# Introduction

## Problem Statement

Create a typical consumer online banking application that provides for a customer, an account and a transaction. The functions that should be included in the application are:

1. Customers should be able to **create** an *account* with the bank
2. Customers can specify the *amount* to **lodge** with the *card* that will be debited
3. Customers can specify the *amount* to **transfer** and the *account* to transfer to
4. Customers can specify the *amount* to **withdraw** and the *card* that will be credited
5. Customers can request to view their **balance** on any of their *account(s)* at any time

## Proposed Solution

We will be using Netbeans to create a RESTful API to satisfy the problem statement. MySQL will be used to host the database required for the API and will be described in the Entity-Relationship diagram below.

We will create a server side application that allows customers to interact with the API on the website, that will be designed using HTML and CSS codes.

## Entity Relationship Diagram

C:\Users\User\Downloads\Untitled Diagram (1).png

**Customer –** Is a person or company with personal details, can hold one or more accounts and can make different transactions.

**Account –** holds information about type of account and balance after and before movements.

**Transaction –** describe what type of movement is the customer doing (withdraw, transfer, deposit), give us a description of the movement, the amount and date.

## Security Concerns