**Internet NetBanking Application**

This project involves the design and implementation of a secure and robust **Internet Net banking Application** using **Java, J2EE**, and **Oracle Database**. The system will allow customers to register, log in with authentication, view their account summaries, manage transactions, transfer funds, pay bills, manage cards, and review loan information. Admin users will be able to manage user accounts and monitor system activity. Core features include account management, transaction history, fund transfers, bill payments, card management, loan overview, and an admin dashboard. This system will be accessible via web browsers and can be deployed on Tomcat or Oracle WebLogic.

**Good to have**

The application ensures security through password encryption, SSL, input validation, and audit logging.

**Proposed Modules (Scope can be defined based on duration) :**

* User Registration and Login (with 2FA)
* Account Summary
* Transaction History
* Fund Transfers
* Bill Payments
* Card Management
* Loan Account Overview
* Admin Dashboard
* Notifications

**Proposed Technology (Update based on the skillset)**

| **Layer** | **Technology** |
| --- | --- |
| **Frontend** | JSP/Servlets, HTML5, CSS3, JavaScript (or JSF) |
| **Backend** | Java (JDK 21), J2EE (JSP, Servlets, JDBC, EJB), RESTful APIs, Spring, Spring boot. |
| **Security** | Java Authentication & Authorization Service (JAAS), SSL/TLS |
| **Database** | Oracle 19c |
| **Build Tool** | Maven |
| **App Server** | Apache Tomcat or Oracle WebLogic |
| **Logging** | Log4j |
| **Testing** | JUnit, Postman for APIs |
| **DevOps** | Jenkins, Docker (optional), GitHub |
| **Deployment** | WebLogic / Tomcat/ OCI – JCS |

**Prepare the ER Diagram for the Backend Database**

**Prepare the class, object for implementation the modules**