# Alpha Net Technologies Pvt. Ltd.

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| Document Name | Software Requirement Specification Of PL Evaluator |
|---|---|
| **Version No.** | 1.0 |

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## Overview of the Project

**PL Evaluator** is a MIS application to automate the tasks of Loan Processing Division like maintaining information of client, verifying information provided by client, checking eligibility of a client whether loan can be issued or not and finally issuing the loan.

**PL Evaluator** is basically designed & developed for those financial companies which provide different types of loans from different banks to all types of clients. To keep track of different loans, different interest rates of different banks and different types of clients, is not an easy job. To make these tasks easy with all latest updates, PL Evaluator is quiet helpful.

Its GUI based desktop application, so its very user friendly. It is designed and developed based on client server architecture. In this application, MySQL database is used to store data related to employees, loans, clients, etc.  Since database is on Server, so any number of users can work simultaneously and can share their data with each other.

It is developed using Java technologies

## *Objective*

The **objective** of the system would be:

1. Develop a algorithm to which will evaluate loan eligibility of the client on the base of input parameters.

2. Maintain the information of all employees according to their job profile.

3. Maintain the information of all types of loans.

4. Maintain the information of all clients.

5. Verify all documents provided by clients & check loan eligibility.

6. Once loan is issued to client, maintain the information related to issued loan.

## Business Functions Provided in Proposed System

1. **Login:** To access this application, users would be required to login through a login screen. After authentication user would be able to access only those areas for which permissions are given.

2. **Users Maintenance:** That allows adding or updating the details of all users who are accessing this application.

3. **Client Maintenance:** That allows adding or updating the details of all clients. Details such as personal details, professional details and financial responsibilities of clients will be maintained.

4. **Loan Plan Maintenance :** That allows adding and updating details of all loan plans.

5. **Loan Evaluator and Processor:** That provides support to process loan by evaluating the eligibility of client and generate EMI if eligible. Following processes are involved :

   1. Taking Client Details
   2. File Login
   3. Verify Client's Documents
   4. Check Loan eligibility of a client
   5. Issue Loan

6. **Report:** Reports of user details, loan plan details,client details,issued loans etc.

## Input Requirements of the System

1. Login details.
2. Employee details
3. Loan Plan Details.
4. Client Details :
   - Personal Details
   - Professional Details
   - Financial Liabilities
5. Loan Request Details.

## Output Requirements of the System

1. Loan Evaluator to check loan eligibility.
2. Getting status of loan to be issued to client
3. Proper management of loan plans.
4. Listing of user details
5. Listing of all client personal,professional and financial liabilities.
6. Listing of all loan requests.
7. Listing of all approved loans.

## Users of the System

The users of this system will be the users of the organization. The systems are menu driven to facilitate the users. The system is developed with the participation of users, which will help them to understand the system easily.

Following are the type of users:

➢ **Administrator**: Administrator will be the super user of the system having all the privileges. Administrator will be responsible to add other users of the system. Administrator will having the rights to add,update new loan plans. Administrator will be the authority to finally approve loan.

➢ **Employee**:  Employee is the member of staff of the organization using this application. Employee will be having limited rights as assigned by the administrator.

## Technologies to be used

1. **Java** :Java is Platform Independent, Secure, Object Oriented, Scalable, and Robust Programming Language
   It consists of two parts
   - JVM stands for Java Virtual Machine, which is run time environment to execute the java programs.
   - Java API (Application Programming Interface) that consists of inbuilt classes used in java programs.

2. **JDBC** (Java Database Connectivity) is an API, which is used for the communication of java programs with different databases.

3. **Windows Programming**
   - **Swings**: Swings in java is a rich set of components for building GUIs and adding interactivity to java applications. Swing includes all the components that you would expect from a modern GUI toolkit that is table controls, list controls, tree controls,buttons and labels. The basic architecture of swing is MVC. And are entirely made in java.

4. **JasperReports**
   - JasperReports is an open source reporting engine. Using JasperReports reports can generated in any type of application i.e. console application, desktop application, web application, enterprise application.

5. **MySQL**
   - MySQL is used as database, used to store data. It is RDBMS.

## Software Requirements

1. JDK 1.7
   - NetBeans 7.1

2. Database
   - MySQL Database Server 5.0

3. Reports
   - JasperReports 3.7.6

4. Jdbc Driver for MySQL Database Server
   - mysql-connector-java-5.1.7-bin.jar

5. Operating System
   - Windows Vista / XP sp3 / Linux Fedora

## Hardware Requirements

1. Intel P4 processor with minimum 2.0Ghz Speed
2. RAM: Minimum 512MB
3. Hard Disk: Minimum 20GB