ATM Interface – Product backlog

ID	Title	STORY	ACCEPTANCE CRITERIA	TASKS	TIME ESTIMATE	STATUS
1	Sign up	As a customer I want to sign up for a bank account so that I can get access to bank services.	The program should give users the option of signing up as a customer and then create a customer bank account for them. The account should be connected to a full name, a user name and a password. Full name cannot be changed. User name and password can be changed. User name should be unique. Password should be stored securely.	- Create Customer class for customer details. It should contain full name, user name, password, account number, customer id. -Create CustomerDataBase -class with a container in which customers can be stored -Create Account class for account details. This contains an account number and an account balance. -Create AccountDataBase class with a container for storing all accounts -Create HashGenerator class for securing passwords using MessageDigest/SHA256. -Create SignUp class where user inputs details for signing up and new customer+account is created. - Check that user name is unique.	3 days	done

#	Title	User Story	Description	Tasks	Estimate	Status
				- Save the SHA256 secured password and hashing salt in Customer class.		
2	Sign in	As a customer I want to sign in to my bank account so that I can use my bank services.	The program should give users the option of signing in with a user name and a password. The program should check that the credentials are valid and let the customer into the system only after validating the credentials.	-Create SignIn class where user enters a user name and a password and: -check that user name exists in customer database -get customer from database -get salt from customer and hash the password entered by the user -get password saved in user and compare with hashed password -if password is correct, present user menu -create user menu in which possible operations are presented to the customer	0,5 day	done
3	View balance	As a customer I want to view my balance so that I can see how much money I have on my account.	Once the customer has signed in successfully the customer should be presented with the option of viewing the balance. Then the program prints to screen the balance on the customer's account.	- create a ViewBalance class and in it: -get customer's account number -get account from account database -get balance from account -print balance -use Swedish currency	0,5 day	done

				formatting when printing balance		
4	Deposit money	As a customer I want to deposit money so that I can save money on my account.	The authenticated customer can deposit money by entering the amount to deposit. That amount is then registered on the customer's account balance.	- create a Deposit class and in it: - get customer's account from account database - ask customer how much money should be deposited -validate correctness of user input; amount should be numeric and positive, it can contain max 2 decimals, and it cannot exceed a max limit - add the amount to the account balance	1 day	done
5	Withdraw money	As a customer I want to withdraw money so that I can get cash from my account.	The authenticated customer can withdraw money by entering the amount to withdraw. Then that amount will be subtracted from the customer's account balance.	- Create Withdraw class and in it: -get customer's account from the account database -ask customer how much money should be withdrawn -validate correctness of user input in the same manner as in story nr.4 -check that the amount does not exceed account balance -subtract the amount from the account balance	0,5 day	done

| 6 | Transfer money | As a customer I want to transfer money so that I can digitally send money to other people. | The authenticated customer can transfer money from their own account to another account by entering the recipient's account number and the amount to transfer. | - Create Transfer class and in it:
- prompt customer for the amount to transfer and the recipient's account number
-validate amount as in story nr. 4
-validate the recipient's account number by checking that it exists in the account database
- do a withdrawal from the customer's account as in story nr. 5
- do a deposit on the recipient's account | 1 day | done |
| 7 | Change password | As a customer I want to change my password so that I can have full control over it. | The authenticated customer can choose to change password. Then the program asks the customer to enter a new password and replaces the old one with it. | - Create a ChangeCredentialsMenu where customer can choose to change password or username
- Create a method that prompts the customer to enter a new password
- Set the customer's password using HashGenerator as in story nr.1 | 0,5 day | done |

| 8 | Change username | As a customer I want to change my username so that I can choose one that I like. | The authenticated customer can choose to change username.
Then the program asks the customer to enter a new username and replaces the old one with it. | -Create a method that prompts the customer to enter a new username
-Check that the username isn't already in use
-Set the customer's username with the new one
-Update username connected to customer in customer database | 0,5 day | done |