Team:

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Title:

Project Summary:

We are trying to create an online banking system in which users have accounts. With their accounts, they will be able to withdraw, deposit, and keep track of their money. It'll be able to tell the user a history of past transactions and deposits.

Project Requirements:

As a user I should be able to log in and deposit and withdraw money. ID 30

As a user I want to reset my password if I forget it ID 31

As a user I want to be able to get my transaction history ID 32

As an admin I should be able to log in and do administrative functions ID 33

As an admin, I want to set up the server and database once the source code is downloaded ID 34

Functional requirements:

Account information stored in hash table ID 35

Only admins can modify how the accounts are stored ID 36

UI displaying interactable features ID 37

Non functional requirements:

Logging in should be quick and seamless ID 38

Relevant information should be backed up ID 39

UI Mockup:



AccountID

Current Balance: \$10,240.59

Deposit Withdraw

This is the main homepage for users. The left side contains the user's ID, their current balance, and buttons for depositing and withdrawing money. The rest of the page contains purchase history such as the date, where the purchase was made, and transaction amount.

		I .
2/20/2018	McDonald's	-\$9.29
2/20/2018	Best Buy	-\$100.50
2/20/2018	Taco Bell	-\$5.24
2/20/2018	CU Bookstore	-\$1402.30
2/20/2018	Coinbase	+\$1.07
2/20/2018	Coinbase	-\$100.00
2/20/2018	Coinbase	-\$100.00
2/20/2018	Payroll	+\$500.89
2/19/2018	Chipotle	-\$8.29
2/19/2018	Riot Games	-\$20.00

AccountID

Current Balance: \$10,240.59

Deposit Withdraw

This is what is seen wher making a withdrawal

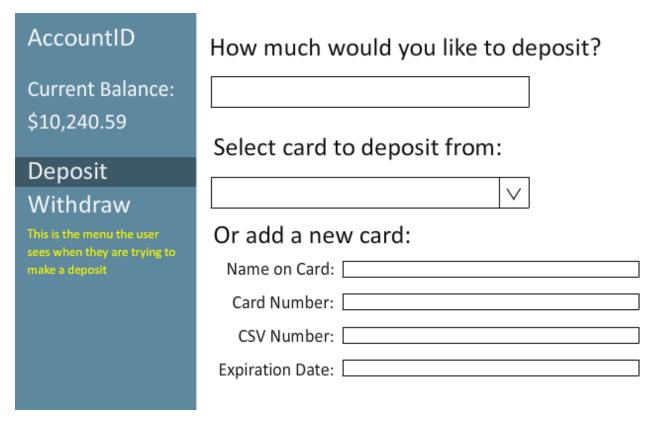
How much would	you	like	to	withd	raw?
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Select card to withdraw to:

|--|

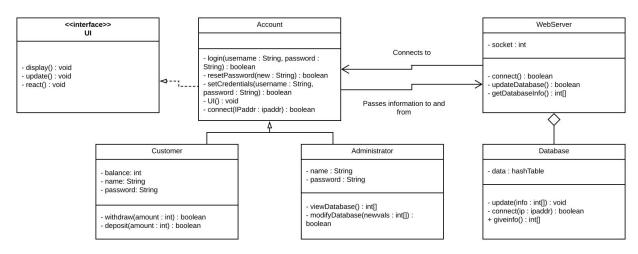
Or add a new card:

Name on Card:	
Card Number:	
CSV Number:	
Expiration Date:	

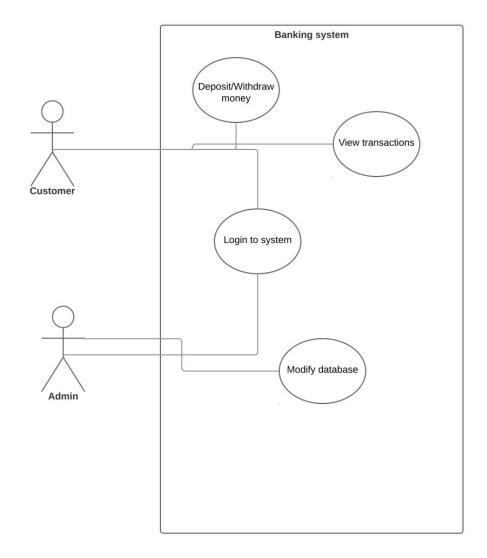


Data Storage: For our data storage, we will be using a hash table to store all of our user information. We'll have user account #'s that are tied with their emails, login information, and account information such as a net balance in their account.

Class Diagram:



Use Case Diagram:



Use Case Document:

Use Case ID	25
Use Case Name	Withdrawing Money
Description	Customer withdraws money stored in service, gets error if no money to withdraw

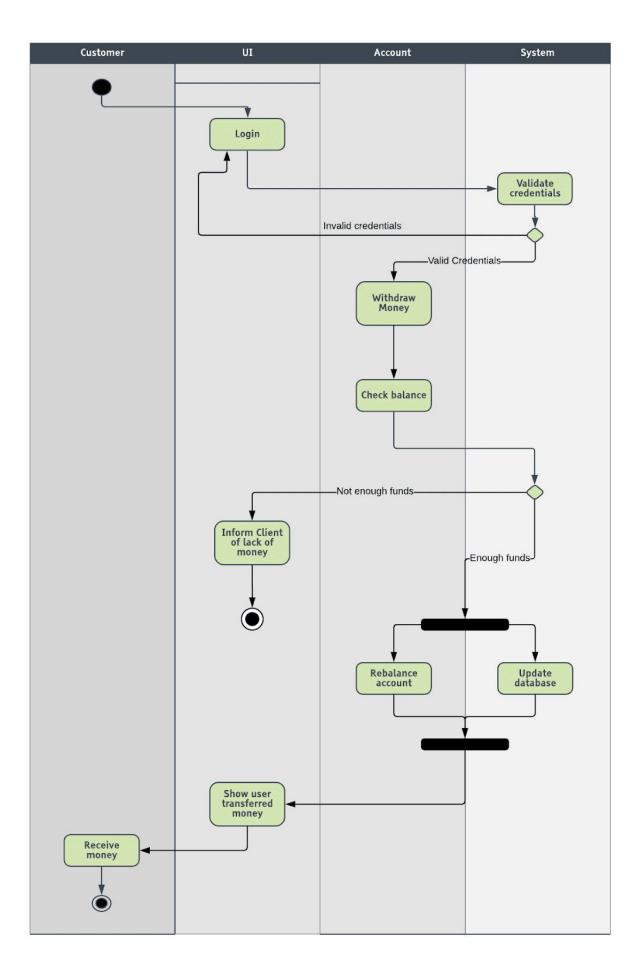
Actors	Customer
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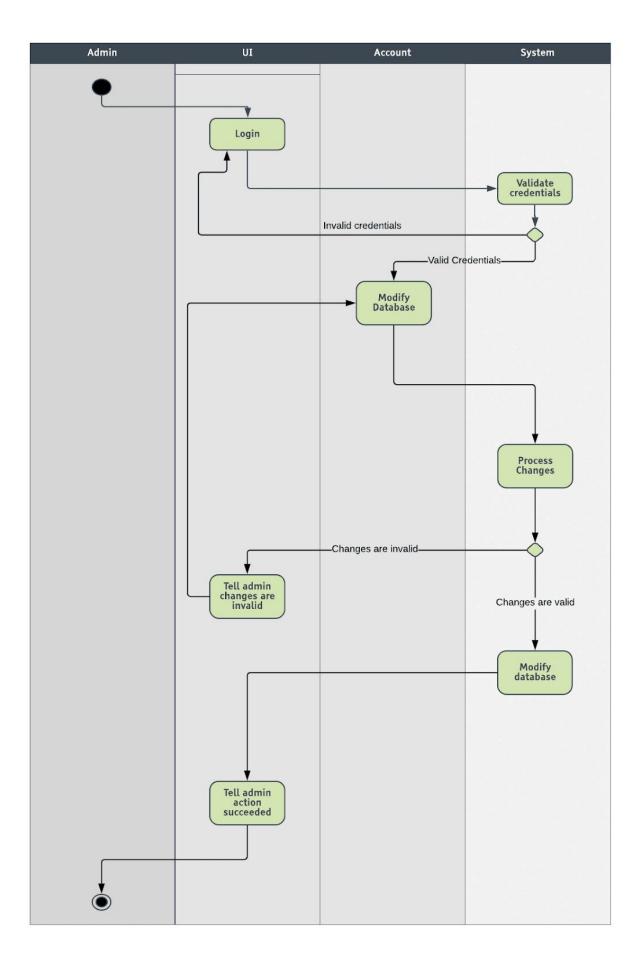
Preconditions	Database, server, account are set up and money has been deposited
Post conditions	Database balance updated, customer receives money
Frequency	Constant use by customers
Variations	
Exceptions	Error message: Not enough money to withdraw
Developer Notes	

Use Case ID	21
Use Case Name	System setup
Description	Admin sets up object and database instances, gets message indicating success or failure

Actors	Admin
Preconditions	Source code is properly downloaded
Post conditions	Database and server and object instances are running on machine
Frequency	Once per installation
Variations	Resetting instances if machine goes down
Exceptions	Error message: Setup failed
Developer Notes	

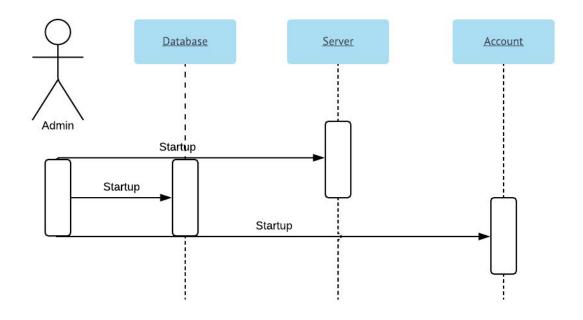
Activity Diagrams:





Sequence Diagrams:

Req ID 34 Use case ID 21



Req ID 30 Use Case ID 25

