the tiger and Baloo the bear, though a principal character is the boy or "man-cub" Mowgli, who is raised in the jungle by wolves. The stories are set in a forest in India; one place mentioned repeatedly is "Seonee" (Seoni), in the central state of Madhya Pradesh.	myuploads/the-jungle-book.epub	n/a	250	Edit Add Gallery Delete
70	Gulliver's Travels	Jonathan Swift	2249		Fantasy	Gulliver's Travels, or Travels into Several Remote Nations of the World. In Four Parts. By Lemuel Gulliver; First a Surgeon, and then a Captain of Several Ships (which is the full title), is a prose satire by Irish writer and clergyman Jonathan Swift, that is both a satire on human nature and the travellers' tales literary subgenre. It is Swift's best known full-length work, and a classic of English literature. He himself claimed that he wrote Gulliver's Travel over the world rather than divert it.	myuploads/gullivers-travels.epub	n/a	250	Edit Add Gallery Delete
75	Harry Potter And The Chamber Of Secrets	J.K. Rowling	2259		Fantasy	Shadow Souls is Harry Potter and the Chamber of Secrets is a fantasy novel written by British author J. K. Rowling and the second novel in the Harry Potter series. The plot follows Harry's second year at Hogwarts School of Witchcraft and Wizardry, during which a series of messages on the walls of the school's corridors warn that 'Chamber of Secrets' has been opened and that the 'heir of Slytherin' would kill all pupils who do not come from all-magical families. These threats are found after attacks which leave residents of the school petrified. Throughout the year, Harry and his friends Ron and Hermione investigate the attacks in the second book in The Return trilogy and the sixth book in the The Vampire Diaries novel series. It was published in 2010.	myuploads/Harry Potter and the Chamber of Secrets.epub	n/a	200	Edit Add Gallery Delete
84	The Lord of the Rings	J. R. R. Tolkien.	3737		Fantasy	The Lord of the Rings is an epic high fantasy novel written by English author and scholar J. R. R. Tolkien. The story began as a sequel to Tolkien's 1937 fantasy novel The Hobbit, but eventually developed into a much larger work. Written in stages between 1937 and 1949, The Lord of the Rings is one of the best-selling novels ever written, with over 150 million copies sold.	myuploads/-epub	n/a	245	Edit Add Gallery Delete
85	The Lion, the Witch and the Wardrobe	C. S. Lewis,	3738		Fantasy	The Lion, the Witch and the Wardrobe is a fantasy novel for children by C. S. Lewis, published by Geoffrey Bles in 1950. It is the first published and best known of seven novels in The Chronicles of Narnia. Among all the author's books, it is also the most widely held in libraries. Although it was originally the first of The Chronicles of Narnia, it is volume two in recent editions that are sequenced by the stories' chronology. Like the other Chronicles, it was illustrated by Pauline Baynes, and her artwork has been reproduced in numerous editions.	myuploads/LionWitchWardrobe_CSL.epub	n/a	0	Edit Add Gallery

Edit book Path: Admin can edit path of book. **Edit Audio Path:** Admin can edit audio path.

Edit Book Path

Book ID:	<input type="text" value="50"/>
Book Path:	<input type="button" value="Choose File"/> No file chosen
EDIT BOOK PATH	

[Close](#)

Edit Audio Path

Book ID:	<input type="text" value="50"/>
Audio Path:	<input type="button" value="Choose File"/> No file chosen
EDIT AUDIO PATH	

[Close](#)

Edit book detail: Admin can edit details of book.

category: Autobiography ▾

Edit Books

Book ID:

Book Name:

Book Author:

isbn:

category: Autobiography ▾

Description:
Dreams from My Father: A Story of Race and Inheritance (1995) is a memoir by Barack Obama, who was elected as U.S. President in 2008. The memoir explores the events of Obama's early years in Honolulu and Chicago up until his entry into law school in 1988. Obama published the memoir in July 1995, when he was starting his political campaign for Illinois Senate. He had been elected as the first African-American president of the Harvard Law Review in 1990. According to The New York Times, Obama modeled Dreams from My Father on Ralph Ellison's novel Invisible Man.

Price:

EDIT **Close**

Edit book cover: Admin can edit cover photo of book.

category: Autobiography ▾

Edit Cover Photo

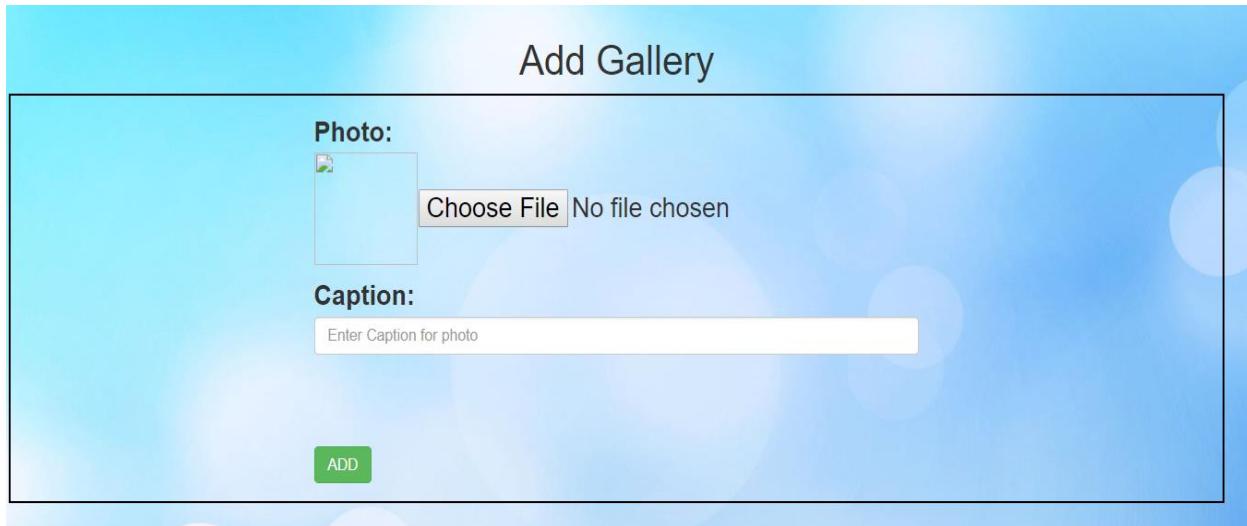
Book ID:

Cover Photo:  No file chosen

EDIT COVER PIC **Close**

This is the autobiography of Mohandas K. Gandhi, covering his life from early childhood

Add Gallery: Admin can add gallery of books so that users are able to see some pages of book before buying it.



Already added gallery: Already added gallery also appears here.

GALLERY BOOKS		
Cover Page	Chapter 1	Chapter 2
Chapter 5	Chapter 11	Chapter 17

Cover Page:

Chapter 1:

Chapter 2:

Chapter 5:

Chapter 11:

Chapter 17:

Messages: Messages can be viewed here and admin can delete them.

Messages				
Username	Email	subject	Message	Clear All
Amreen	amreen@gmail.com	problem	I am having problem in reviewing book	<button>Delete</button>
Amreen	amreen@gmail.com	Feedback	good website	<button>Delete</button>
Amaira	amaira@gmail.com	Feedback	very good website to read books	<button>Delete</button>
Amaira	amaira@gmail.com	Feedback	having fun in reading books at your website	<button>Delete</button>
Amaira	amaira@gmail.com	problem	problem in using	<button>Delete</button>
Daljit kaur	daljit@gmail.com	Feedback	Enjoying	<button>Delete</button>
Daljit kaur	daljit@gmail.com	Feedback	good website enjoying reading books	<button>Delete</button>
Lakhbir singh	lakhbir@gmail.com	Feedback	books are very good	<button>Delete</button>
Lakhbir singh	lakhbir@gmail.com	Sugession	Please add new book	<button>Delete</button>
ridhima	ridhima@gmail.com	Feedback	books are very goodadd more	<button>Delete</button>
sehaj	sehaj@gmail.com	Feedback	nice books	<button>Delete</button>
sehaj	sehaj@gmail.com	Feedback	good website	<button>Delete</button>

USER END

Index Page: This is view of index page which is opened first when user enter the website.

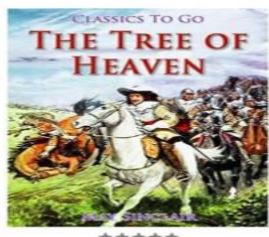
The screenshot shows the homepage of the Digibooks website. At the top, there is a navigation bar with links for 'Sign Up' and 'Login'. The main header features the 'Digibooks' logo with a stylized book icon. Below the header is a yellow 'CATEGORY MENU' sidebar containing a list of genres: Autobiography, Children, Crime, Fantasy, Horror, Mystery, Poetry, Romance, Short Story, Textbook, Thriller, and Young Adult. To the right of the sidebar is a search bar with a placeholder 'Search books here...' and a magnifying glass icon. A 'CUSTOMIZED SEARCH' button is also present. The central area of the page features a large image of a woman sitting cross-legged on the floor, surrounded by various book covers. On either side of this central image are smaller images of bookshelves. Below this section is a grid of six categories: 'Comics Books', 'Arts & Photography Book', 'Business & Money Books', 'Children's Books', 'Travel Books', and another 'Business & Money Books' category. Each category has a representative image and a title. At the bottom of the page is a section titled 'TOP INTERESTING' with a sub-instruction 'Browse the collection of our top interesting products. You will definitely find what you are looking for.' Below this are two tabs: 'NEW ARRIVAL' (underlined) and 'POPULAR'. Four book covers are displayed in a row: 'Space, Time & Gravitation' by Sir Arthur Eddington, 'The Curious Case Of Benjamin Button' by F. Scott Fitzgerald, 'O.T. A Danish Romance' by Hans Christian Andersen, and 'The Tree Of Heaven' by Charles Bukowski. Each book cover includes a star rating and a price: ₹ 200, ₹ 120, ₹ 100, and ₹ 0 respectively.

Index Page: This is new arrival and popular section of index page.

TOP INTERESTING

Browse the collection of our top interesting products.
You will definitely find what you are looking for.

[NEW ARRIVAL](#) [POPULAR](#)



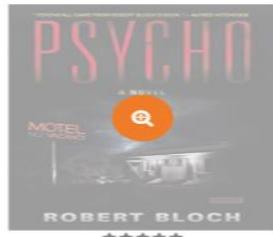
The Tree Of Heaven

₹ 0



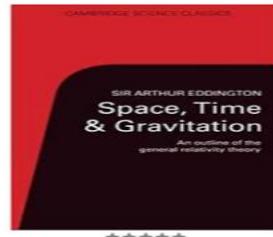
Wuthering Heights

₹ 310



Psycho

★★★★★



Space, Time And Gravitation An Outline of the General Relativity Theory

₹ 200

[Add To Library](#)



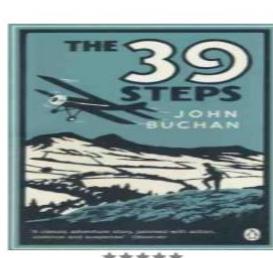
Emma

₹ 0



Lost Face

₹ 210



The Thirty-Nine Steps

₹ 0



Idgah

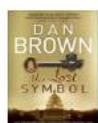
₹ 0

Index Page: This is book, audio book and reader's favorite section of index page.

BOOK

AUDIO BOOKS

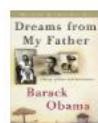
READERS FAVORITE



★★★★★

The Lost Symbol

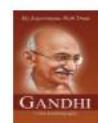
₹ 150



★★★★★

Dreams From My Father

₹ 450



★★★★★

The Story Of My Experiments With Truth

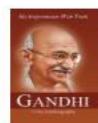
₹ 200



★★★★★

Shadow Souls

₹ 0



★★★★★

The Story Of My Experiments With Truth

₹ 200



★★★★★

The Moonstone

₹ 100



★★★★★

Thirteen Reasons Why

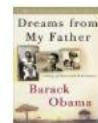
₹ 300



★★★★★

The Girl With The Dragon Tattoo

₹ 300



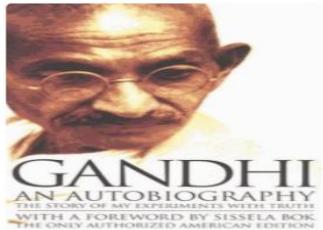
★★★★★

Dreams From My Father

₹ 450

Index Page:This is categories section and footer of index page.

CATEGORIES



Autobiography

An Autobiography gives the history of a person's life, written or told by that person.



Children

Children's Book is material written or produced for the information or entertainment of children or young adults.



Crime

Crime is how the criminal gets caught and serve time, and the repercussions of the crime.

STORE INFORMATION

My Company
Amritsar, India
Call us now: (+91)9878229327
Email: komalpreet234@gmail.com

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VISA | PAYPAL | MASTERCARD | 2CO | MASTERCARD | CIRCUIT

Categories Page:This page display all the categories on click of category all the books of that category are opened

Sign Up | Login

[Home](#) [Categories](#) [Books](#) [Audio Books](#) [Readers Favorite](#) [Contact Us](#)

[CATEGORY MENU](#) [≡](#) [--Search By--](#) [Search books here...](#) [CUSTOMIZED SEARCH](#)

Home | Categories

CATEGORIES

The image shows the front cover of the book "GANDHI: AN AUTOBIOGRAPHY - THE STORY OF MY EXPERIMENTS WITH TRUTH". It features a portrait of Mahatma Gandhi wearing glasses and a white robe.

Autobiography

An Autobiography gives the history of a person's life, written or told by that person.

A collection of colorful children's books is displayed, including titles like "HURRAH FOR 6 & 7'S", "MAGICKY AMERICA", and "CHINNEY CHINNIE".

Children

Children's Book is material written or produced for the information or entertainment of children or young adults.

Two hands, belonging to a person of color, are raised in a fist, each secured with a silver metal handcuff.

Crime

Crime is how the criminal gets caught and serve time, and the repercussions of the crime.



Fantasy

A Book under this genre contains a story set in a fantasy world, a world that is not real and often includes magic, magical creatures, and supernatural events.



Horror

Horror is a genre that is intended to or has the ability to create the feeling of fear, repulsion, fright or terror in the readers.



Mystery

Mystery books have a suspenseful plot that often involves a mysterious crime. Suspects and motives are considered and clues throughout the story lead to a solution to the problem.



Poetry

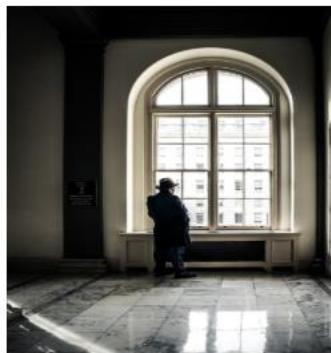
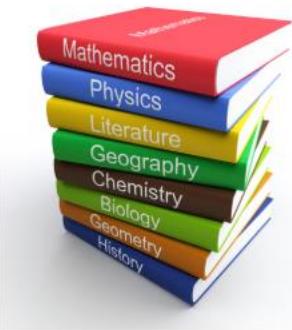
Poetry is one of the most important genres of books in which the expression of feelings and ideas is given intensity by the use of distinctive style and rhythm.

Romance

The primary focus of romance fiction is on the relationship and romantic love between two people.

Short Story

A short story is a short prose fiction that typically can be read in one sitting.



Textbook

A textbook is a manual of instruction in any branch of study. It contains an authoritative and detailed factual description of a topic.

Thriller

This genre of book is characterized and defined by the moods they evoke among the readers, giving them heightened feelings of suspense, excitement, thrill, surprise, anticipation, and anxiety.

Young Adult

A term used to refer to the books published for young people between the ages of twelve and seventeen.

STORE INFORMATION

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Amritsar, India

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Email: komalpreet234@gmail.com

Sub Category: This is sub-category page on click of sub-category books of that specific sub-category opens.

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Categories
Books
Audio Books
Readers Favorite
Contact Us

CATEGORY MENU
--Search By--
Search books here...
Q
CUSTOMIZED SEARCH

[Home](#) | [Sub-Categories](#)

SUB-CATEGORIES OF TEXTBOOK



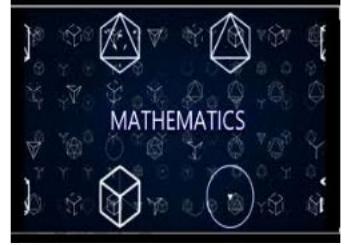
Chemistry

Chemistry is the scientific discipline involved with elements and compounds composed of atoms, molecules and ions: their composition, structure, properties, behavior and the changes they undergo



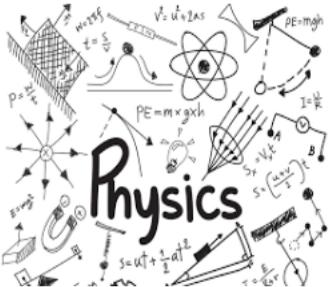
Computer science

Computer science is the study of processes that interact with data and that can be represented as data in the form of programs. It enables the use of algorithms to manipulate, store, and communicate



Mathematics

Mathematics includes the study of such topics as quantity, structure, space, and change. Mathematicians seek and use patterns to formulate new conjectures; they resolve the truth or falsity of conjectures by



Physics

Physics is one of the most fundamental scientific disciplines, and its main goal is to understand how the universe behaves. Physics is one of the oldest academic disciplines and, through its inclusion of astronomy,

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46

Book detail: This is book detail page which has all information of the book. User can add book to library or favorites from here.

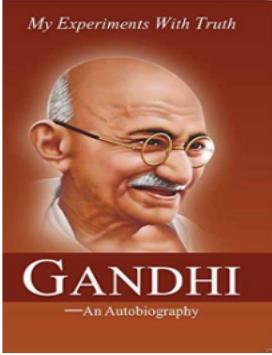
Welcome Amreen



- [Home](#)
- [Categories](#)
- [Books](#)
- [Audio Books](#)
- [Readers Favorite](#)
- [Contact Us](#)

CATEGORY MENU
≡
—Search By—
Search books here...
🔍
CUSTOMIZED SEARCH 🔎

[Home](#) | [Book-details](#)



The Story Of My Experiments With Truth

By: Mohandas K. Gandhi

★★★★★ 3 Reviews | [Add Your Review](#)

ISBN:1124
Category:Autobiography
₹ 200

[ADD TO LIBRARY](#)

[Heart Add To Favorite](#)

RELATED BOOKS



Dreams From My Father
Barack Obama
₹ 450

★★★★★

The Diary Of A Young Girl
Anne Frank
₹ 0



The Story Of My Experiments With Truth
Mohandas K. Gandhi
₹ 200

DETAILS
REVIEWS

The Story of My Experiments with Truth is the autobiography of Mohandas K. Gandhi, covering his life from early childhood through to 1921. It was written in weekly installments and published in his journal Navjivan from 1925 to 1929. Its English translation also appeared in installments in his other journal Young India. It was initiated at the insistence of Swami Anand and other close co-workers of Gandhi, who encouraged him to explain the background of his public campaigns.

GALLERY



Birth And Parentage



Childhood



Child Marriage



ATragedy

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47

Book-Detail: This is customer reviews section from book detail page

User Profile	Name	Rating	Date & Time	Review Content
	sehaj	★★★★★	2019-05-01 22:14:26	good
	Amreen	★★★★★	2019-05-01 22:16:13	very good book
	Amaira	★★★★★	2019-05-01 22:17:33	very good book

Audio Book Page: This is audio book page all audio books are displayed here. User can view detail of book by clicking on book or can add to library.

Book Title	Author	Rating	Price
Dreams from My Father	Barack Obama	★★★★★	₹ 450
My Experiments With Truth	GANDHI	★★★★★	₹ 200
The Girl With The Dragon Tattoo	STIEG LARSSON	★★★★★	₹ 300
The Moonstone	Wilkie Collins	★★★★★	₹ 100
O. T.	Hans Christian Andersen	★★★★★	

Search :This is search here user can search by book name or book Author.

Search by Name:

The screenshot shows the Digibooks website interface. At the top, there is a navigation bar with links for Home, Categories, Books, Audio Books, Readers Favorite, and Contact Us. On the far right of the header, there are 'Sign Up' and 'Login' buttons. Below the header is the main content area. On the left, there is a sidebar titled 'CATEGORY MENU' containing a list of book genres: Autobiography, Children, Crime, Fantasy, Horror, Mystery, Poetry, Romance, Short Story, Textbook, Thriller, and Young Adult. The main search area has a dropdown menu set to 'Book Name' and a search input field containing 'ar'. To the right of the input field is a magnifying glass icon and a 'CUSTOMIZED SEARCH' button. The results list shows several book titles starting with 'ar': The Life And Adventures Of Nicholas Nickleby, Forgotten & Remembered: The Duke's Late Wife, Dreams From My Father, The Diary Of A Young Girl, Mein Kampf, Long Walk To Freedom, Dracula, The Ghost Pirates, Shadow Child, The Canterville Ghost, The King Of Custard Castle, The Pirate's Parrot, Pride And Prejudice, and Romeo And Juliet. To the right of the results list, there is a grid of book covers.

Search by author

The screenshot shows the Digibooks website interface, similar to the previous one but with a different search term. The navigation bar, sidebar, and main search area are identical. The results list shows several book authors starting with 'ar': Charles Dickens, Barack Obama, Oscar Wilde, William Shakespeare, Rudyard Kipling, Charlotte Bronte, Stieg Larsson, Arthur Conan Doyle, Arthur Conan Doyle, Lewis Carroll, Shiv Kumar Batalvi, Edgar Allan Poe, Mary Kubica, and Charles Dickens. The layout and design are consistent with the first screenshot, featuring a yellow header bar and a grid of book covers on the right side.

Signup(invalid phone number check):if phone number is invalid user is informed.

Sign Up

User Name*

Password*

Confirm password

Email Address*

Phone*

Security Question*

Security Answer*

Gender*

Cover Photo:
 Rabia Di 201...._153157.jpg

Invalid Phone Number!!!

SIGNUP

Signup: This is signup Form.User can signup by filling credentials

[Home](#) | [Sign Up](#)

Sign Up

User Name*

Password*

Confirm password

Email Address*

Phone*

Security Question*

Security Answer*

Gender*

Cover Photo:
 Rabia Di 201...._153157.jpg

SIGNUP

Package selection : User needs to select a package to read books.

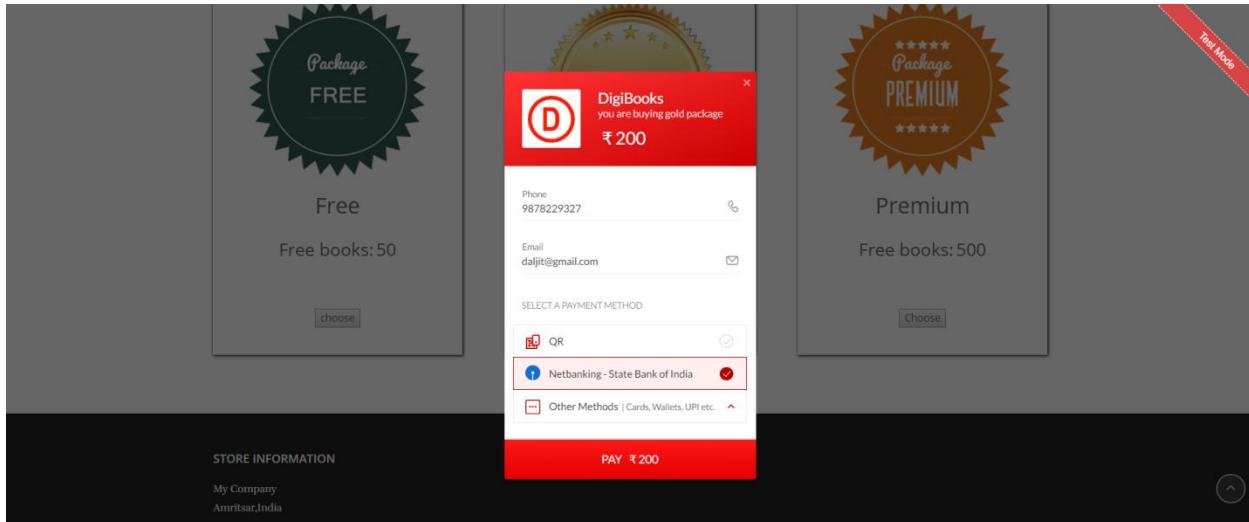
The screenshot shows the DigiBooks website interface. At the top, there is a dark header bar with 'Sign Up' and 'Login' links. Below it is a navigation bar with the DigiBooks logo, 'Home', 'Categories', 'Books', 'Audio Books', 'Readers Favorite', and 'Contact Us'. A yellow banner below the navigation bar includes 'CATEGORY MENU', a search bar with 'Search By...', a search input field, and a 'CUSTOMIZED SEARCH' button. Below the banner, there is a link 'Home | Login'. The main content area has a title 'Select Your Package' and three package options:

- Free**: Represented by a green seal. It says 'Free' and 'Free books: 50'. There is a 'choose' button.
- Gold**: Represented by a gold seal. It says 'Gold' and 'Free books: 300'. There is a 'Choose' button.
- Premium**: Represented by a brown seal. It says 'Premium' and 'Free books: 500'. There is a 'Choose' button.

At the bottom of the page, there is a 'STORE INFORMATION' section with details about the company, contact information, and payment method icons (VISA, PayPal, MasterCard, ZCO, etc.).

Payment on selection of gold package

This screenshot shows the payment process for selecting the Gold package. A modal window is open over the package selection interface. The modal has a red header with the DigiBooks logo and the text 'you are buying gold package ₹ 200'. It contains fields for 'Phone' and 'Email' (with the value 'email@gmail.com'). Below these fields, there is a note 'Enter Phone number to pay using' followed by payment method options: 'Card', 'Netbanking', and 'Wallet and more'. In the top right corner of the modal, there is a small 'Test Mode' indicator. The background of the modal shows the three package options: Free, Gold, and Premium.



Welcome to Razorpay Bank

This is just a demo bank page.

You can choose whether to make this payment successful or not:

[Success](#)

[Failure](#)

Login: This is login form user can login to his/her account

[Sign Up](#) | [Login](#)



[Home](#) [Categories](#) [Books](#) [Audio Books](#) [Readers Favorite](#) [Contact Us](#)

[CATEGORY MENU](#)
--Search By--
Search books here...
CUSTOMIZED SEARCH

[Home](#) | [Login](#)

Login

User Name*

Password*

[Lost your password? Click Here](#)

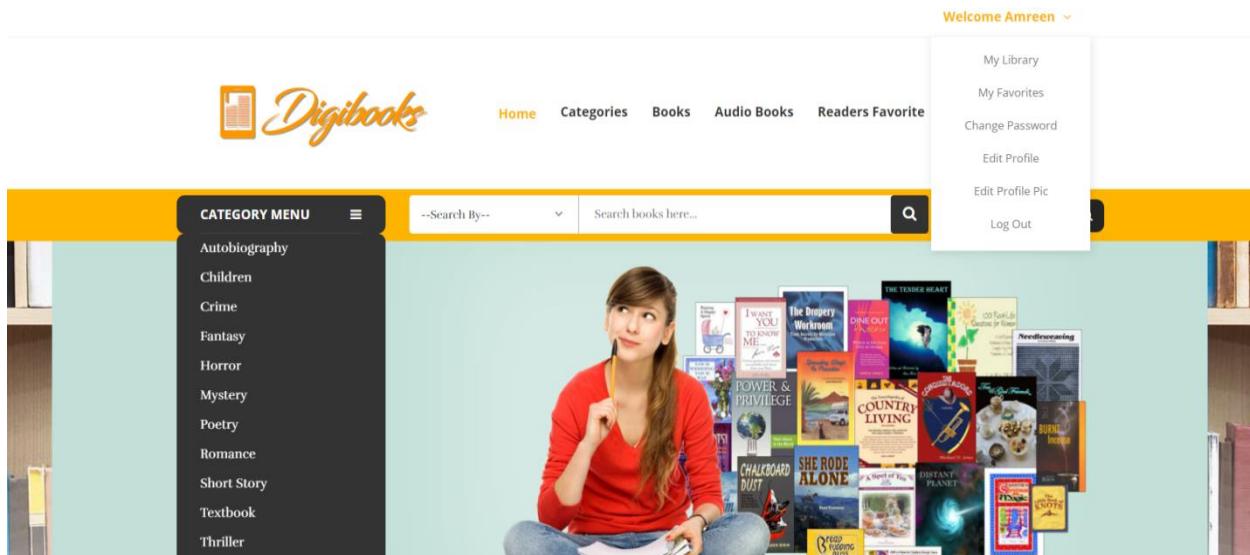
Lost Password: User can recover password by answering security question filled at time of signup.

The screenshot shows the Digibooks website interface. At the top, there is a navigation bar with links for Home, Categories, Books, Audio Books, Readers Favorite, and Contact Us. On the far right of the top bar are 'Sign Up' and 'Login' buttons. Below the top bar is a secondary navigation bar with a 'CATEGORY MENU' button, a search dropdown labeled '--Search By--', a search input field 'Search books here...', a magnifying glass icon, and a 'CUSTOMIZED SEARCH' button. Underneath these bars, the main content area has a breadcrumb navigation with 'Home | Forgot Password'. The main title 'Forgot Password' is centered above a form. The form contains a 'User Name*' field with 'Daljit kaur' typed in, a green 'Submit' button, and a question 'What is your pet name?'. Below this question is a 'Security Answer' field containing 'puppy', another green 'Submit' button, and an 'OK' button for a modal dialog.

Message sent to mobile in case of lost password: User receives message of password.

This screenshot shows the same Digibooks website as the previous one, but with a modal dialog box overlaid. The dialog box has a header 'localhost:8080 says' and the message 'message sent to your mobile'. It features a blue 'OK' button. The rest of the page below the dialog is identical to the first screenshot, showing the 'Forgot Password' form and its fields.

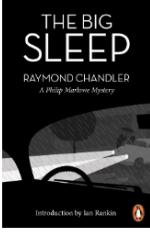
Options available to user: These are the options available to user. User can choose any option



My library: User can make his library by adding books to library each time user add book to library book is deducted from total number of books available to user according to package he has chosen.

A screenshot of the Digibooks website showing the "MY LIBRARY" section. The top navigation bar includes "Home", "Categories", "Books", "Audio Books", "Readers Favorite", and "Contact Us". Below the navigation is a secondary header with "CATEGORY MENU", a search bar, and a "CUSTOMIZED SEARCH" button. The main content area is titled "MY LIBRARY" in orange. It displays a book cover for "The Moonstone" by Wilkie Collins, with ISBN 9998 and the category "Crime". To the right of the book details are three blue buttons: "View Details", "Read Book", and "Download Audio Book".

My library continued..



The Big Sleep

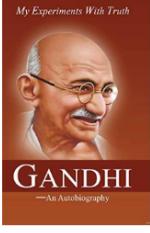
By: Raymond Chandler

ISBN:3301

Category:Crime

[View Details](#)

[Read Book](#)



The Story of My Experiments with Truth

By: Mohandas K. Gandhi

ISBN:1124

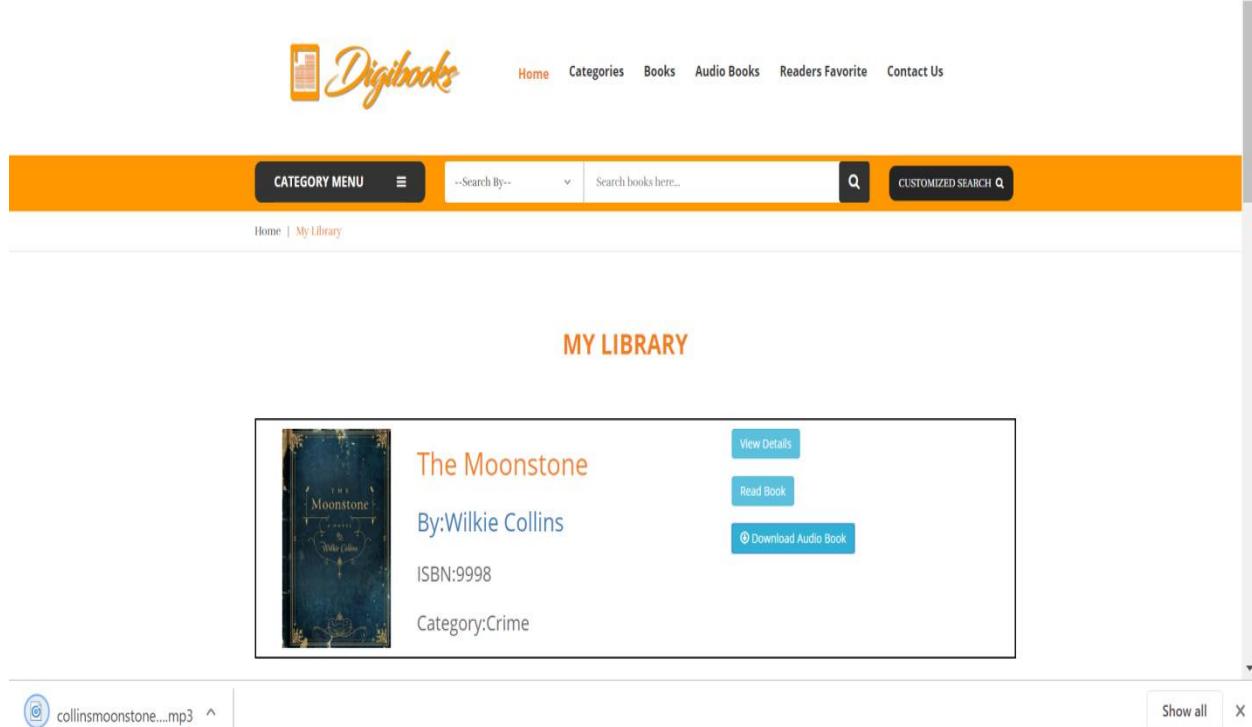
Category:Autobiography

[View Details](#)

[Read Book](#)

[Download Audio Book](#)

Download audio book: User can download audio book.



Digibooks

Home Categories Books Audio Books Readers Favorite Contact Us

CATEGORY MENU ▾

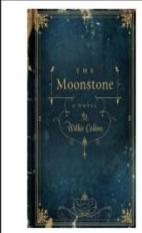
--Search By-- ▾

Search books here...

Q CUSTOMIZED SEARCH Q

Home | My Library

MY LIBRARY



The Moonstone

By:Wilkie Collins

ISBN:9998

Category:Crime

[View Details](#)

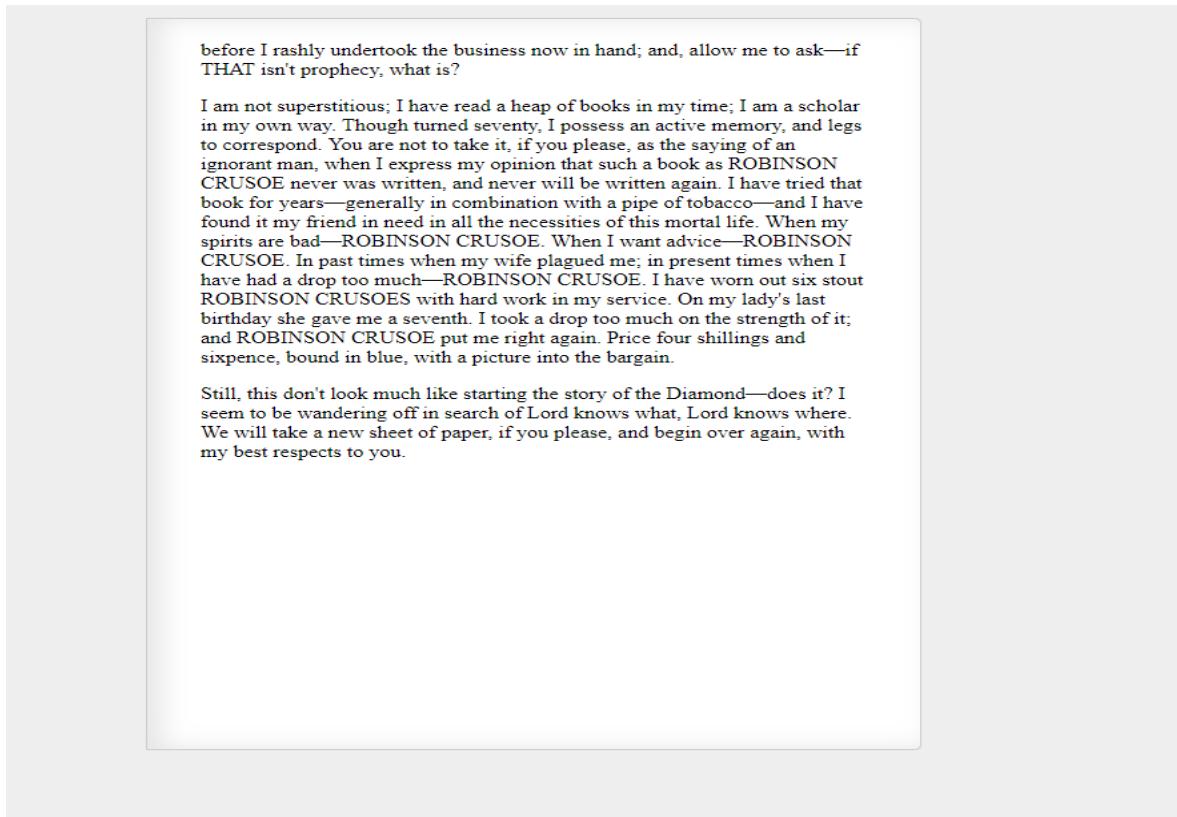
[Read Book](#)

[Download Audio Book](#)

collinsmoonstone....mp3 ^

Show all X

Read book: User can read book online.

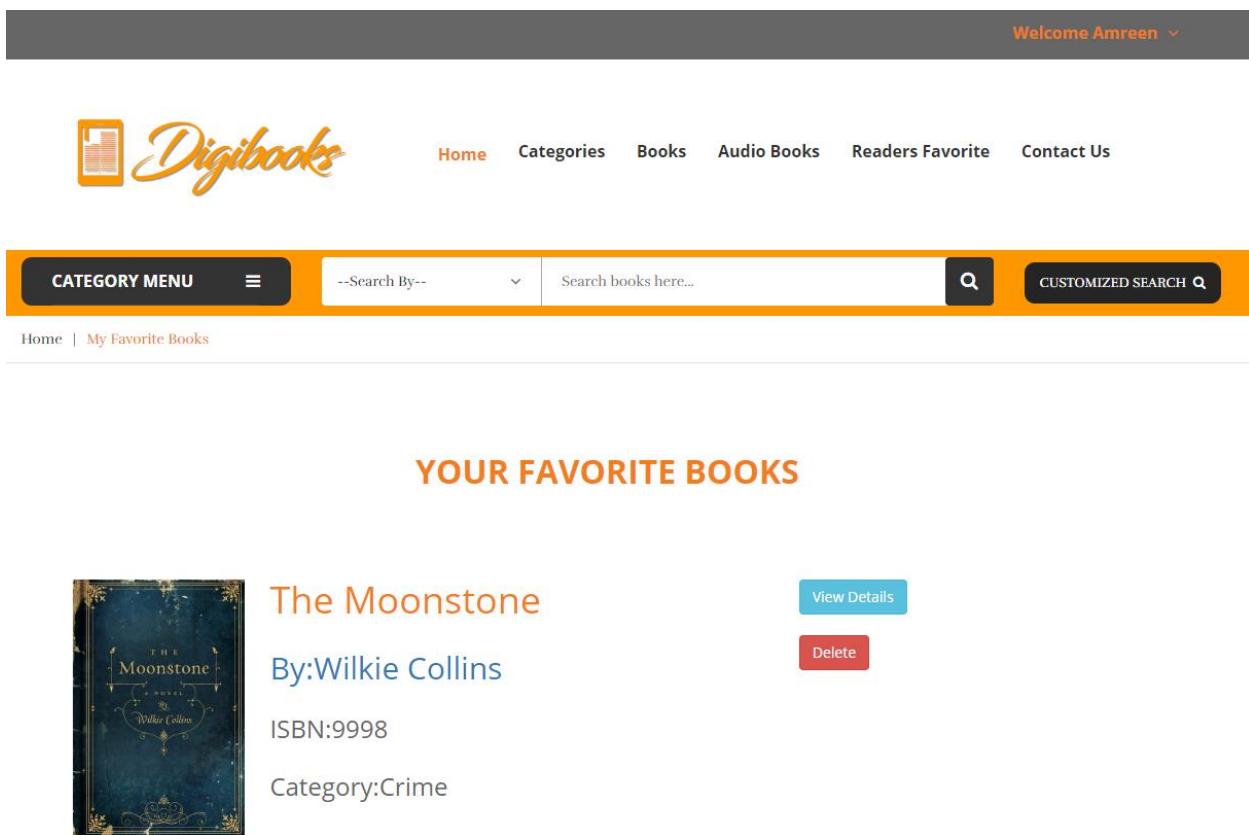


before I rashly undertook the business now in hand; and, allow me to ask—if THAT isn't prophecy, what is?

I am not superstitious; I have read a heap of books in my time; I am a scholar in my own way. Though turned seventy, I possess an active memory, and legs to correspond. You are not to take it, if you please, as the saying of an ignorant man, when I express my opinion that such a book as ROBINSON CRUSOE never was written, and never will be written again. I have tried that book for years—generally in combination with a pipe of tobacco—and I have found it my friend in need in all the necessities of this mortal life. When my spirits are bad—ROBINSON CRUSOE. When I want advice—ROBINSON CRUSOE. In past times when my wife plagued me; in present times when I have had a drop too much—ROBINSON CRUSOE. I have worn out six stout ROBINSON CRUSOES with hard work in my service. On my lady's last birthday she gave me a seventh. I took a drop too much on the strength of it; and ROBINSON CRUSOE put me right again. Price four shillings and sixpence, bound in blue, with a picture into the bargain.

Still, this don't look much like starting the story of the Diamond—does it? I seem to be wandering off in search of Lord knows what, Lord knows where. We will take a new sheet of paper, if you please, and begin over again, with my best respects to you.

My Favorites: User can add books to favorite which he/she likes.



Welcome Amreen ▾

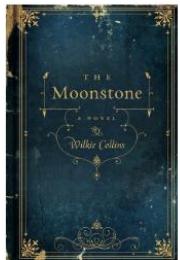
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Home Categories Books Audio Books Readers Favorite Contact Us

CATEGORY MENU ≡ --Search By-- ▼ Search books here... 🔍 CUSTOMIZED SEARCH 🔍

Home | My Favorite Books

YOUR FAVORITE BOOKS

 The Moonstone
By:Wilkie Collins
ISBN:9998
Category:Crime

View Details Delete

Customized search: User can search books according to rating or price.

(With price)

Welcome Amreen

Digibooks

[Home](#) [Categories](#) [Books](#) [Audio Books](#) [Readers Favorite](#) [Contact Us](#)

CATEGORY MENU --Search By-- CUSTOMIZED SEARCH

[Home](#) | [Customized Search](#)

SEARCH BY

PRICE

- Free
- Rs.0-Rs.100
- Rs.100-Rs.200
- Rs.200-Rs.300
- Rs.300-Rs.400

RATING

Long Walk to Freedom

By:Nelson Mandela

ISBN:1127

Category:Autobiography

[View Details](#)

The Ghost Pirates

By: William Hope Hodgson

ISBN:2235

Category:Horror

[View Details](#)

Pride and Prejudice

By:Jane Austen

ISBN:2246

Category:Romance

[View Details](#)

The Girl on the Train

By:Paula Hawkins.

ISBN:9987

Category:Thriller

[View Details](#)

Wuthering Heights

By:Emily Brontë'

ISBN:9543

Category:Romance

[View Details](#)

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57

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Home | Customized Search

SEARCH BY

PRICE

- Free
- Rs.0-Rs.100
- Rs.100-Rs.200
- Rs.200-Rs.300
- Rs.300-Rs.400

RATING

- ★
- ★★
- ★★★
- ★★★★
- ★★★★★



The Spookshow
By:Tim McGregor
ISBN:3749
Category:Thriller



Just Sixteen
By:Susan Coolidge
ISBN:9546
Category:Young Adult

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Home | Customized Search

SEARCH BY

PRICE

- Free
- Rs.0-Rs.100
- Rs.100-Rs.200
- Rs.200-Rs.300
- Rs.300-Rs.400

RATING

- ★
- ★★
- ★★★
- ★★★★
- ★★★★★



Jane Eyre
By:Charlotte Bronte
ISBN:2251
Category:Mystery



Murder in Cherry Hills
By:Paige Sleuth
ISBN:3746
Category:Mystery

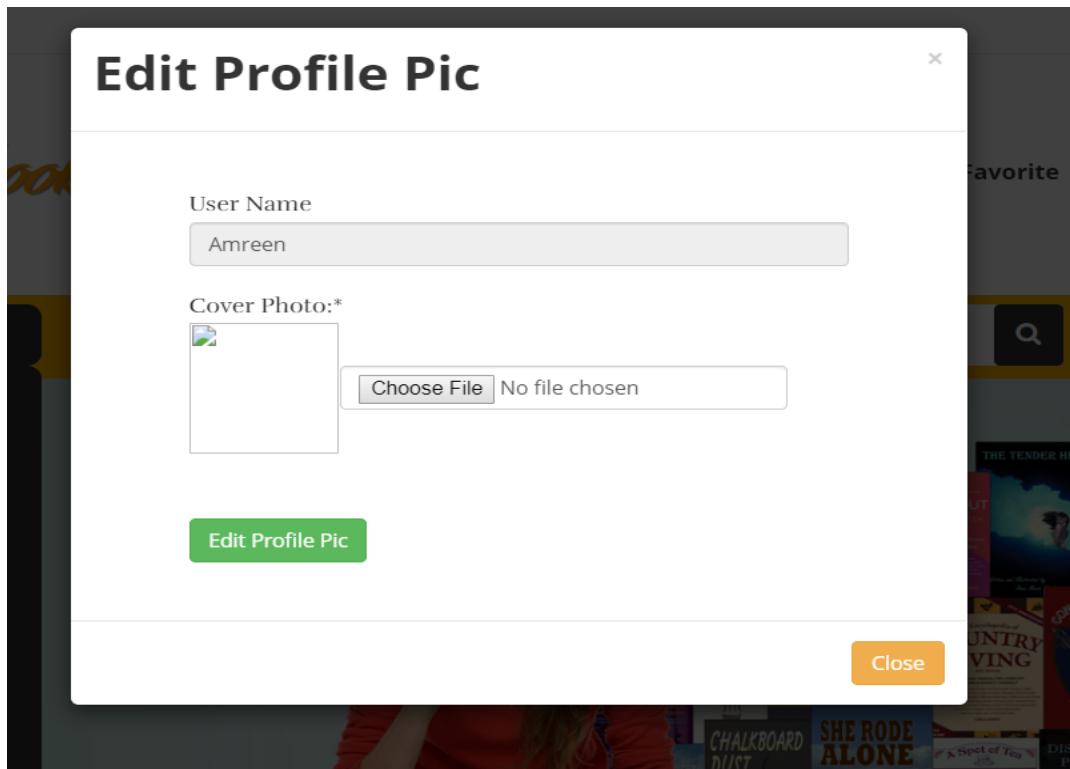
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Email: komalpreet234@gmail.com

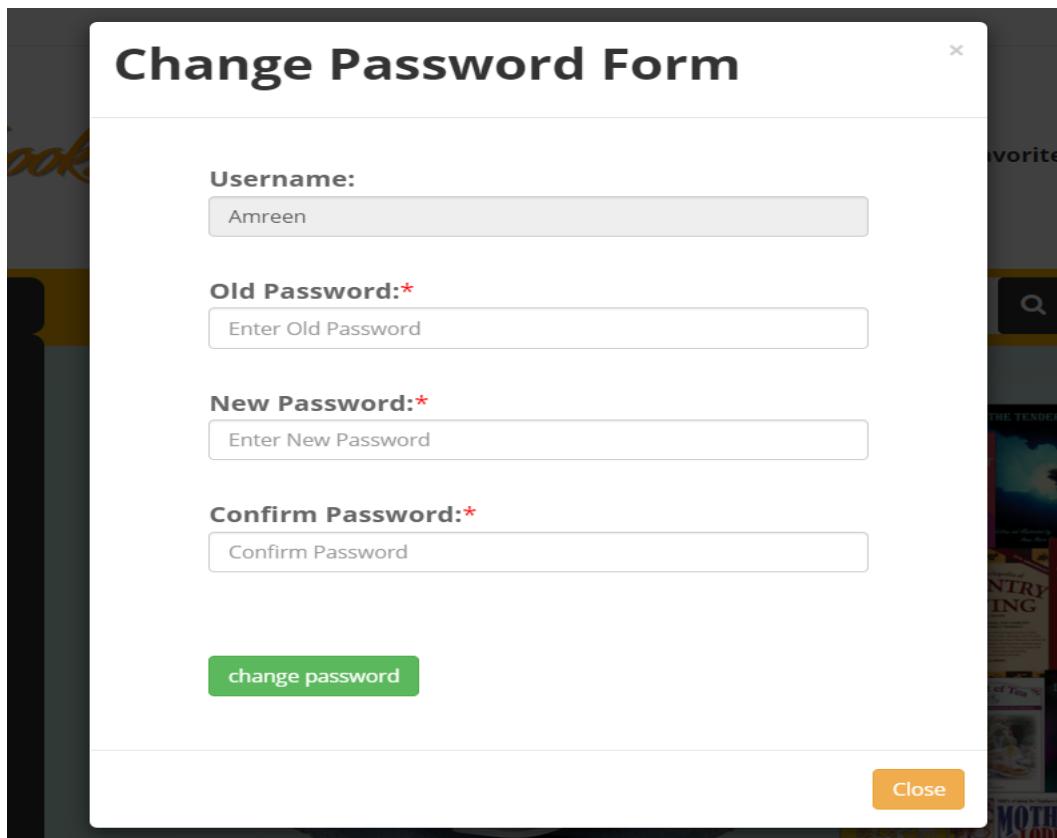
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VISA PayPal MasterCard 2CO iDEAL Bancontact

Edit profile picture: User can edit his profile picture.



Change Password: User can change his password.



Old password does not match constraint: user is informed if old password does not match.

Change Password Form

Username: Amreen

Old Password:*

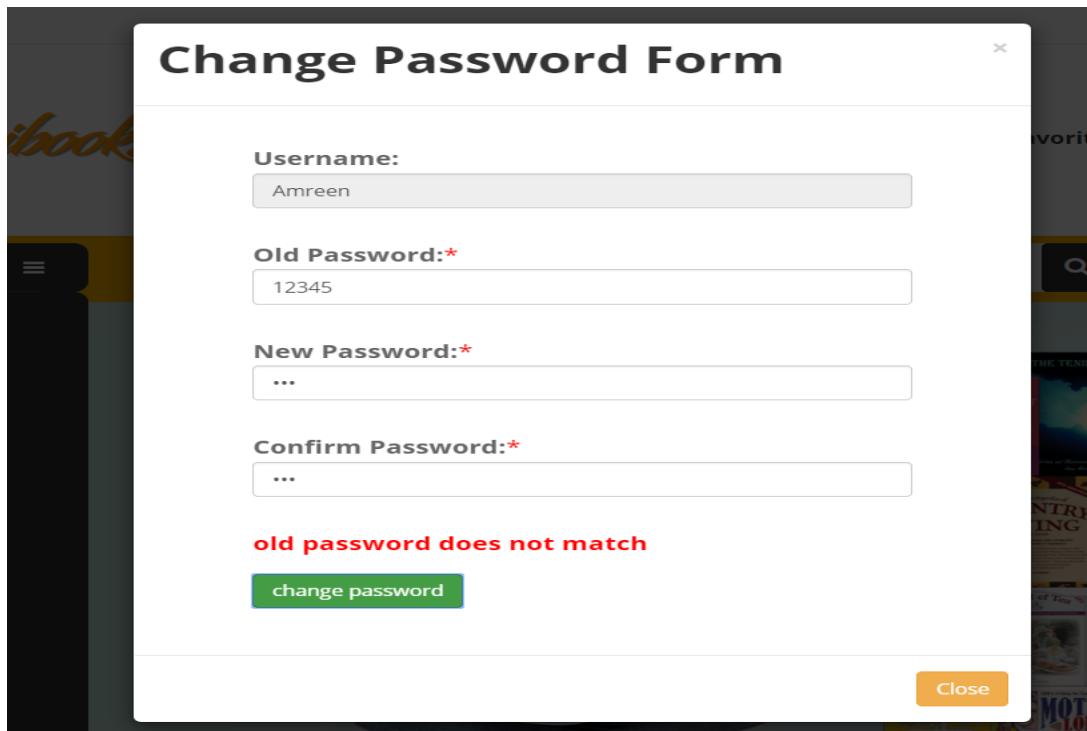
New Password:*

Confirm Password:*

old password does not match

change password

Close



New and confirm password does not match: User is informed if new password does not match with confirm password.

Change Password Form

Username: Amreen

Old Password:*

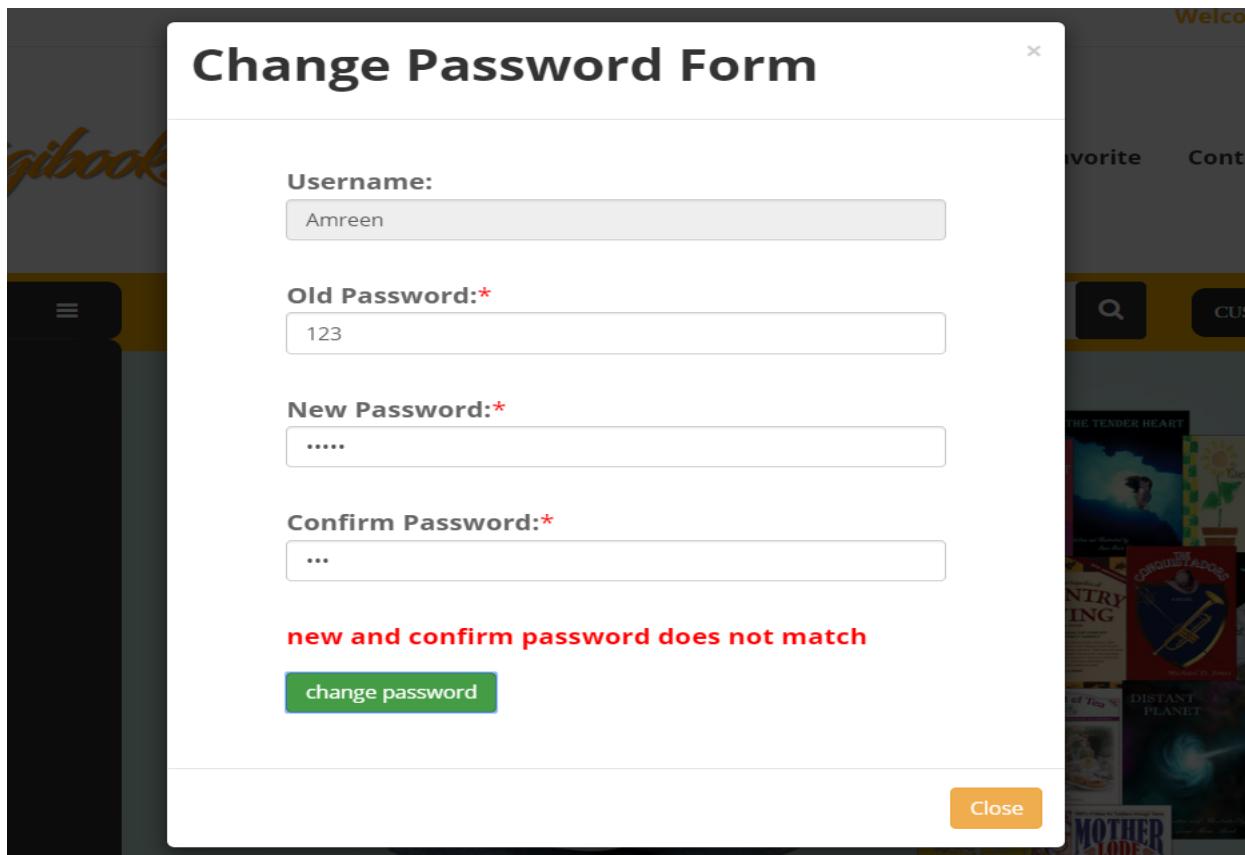
New Password:*

Confirm Password:*

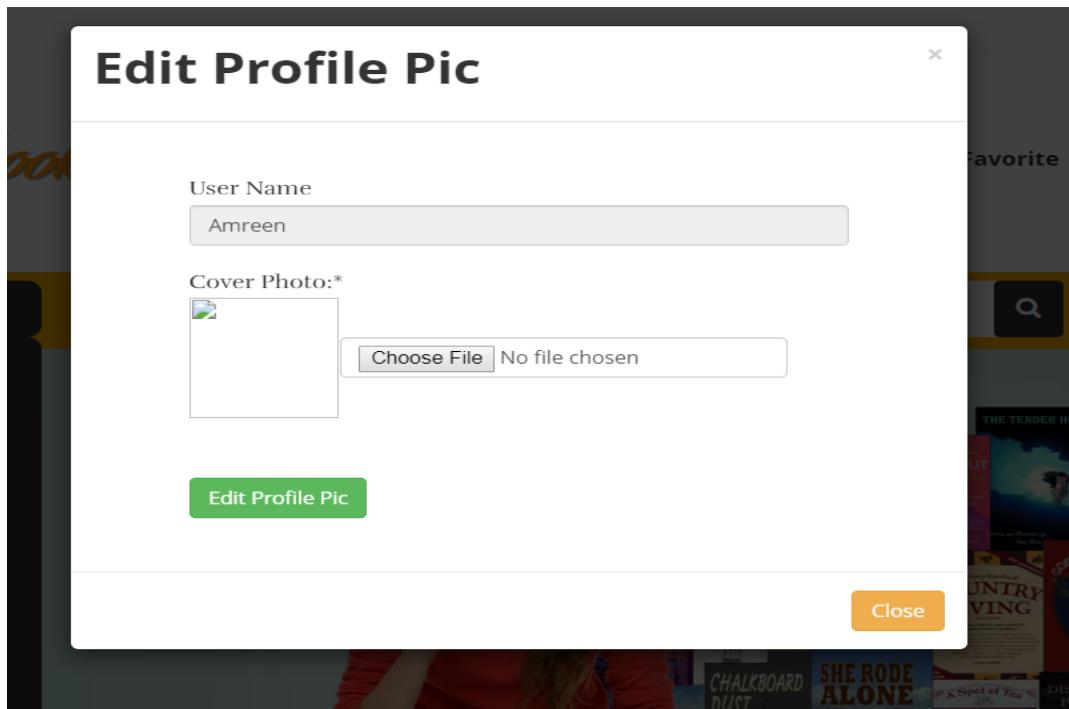
new and confirm password does not match

change password

Close



Edit profile pic: User can edit his profile picture.



Edit profile: User can edit his profile details.

Edit Profile

User Name*

Email Address*

Phone*

Security Question*

Security Answer*

Gender*

Edit

DATADICTONARY

Admin table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 username	VARCHAR(45)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
diamond password	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
diamond email	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
diamond phoneNumber	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						

Books table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 bookid	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
diamond bookName	VARCHAR(100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond bookAuthor	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond isbn	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond publisher	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond coverphoto	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond bcategory	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond subcatname	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond bookdescription	VARCHAR(1000)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond bookpath	VARCHAR(65)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond audiopath	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond price	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Book Gallery table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 bgid	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
diamond caption	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond bookid	INT(11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond photo	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Category Table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 categoryName	VARCHAR(45)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
diamond description	VARCHAR(1000)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond photo	VARCHAR(100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Sub-category table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 subcatname	VARCHAR(45)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
diamond categoryName	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond description	VARCHAR(1000)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
diamond photo	VARCHAR(100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Favorite Table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 fid	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
◊ username	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ bookid	INT(11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Library Table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 idlibrary	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
◊ bookid	INT(11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ username	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ lastpage	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	'0'				

Message Table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 msgid	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
◊ name	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ message	VARCHAR(2000)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ email	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ subject	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Reviews Table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 idreviews	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
◊ comment	VARCHAR(1000)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ rating	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ ratedby	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ bookid	INT(11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ date	TIMESTAMP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CURRENT_TIMESTAMP				

User Signup Table

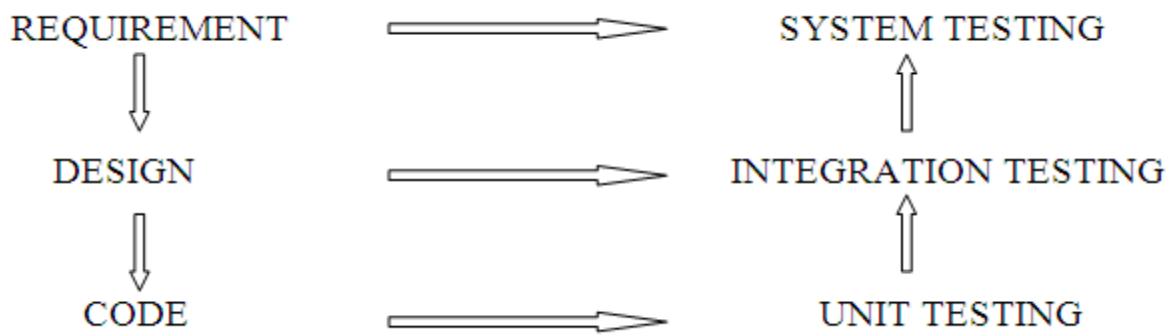
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
💡 username	VARCHAR(45)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
◊ password	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ email	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ phone	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ securityquestion	VARCHAR(100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ securityanswer	VARCHAR(100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ gender	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ photo	VARCHAR(100)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ package	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ totalBooks	INT(11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
◊ Status	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

TESTING

Testing is the major quality control measure employed during software development. **Testing** is the process of executing the program with the intent of finding an error. No piece of code is completely ready unless it has been fully tested. This stage is very important. At this stage it is verified whether the code developed meet the requirement specification or not. However, all validation is also checked in the testing stage.

Our project includes the following types of testing:

- ❖ Unit testing.
- ❖ Integration testing.
- ❖ System testing.



UNIT TESTING

The Unit testing is the first level of testing in our project. In this testing, we have tested the different modules against the specification produced for the modules. Unit testing is essential for the verification of the code produced during the coding phase and hence the goal is the internal logic of the modules.

INTEGRATION TESTING

In this, many tested modules are combined into subsystem, which are then tested. The goal here is to see if the modules can be integrated properly, the emphasis be considered as testing the design, and hence the emphasis on testing module interaction.

SYSTEM TESTING

Here the entire software system is tested. The reference document for this process is requirement document, and the goal is to see if the software meets its requirements. This is essentially a validation exercise.

VERIFICATION AND VALIDATION

Verification is the process of evaluating software to determine whether the products of a given development phase satisfy the conditions imposed at the start of that phase.

“Are we building the product right?”

Validation is the process of evaluating software during or at the end of development process to determine whether it satisfies specified condition.

“Are we building the right product?”

Verification and validation checks of my project

- **No field can be empty:** With this check, no field is to be entered blank or empty. If user will do this then the message will be displayed that this field is compulsory.
- **Phone number should have 10 digits:** According to this feature the user has to type correct phone number with 10 digits.
- **New And Confirm pPassword should match:** According to this feature new password and confirm password should match.

IMPLEMENTATION

A crucial phase in **SYSTEM DEVELOPMENT LIFE CYCLE** is the successful implementation of a new system design. **Implementation** simply means converting a new system design into operation.

The **Implementation process** for newly designed information systems, involves a variety of acquisition, testing, documentation, installation and conversion activities. It also involves the training of end users in the operation and use of the new information system. Thus, implementation is a vital step in ensuring the success of new systems. Even a well designed system can fail if it is not properly implemented.

Top five reasons for success

- User involvement.
- Executive management support.
- Clear statement of requirements.
- Realistic expectations.
- Proper planning.

Top five reasons for failure

- Lack of user input.
- Incomplete requirements and specifications.
- Changing requirements and specifications.
- Lack of executive support.
- Technological incompetence.

FUTURE ENHANCEMENTS

- Sub Categories can be added for each category
- User can also add book if he/she have it
- Admin can reply to messages
- User can download book
- Admin can block users if their

EPILOGUE

As no system design is ever perfect as communication problem, programmer's lack of knowledge or time constraints creates error .A perfect project is that in which there is a minimum key punching .The number of errors in future in a new design depends upon several factors.

Some of responsible factors are:

- Communication between user and designer.
- The programmer's ability to generate a code that reflects exactly the system specification.
- The timer frame for the design.

In my project entitled, “Digibooks” I have tried my best to cover each aspect carefully and accurately. On further analysis, the drawbacks of the system will show themselves which will further need modifications.

BIBLIOGRAPHY

- Java Study Notes by VMM Education
- Java the complete reference by Herbert Schielert