

# 1. Requirements Document – Iowa DeerBank App

## 1.1 Purpose

The purpose of the Iowa DeerBank App is to provide a simplified and secure digital banking platform that allows users to manage their bank accounts online.

The system enables core banking operations such as viewing balances, transferring money, making bill payments, and reviewing transaction history.

## 1.2 Scope – What the System Will Do

The Iowa DeerBank App will support the following main capabilities:

### a) Account & User Management

- User registration and secure login/logout.
- Linking the user to one or more existing bank accounts.
- Viewing a dashboard of all accounts.

### b) Balance & Transaction History

- Viewing account balances.
- Viewing detailed transaction history.
- Filtering transactions (date range, type, etc.).

### c) Money Transfers

- Transferring money between the user's own accounts.
- Transferring money to other DeerBank customers.
- Validating sufficient funds before completing a transfer.

### d) Bill Payments

- Managing payees (e.g., utility companies).
- Paying bills from a selected account.
- Recording payment transactions.

### e) Security & Audit

- User authentication and authorization.
- Logging important actions such as transfers and payments.
- Protecting user data from unauthorized access.

## 1.3 Main Goals of the System

From both a business and user perspective, the main goals of the Iowa DeerBank App are:

### 1. Convenient Digital Banking Access

- Customers can check balances, view transactions, and access account information in one place.

### 2. Secure Money Movement

- Customers can safely transfer funds between accounts or to other customers.
- Customers can pay bills without needing to visit a physical branch.

### 3. Clear Visibility and Traceability

- Every transfer and bill payment is recorded in transaction history.
- Users understand where their money is going.

### 4. Security and Reliability

- The system implements strong authentication and authorization.
- Ensures integrity of financial operations (e.g., prevents negative balances).

## 1.4 Users – Who the Users Are

### 1. Bank Customer (DeerBank Customer)

Any person with one or more bank accounts at Iowa DeerBank.

#### Goals:

- View account balances and recent activity.
- Transfer money between accounts or to other customers.
- Pay bills conveniently.

### 2. Payee / Merchant

- External entity receiving bill payments (e.g., electricity company, water provider, phone service, etc.).