MerryMen Investments

BidShare

Our Team - CSC 111: Team 3

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Systems Design (Presentation Slide Deck)

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Data Analyst (Text Files and/or Database)

About our company

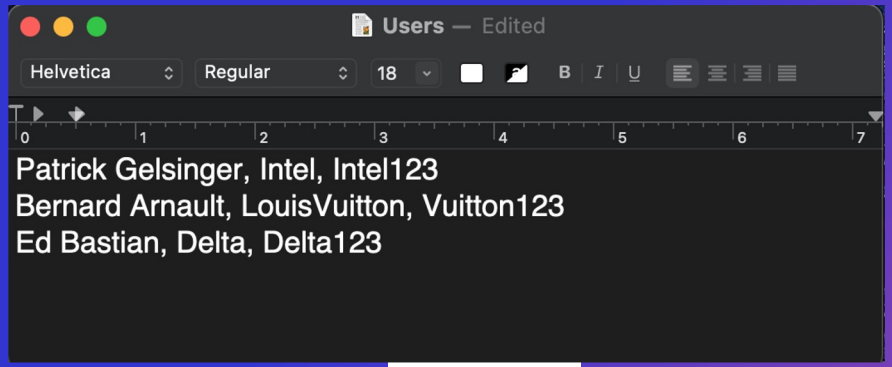
MerryMen Investments is an online business offering service. Elite companies are given the ability to place begin their purchase of other large businesses

- We plan to make business easy and quick.
- Create a future with more successful businesses.
- Help you climb to the top!

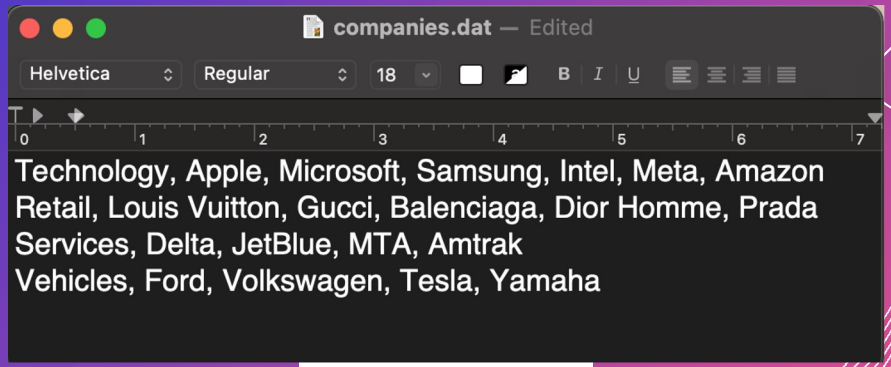
Participating Businesses

Tech	Retail	Services	Vehicle
Apple, Microsoft, Samsung, Intel, Meta (Facebook), Amazon	Louis Vuitton, Gucci, Balenciaga, Dior Homme, Prada	Delta, Jet Blue, MTA, Amtrak	Ford, Volkswagen, Tesla, Yamaha

Classes & .dat Files



logins.txt



categories.txt

Log in info:
name, username,
password

Software Description

- Login to system
- Separates possible companies into categories
- Choose which company would you like to place an offer on
- Input percentage of company you would like to purchase
- Form of payment(loan, in-full, % of company)
- Print offer receipt
- logout

BidShare Algorithm

1. Declare variables for users and login credentials
2. Declare variables for companies up for bidding
3. Declare variables for bids and payment options
4. Creates object for login information
5. Creates an ArrayList for bids
6. Create the following functions:
    a. Login function reads information from txt file and allows 3 login attempts
    b. Display categories and companies available
    c. Bidding function to choose categories and companies
    d. Display a receipt with summary of all bids
7. Create classes:
    a. SellingCompany
    b. BuyingCompany
    c. SalesSystem (BidShsre)
8. Create text files
    a. Logns.txt(input)
    b. Categories (input)

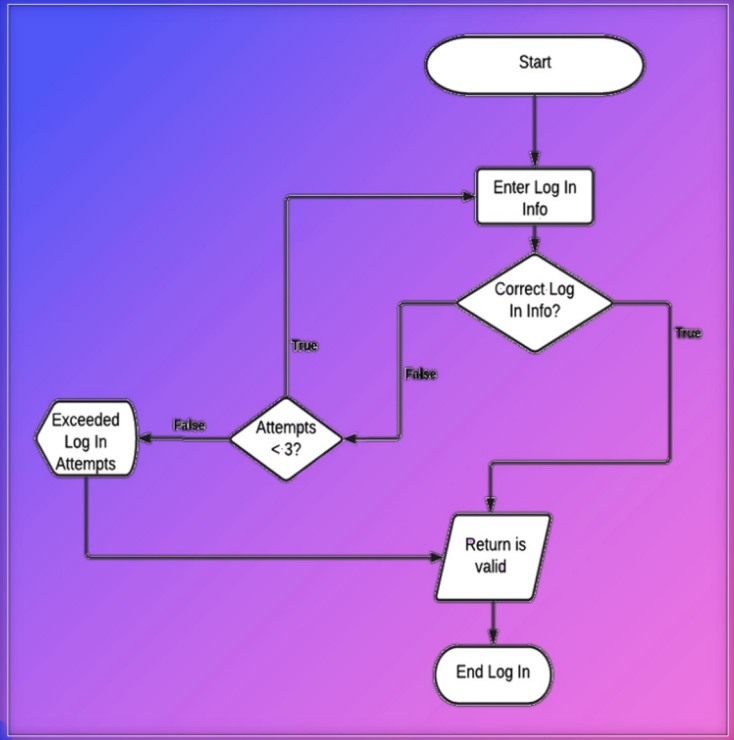
Demo

Program Demo

Using the username “Delta”
Using the password “Delta123”
To demonstrate our program:

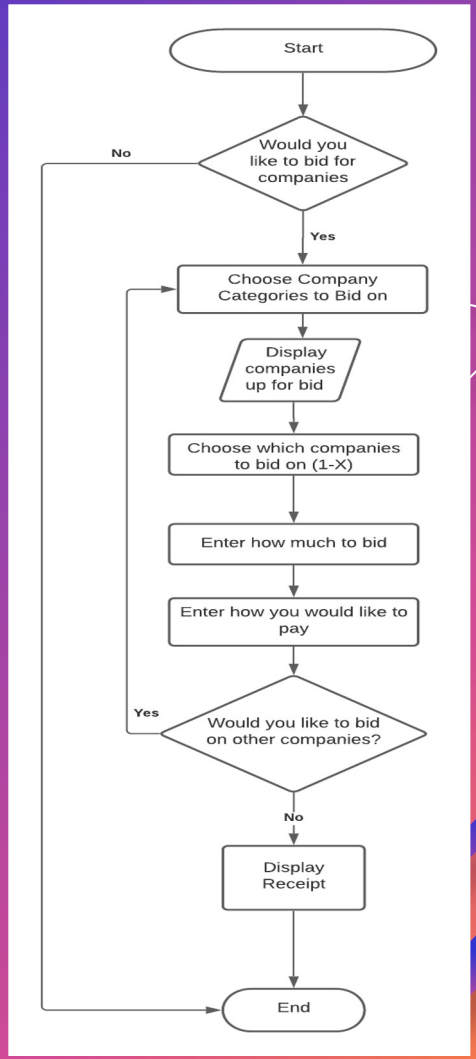
- User will log in.
- User will place a bid on a specific company.
- User will continue to search and pick the right payment roll.

LogIn Flow Chart - Link for FlowChart



```
package pkgMerge;

public class BuyingCompany {
	private String name;
	private String username;
	private String password;
	private boolean valid;
	public BuyingCompany()
	{
		name = "";
		password = "";
		username = "";
		valid = false;
	}

	public boolean isValid() {
		return valid;
	}

	public void setValid(boolean valid) {
		this.valid = valid;
	}

	public BuyingCompany(String n, String p,String u,boolean v)
	{
		name = n;
		password = p;
		username = u;
		valid = v;
	}

	public String getName() {
		return name;
	}

	public void setName(String name) {
		this.name = name;
	}

	public String getUsername() {
		return username;
	}

	public void setUsername(String username) {
		this.username = username;
	}

	public String getPassword() {
		return password;
	}

	public void setPassword(String password) {
		this.password = password;
	}

}
```

Bidding System Flow Chart



```
package pkgMerge;
import java.util.Scanner;
import java.io.*;
import java.util.ArrayList;

public class SalesSystem {
	public static void main(String[] args)
	throws IOException
	{
		// defines variables
		int paymentOption = 1;

		// creates object for user and calls login
		BuyingCompany user = login();
		boolean first = true;
		// creates an arraylist to store bids
		ArrayList<SellingCompany> bids = new ArrayList<SellingCompany>();

		// starts bidding loop
		while(user.isValid())
		{

			// defines scanner for user input
			Scanner k = new Scanner(System.in);
			// storage for user input
			String input;

			// determines whether it's the user's first bid
			if (first)
			{
				// prompts the user on if they want to bid for companies
				System.out.println("Would you like to bid for companies? (Yes or No)");
				input = k.next();
			}
			else input = "yes";


			// creates SellingCompany object to store bids
			SellingCompany offer;

			// parses the user's input to determine if they want to bid or not
			if(input.toLowerCase().equals("yes") || input.toLowerCase().charAt(0) == 'y')
			{
				// prompts the user for their choice of category
				System.out.println("What category would you like to choose?(Choose a number from the list)");
				// prints the categories they can choose from
				displayCategories();

				// stores the user's category choice
				int choice = k.nextInt();

				// takes the user's input to choose their category
				chooseCategory(choice);

				// prompts the user for their choice of company
				System.out.println("Which company would you like to bid on? (Choose a number from the list)");

				// stores user's company choice
				int compChoice = k.nextInt();

				// stores their chosen company and bid into and object
				offer = chooseCompany(compChoice,choice,k);
				// adds their bid to the bid storage array
				bids.add(offer);
				// determines whether the bid was valid
				if (offer.getCurrentBid() > 0)
				{
					// prompts the user for their method of payment
					System.out.println("How would you like to pay?");
					System.out.println("1. Pay in full\n2. Mortgage");
					// stores method of payment
					paymentOption = k.nextInt();

				}
				else {
					// terminates program if the bid was invalid
					System.out.println("You must bid a number over 0");
					System.exit(0);
				}

				// prompts user if they want to bid again
				System.out.println("Would you like to bid for other companies? (Yes or no)");
				if(k.nextLine().toLowerCase().equals("no") || k.nextLine().toLowerCase().charAt(0) == 'n')
				{
					user.setValid(false);
				}
				else {first = false;}



			} else System.exit(0); // closes program if they don't want to bid


		}// ends bidding loop
		printReceipt(user,bids,paymentOption);
	}
```

```
public class SalesSystem {
	public static void main(String[] args)
	throws IOException
	{
		// defines variables
		int paymentOption = 1;

		// creates object for user and calls login
		BuyingCompany user = login();
		boolean first = true;
		// creates an arraylist to store bids
		ArrayList<SellingCompany> bids = new ArrayList<SellingCompany>();

		// starts bidding loop
		while(user.isValid())
		{

			// defines scanner for user input
			Scanner k = new Scanner(System.in);
			// storage for user input
			String input;

			// determines whether it's the user's first bid
			if (first)
			{
				// prompts the user on if they want to bid for companies
				System.out.println("Would you like to bid for companies? (Yes or No)");
				input = k.next();
			}
			else input = "yes";
```

```
package pkgMerge;
import java.util.Scanner;
import java.io.*;
import java.util.ArrayList;

public class SalesSystem {
	public static void main(String[] args)
	throws IOException
	{
		// defines variables
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		BuyingCompany user = login();
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		// starts bidding loop
		while(user.isValid())
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			// defines scanner for user input
			Scanner k = new Scanner(System.in);
			// storage for user input
			String input;

			// determines whether it's the user's first bid
			if (first)
			{
				// prompts the user on if they want to bid for companies
				System.out.println("Would you like to bid for companies? (Yes or No)");
				input = k.next();
			}
			else input = "yes";

			// creates SellingCompany object to store bids
			SellingCompany offer;

			// parses the user's input to determine if they want to bid or not
			if(input.toLowerCase().equals("yes") || input.toLowerCase().charAt(0) == 'y')
			{
				// prompts the user for their choice of category
				System.out.println("What category would you like to choose?(Choose a number from the list)");
				// prints the categories they can choose from
				displayCategories();

				// stores the user's category choice
				int choice = k.nextInt();

				// takes the user's input to choose their category
				chooseCategory(choice);

				// prompts the user for their choice of company
				System.out.println("Which company would you like to bid on? (Choose a number from the list)");

				// stores user's company choice
				int compChoice = k.nextInt();

				// stores their chosen company and bid into and object
				offer = chooseCompany(compChoice,choice,k);
				// adds their bid to the bid storage array
				bids.add(offer);
				// determines whether the bid was valid
				if (offer.getCurrentBid() > 0)
				{
					// prompts the user for their method of payment
					System.out.println("How would you like to pay?");
					System.out.println("1. Pay in full\n2. Mortgage");
					// stores method of payment
					paymentOption = k.nextInt();

				}
				else {
					// terminates program if the bid was invalid
					System.out.println("You must bid a number over 0");
					System.exit(0);
				}

				// prompts user if they want to bid again
				System.out.println("Would you like to bid for other companies? (Yes or no)");
				if(k.nextLine().toLowerCase().equals("no") || k.nextLine().toLowerCase().charAt(0) == 'n')
				{
					user.setValid(false);
				}
				else {first = false;}



			} else System.exit(0); // closes program if they don't want to bid


		}// ends bidding loop
		printReceipt(user,bids,paymentOption);
	}
```

```java
/**
 * printReceipt prints the user's receipt
 * @param user the user
 * @param bids the bids the user placed
 * @param paymentOption option of mortgage or paid in full
 */
public static void printReceipt(BuyingCompany user,ArrayList<SellingCompany> bids,int paymentOption)

{

        for(int i = 0; i < bids.size(); i++)
        {
                System.out.printf("Your bid on %s for $%.2f has been proccessed",bids.get(i).getName(),bids.get(i).getCurrentBid());
                if(paymentOption == 1)
                {
                        System.out.println(" (Paid in full)");
                }
                else System.out.println(" (Mortgaged)");
        }
        System.out.println("Thank you " + user.getName() + " for your service today.");
        System.out.println("You will be notified of the results of your proposal.");
}
```

Receipt code

```java
/**
 * chooseCompany allows the user to choose a company from their chosen category
 * @param choice choice of company from list
 * @param category category choice
 * @param k System.in scanner
 * @return company name and the bid they placed
 * @throws IOException
 */
public static SellingCompany chooseCompany(int choice,int category,Scanner k)
throws IOException
{
        String[] hold = new String[15];
        File cat = new File("categories.dat");
        Scanner f = new Scanner(cat);
        int counter = 1;
        SellingCompany stuff = new SellingCompany();
        while(f.hasNext())
        {
                hold = f.nextLine().split(",");
                if(counter == category)
                {
                        for(int i = 1; i <hold.length; i++)
                        {
                                if(i == choice)
                                {
                                        stuff.setName(hold[i]);
                                        System.out.println("How much would you like to bid on this company?");
                                        stuff.setCurrentBid(k.nextDouble());

                                }
                        }
                        counter++;
                }
                else counter++;

        }
        return stuff;
}
```

Categories and bidding system

Thank You For Your Time!