Projects in OOP

Sr.No.	Title	Abstract
1	**Currency Converter**	We see variations with different countries using different currencies. Be aware of the current exchange prices in the market and then can convert from one currency to another. A calculator-like application, developed using Ajax, Applet, and web features of Java servlets. You also get a regular update when there's a change in the value of the country's currency and also the conversion rate.
		People use this application basically for business, shares, and finance-related areas where currency exchange and money transfer happen daily. You get a preferred choice to convert any country's currency. Just enter the amount, the currency to which you want to transform to, click enter and you get the output.
2	**Attendance Management System**	This project is a web application that manages the attendance of any student in school or college, also employees in an organization. It has an admin feature that holds the access to do any kind of changes like update, delete, and add user records to the list.
		Various users of the application where users can access are:
		• Admin • Student • Faculty
3	**HelpDesk Management System**	HelpDesk Management System built using Java, Servlet, and MySQL is a project made with the intention to help individuals raise a complaint regarding a ticket issued to them. It uses the MVC architecture design and

		Servlet can manage the request and response made. You face an issue, you raise a complaint, and a ticket ID is generated which can be used as a reference to resolve the issue. This application can be used in society, schools, organizations, and even in public places where people facing any kind of issues can register a complaint using the application. As soon you raise a complaint, a notification goes to the admin who verifies it and then reverts back to you after rectifying the issue. It includes features like Track, Issue, Ticket ID, Help Desk, Network, and Issues. It contains an admin and user module.
4	**Notes and Password Manager**	This application is similar to a To-Do List app which helps you to complete your daily tasks and keep track of ongoing tasks. It also has a password for the users to log in to keep the data secure. This application is of great help when individuals have a lot of tasks to perform where some of them have to be done on priority. This application keeps a track of your daily tasks and helps you in completing them. This can be used by individuals and even by organizations to manage daily tasks. This saves their time as it stores their data in a centralized database for each user. The steps to follow are setting up the details, authenticating it with an authorized user, and managing notes and passwords. It comes with basic functionalities such as a login page, home page, note page, and updating details on the note page.
5	**Simple Banking Application**	Simple Banking Application is a simple Java project for beginners to start their career in coding. You'll learn about Scanner class to take inputs, and the basics of strings, loops, methods, and conditional statements. Here, simple banking operations like deposit, withdrawal, checking balance, exit, etc. In this modernized world, where time is money,

		everyone has got the habit of doing their tasks online. Within a click, a task is done. You get this application to make transactions just by sitting in your comfort zone. Every operation like money transfer and balance inquiry can be done in seconds.
6	**Library Management System**	Learning Management System, this project build on Java is a great way to update the record, monitor and add books, search for the required ones, taking care of the issue date and return date. It comes with basic features like creating a new record and updating and deleting it. We rely on web-based applications for every task, be it small or big. This contains two sections – the admin and users section. The admin handles the record of the users and the user handles the entry of books being issued to him/her. Also, there can be modules that display the data of books available in the library, a search button to search for the required book, and the final payment method for the charges of the book or fine imposed.
7	**Word Counter**	A simple project for beginners is good to start. It can be built using Swing in Java. Here, the application tells you the no of words, the entered paragraph has. This Java application is best suited for counting words. Remember, our childhood days when we were asked to write an essay on a given topic where the word length should be 500 or 1000. This application comes with a feature that could help you. Along with word count, it also tells you the number of characters, words, and paragraphs it has. Also, it is completely free to use and there's no word count limit.
8	**ATM Simulation System**	ATM simulation system is a simple Java project for beginners. It is a kind of personal banking system where users can perform various transactions like withdrawals, deposits, and checking the balance of the account in just one click. It has a Graphical

		User Interface (GUI) to make the process user-friendly. The introduction of the application came up with two features which have an admin mode and the user mode. The admin mode is responsible for controlling the entire system like adding and deleting accounts and updating the records of the user. The user-mode takes care of the deposit, withdrawal, and checking of the account balance. The whole process of this system is automated, from PIN (Personal Identification Number) validation to the transaction. The card details will be secured enough by encrypting the details in the database and will only be accessible to the authorized user. The UI of the application contains a profile of the user, accounts added to it, and an option to withdraw, deposit and update details of the account.
9	**Airline Reservation System**	This Java project is built to help the customers book tickets online, check the availability of seats, get the details of the flight arrival, select the class they want to choose, and departures reserve seats for national or international flights. This web-based Java project helps you in searching from pick-up location to destination, and filters out the flight details with timing, and available seats. It consolidates data from all airlines using globally distributed systems. After entering all the required details of the customer, it asks you to choose a flight with a preferred time slot, complete the payment, and book the ticket. It provides rates in real-time to customers as well as to travel agents. It also has two sections where you get to book a national and an international flight wherein you can book a domestic or international flight as per your choice.
10	**Smart City Project**	Smart City is a web-based application built using Java. It stores details of a city and displays information about the city such as hotels, shopping marts, restaurants, tourist

	(City Guide Project)	places, transportation modes, and also some general info. This acts as a guide to the new visitors. Tourists and even general people travel from one place to another in order to explore or for employment purposes but before they explore, they want to get an insight data about the place. So, to help them with this, a simple city project can be the best guide for them. It is a web-based application written in Java which basically guides you about the place you're going to visit. You can access all the details of the city. In this application, users need to sign up by entering input details and then can access all the required details of the city. It contains various modules like admin, tourism, business, and student wherein users can switch to the module as per the requirement.
11	**Grading System in Java**	This project built using Java is an important one to grade students based on their markings. It is the best project to start for beginners and has a GUI (Graphical User Interface) design. The main aim to build this project is to help schools and universities to manage the details of the students (like name, class, total subjects, marks achieved, etc) and rank them on the basis of marks. It manages the calculation of the average marks achieved and ranks the student on the basis of marks. It stores the data of students in a MySQL database. The project is built on Java and has a fully GUI (Graphical User Interface). It has all the features like managing the records of students, integrating all records of examinations, displaying all the information, and keeping a track of it.
12	**School Management System**	The School Management System is a Java application that stores records of schools be it related to students, teachers, and staff. This application's objective is to help the school management system in managing the

		data easily. The manual system could be a complicated one when it comes to keeping the records so, there comes the role of this project. It holds personal records of students, teachers, and staff. This system contains modules for different roles be it admin, student, staff, and teacher. Here, the admin has to be responsible for maintaining the records in the database like adding users, updating the details of the user, and deleting the user's profile.
13	**Pharmacy Management System**	Pharmacy Management System is a web-based application built using Java that offers you the facility to order medicines, consult doctors and keep track of all your orders online by just signing up with a registered mail id. This application is of great help to the users who regularly goes for body check-up because this application gives you the comfort of consulting with a doctor at your comfort place. It comes with an excellent and friendly user interface comes with an automated billing system. It has an integrated chat feature where you can consult with a doctor regarding your health and it also tells you details of medicines and you can also track the status of ordered items.
14	**Supermarket Billing System**	This web-based application is a Java project that is usually built for keeping the sales recording made on a daily basis. It uses a MySQL database for recording the data of the users, products, and orders made by the user (customer). The web-based Java application is implemented to keep a record of the products, status of the products orders, and user's history. This UI is made in terms that it displays records of bills made on that particular day, items added to the new bill also have an automated system that calculates the bill with GST and other applied taxes and has a print button to print the copy statement of the bill. It has an

		admin module that is responsible for adding, updating, or deleting records of the bill. It maintains a database to store the items list, categories, and buyers list.
15	**Online Quiz Management System**	You must have definitely used this application during your school days when you were asked to attend an MCQ-based test. This Online Quiz Management System can be built using Java which contains different sections for questions, marks, and subjects. This Java-based project is online software that is a kind of an online platform for conducting mock tests and competitions. The UI is built in such a way that it displays the login button where the user has to sign in to begin the test, followed by entering the details of the test (which could be a unique key), then it displays the no of questions, time duration, and a "START" button to start the test. After completing the test, it asks you to review the answers and then submit it using the "SUBMIT" button. The admin module gives you access to the user's profile.

Contents of Project Report :

- **Abstract**
- **Introduction**
- **Detailed Description**
- **Conclusion**
- **References**
- **Appendix (If required)**

  Please don't attach the college logo on the title page.

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Remember you don't need to create any software but to write a report.