Bank Application

Scenario: You are a back-end developer and need to create an application to handle new customer bank account requests.

Your application should do the following:

* Read a .csv file of names, social security numbers, account type, and initial deposit
* Use a proper data structure to hold all these accounts
* Both savings and checking accounts share the following properties:

Deposit()

Withdraw()

Transfer()

showInfo()

11-Digit Account Number(generated with the following process: 1 or 2 depending on Savings or Checking, last two digits of SSN, unique 5-digit number, and random 3-digit number)

* Savings account holders are given a Safety Deposit Box, identified by a 3-digit number and accessed with a 4-digit code
* Checking Account holders are assigned a Debit Card with a 12-digit number and 4-digit PIN
* Both accounts will use an interface that determines the base interest rate
  + *Savings accounts will use .25 points less than the base rate*
  + *Checking accounts will use 15% of the base rate*
* The ShowInfo method should reveal relevant account information as well as information specific to the checking account or savings account.

Learning Objectives:

* Learn to develop a robust application architecture
* When to use an abstract class and abstract methods
* Use an interface API to receive information from a developer’s application
* Explore constructors deeper and use the super() keyword
* Explore access modifier and when to use the public, private or protected
* Read data from a file and store it in an appropriate data structure
* Generate random numbers and work with String API