

Abstract geometric lines in the top-left corner of the slide, consisting of several thin black lines forming various polygons and overlapping shapes.

# **NEW BANK ACCOUNT APP**

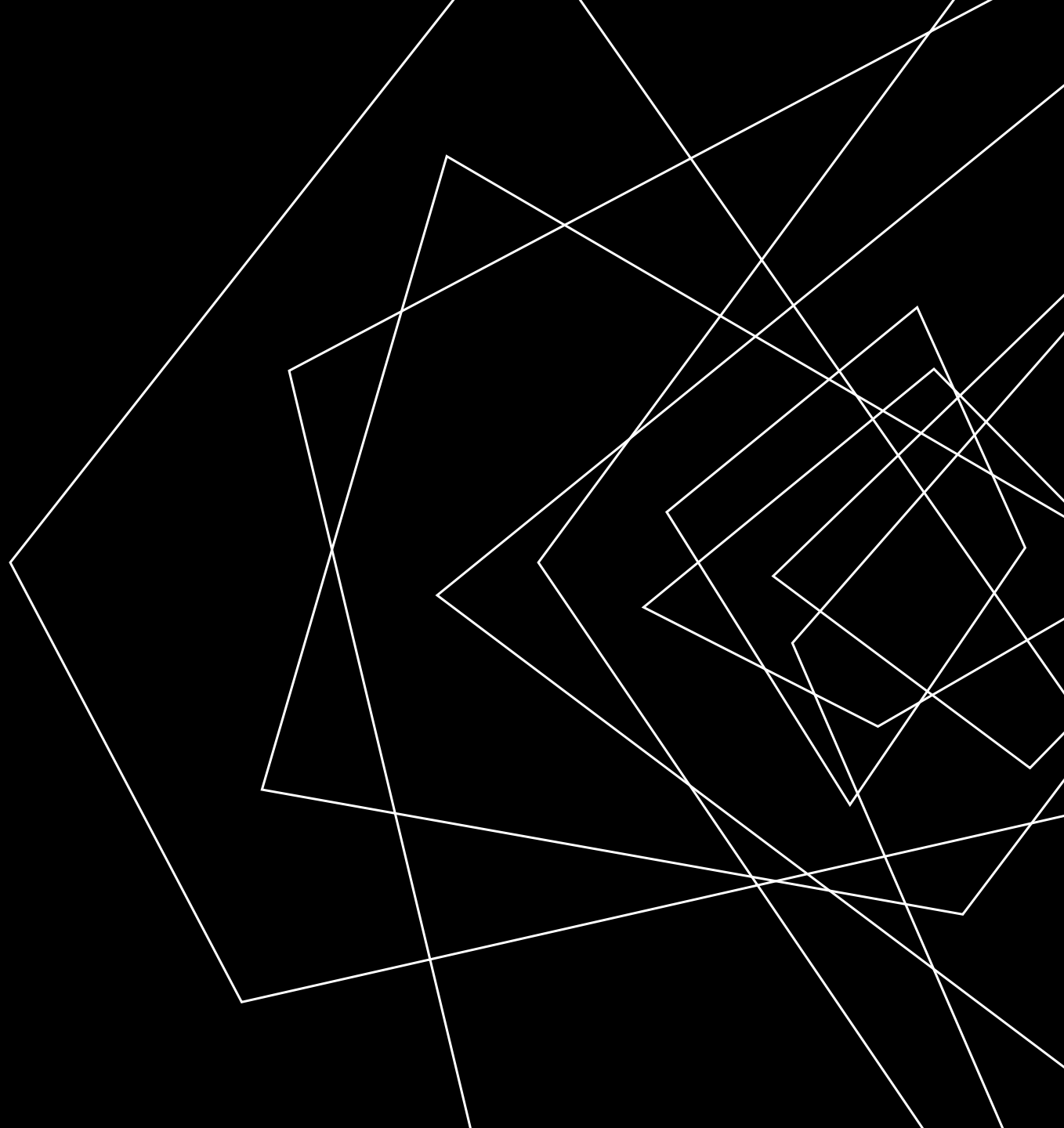
Yuan Wang CS5004 Summer22

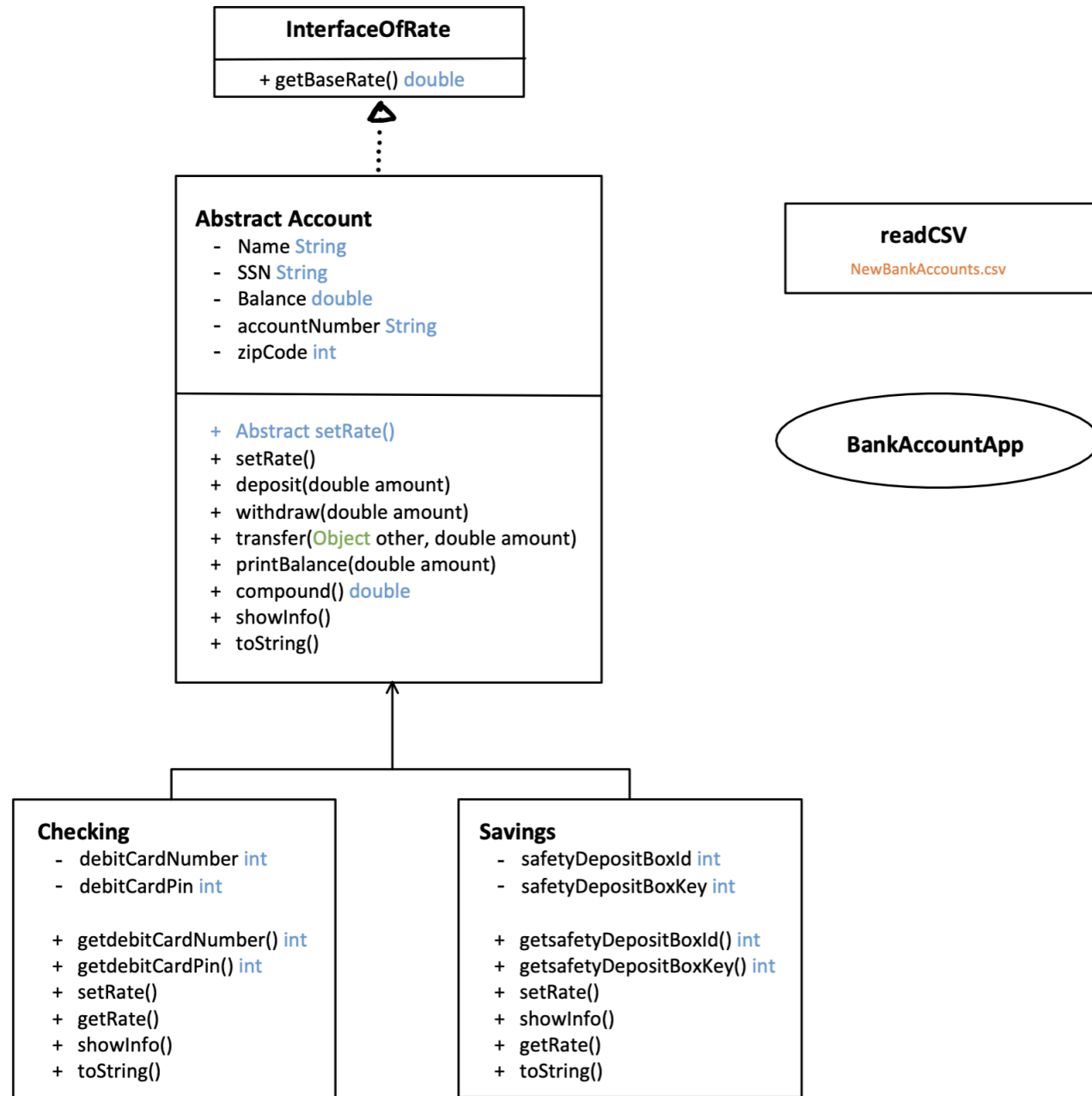
# GOALS

as a back-end developer

we need to create an application

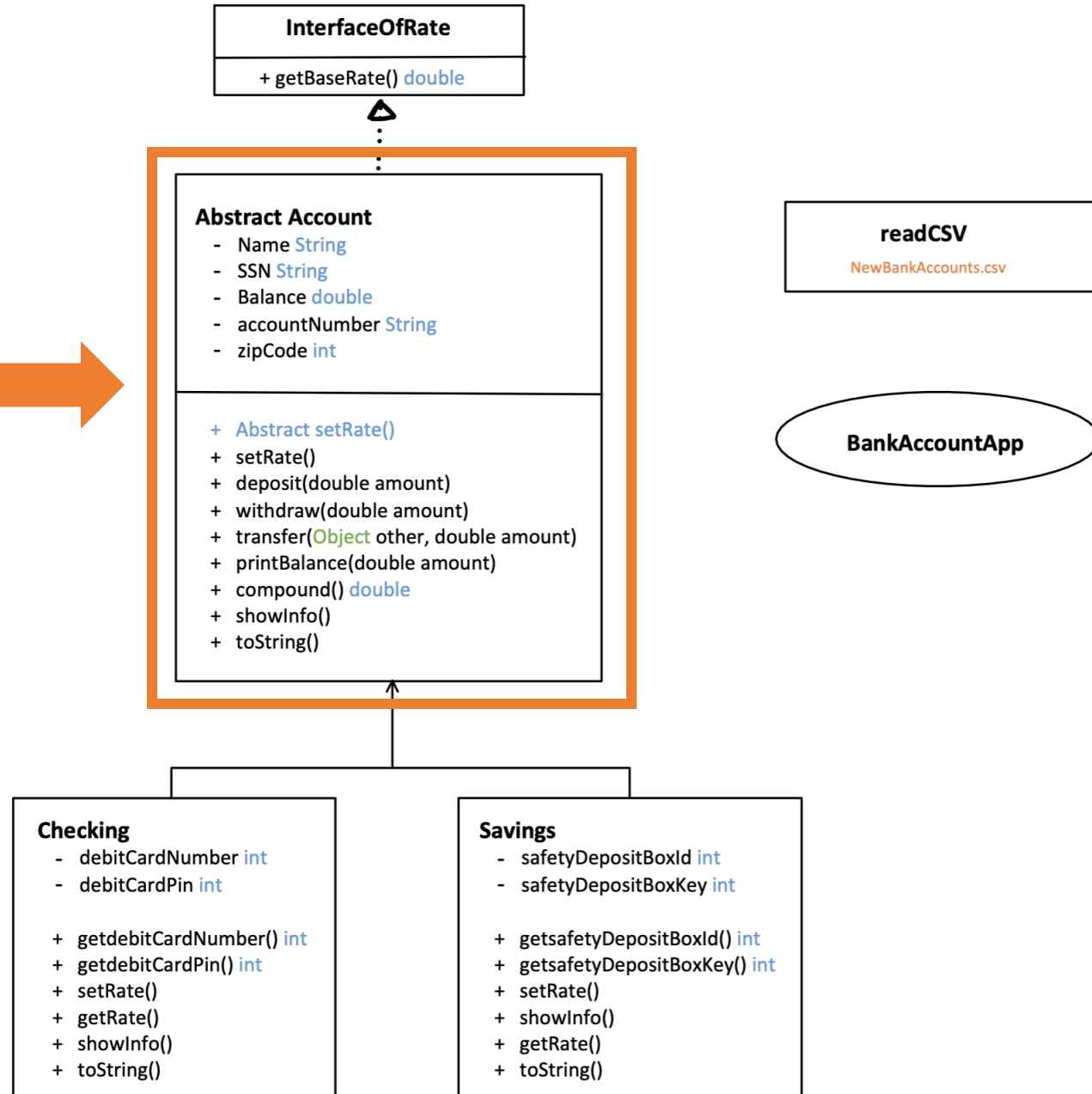
to handle new customer bank account requests





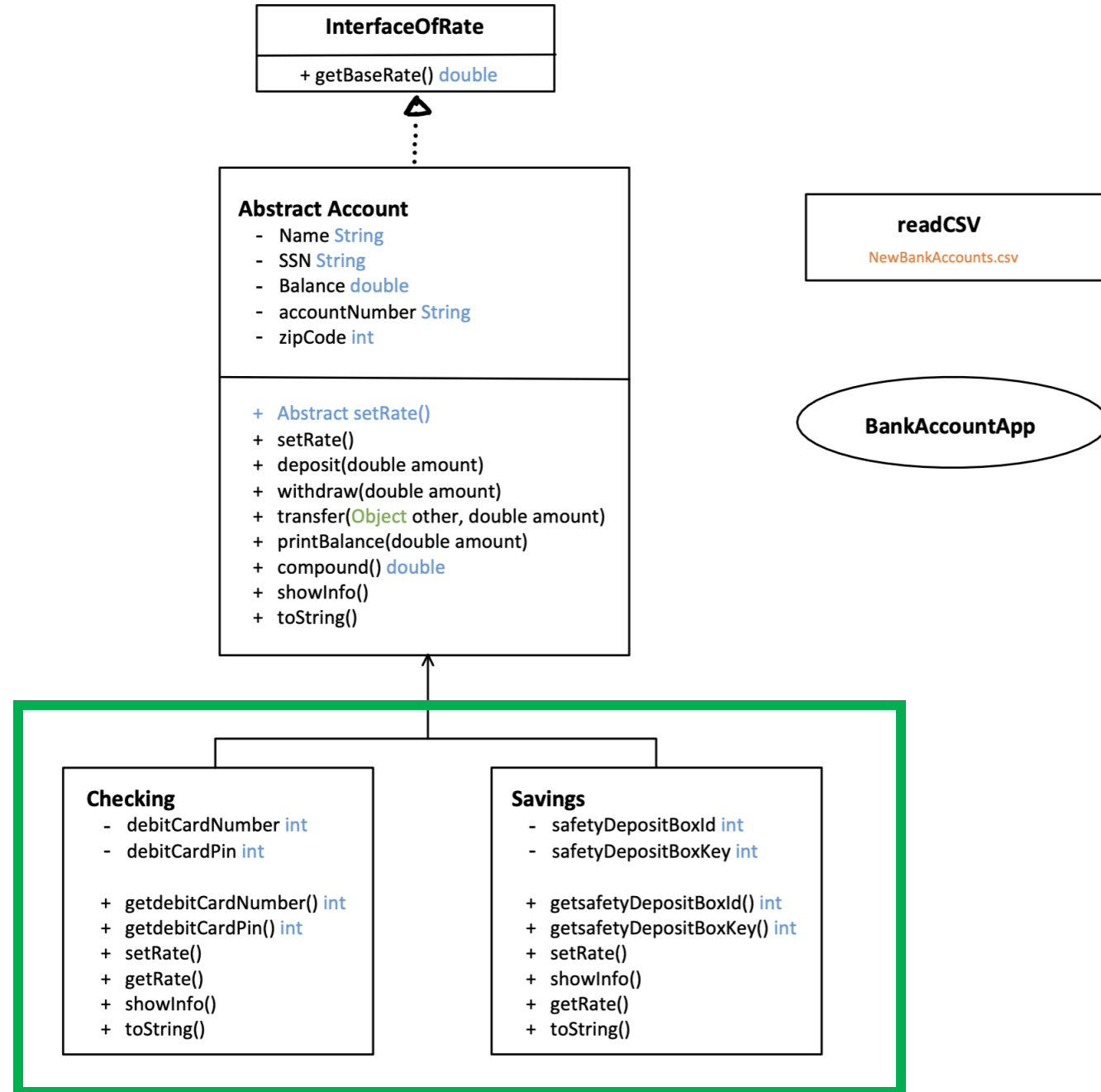
**BIG IDEA**

Abstraction



**BIG IDEA**

**Inheritance**





## LESSONS LEARNED

Generating certain random numbers in a range

```
this.debitCardNumber = (int) (Math.random() * Math.pow(10, 12));  
this.debitCardPin = (int) (Math.random() * Math.pow(10, 4));
```

Correct Access Specifiers

```
protected String accountNumber;  
7 usages  
protected double rate;
```

Writing a CSV Reader Utility

BufferedReader  
File reader

Array List

Collections are data structure allow you to  
add elements dynamically

Creating a list of objects



## **FUTURE EXTENSIONS**

### **ISSUE CREDIT CARD**

Based on their transactions

### **INVESTMENTS**

Given specific program

Ask the user which program would match their current financial situation

A series of white, thin, overlapping geometric lines on a black background, forming a complex, abstract pattern on the left side of the slide. The lines intersect to create various polygonal shapes, some of which are nested within others.

THANK YOU