



In Toronto

**Online Banking Application in Java using Spring MVC**

**CSD-4464 Programming Java EE**

**Final Project**

**Date: 5th April 2022**

**By,**

**Group E Members:**

**Yamini Rathod C0796390**

**Anirudh Vallampatla C0796429**

**Meghana Kondaveeti C0784302**

**Srikanth Ajith Kumar Yarram C0793406**

**Vishal Kumar C0793379**

**Submitted to the Lambton College Toronto**

**in partial fulfillment of the requirements**

**for the award of the degree**

**PG Computer Software and Database Development (CSAT)**

**Winter 2022**

**Lambton College in Toronto**

**CERTIFICATE OF ORIGINALITY**

This is to certify that the project report entitled **Online Banking Application in Java using Spring MVC** submitted to **Lambton College in Toronto** in partial fulfillment of the requirement for the award of the degree of **PG Computer Software and Database Development (CSAT)**, is an authentic and original work carried out by us.

The matter embodied in this project is genuine work done by us and has not been submitted whether to this University or to any other University / Institute for the fulfillment of the requirements of any course of study.

.....

Signature of the Student

Date: 7<sup>th</sup> April 2022

Name and Enrolment Number of students

Yamini Rathod C0796390

Anirudh Vallampatla C0796429

Meghana Kondaveeti C0784302

Srikanth Ajith Kumar Yarram C0793406

Vishal Kumar C0793379

# **Project Synopsis**

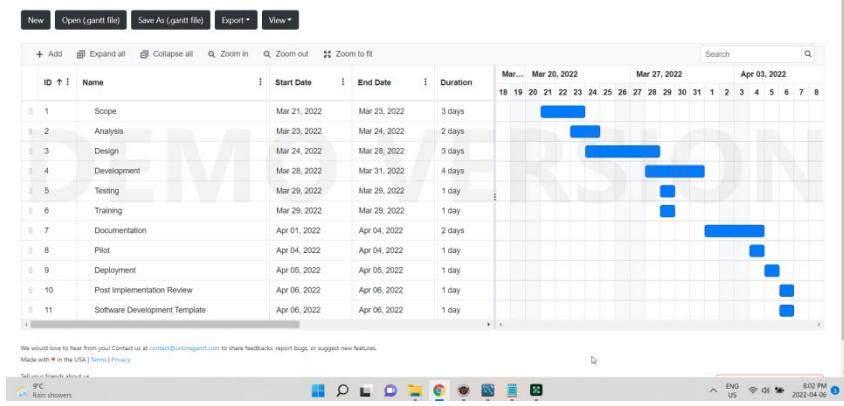
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## **Title of the Project**

“Online Banking Application in Java using Spring MVC”.

## SDLC Gantt Chart

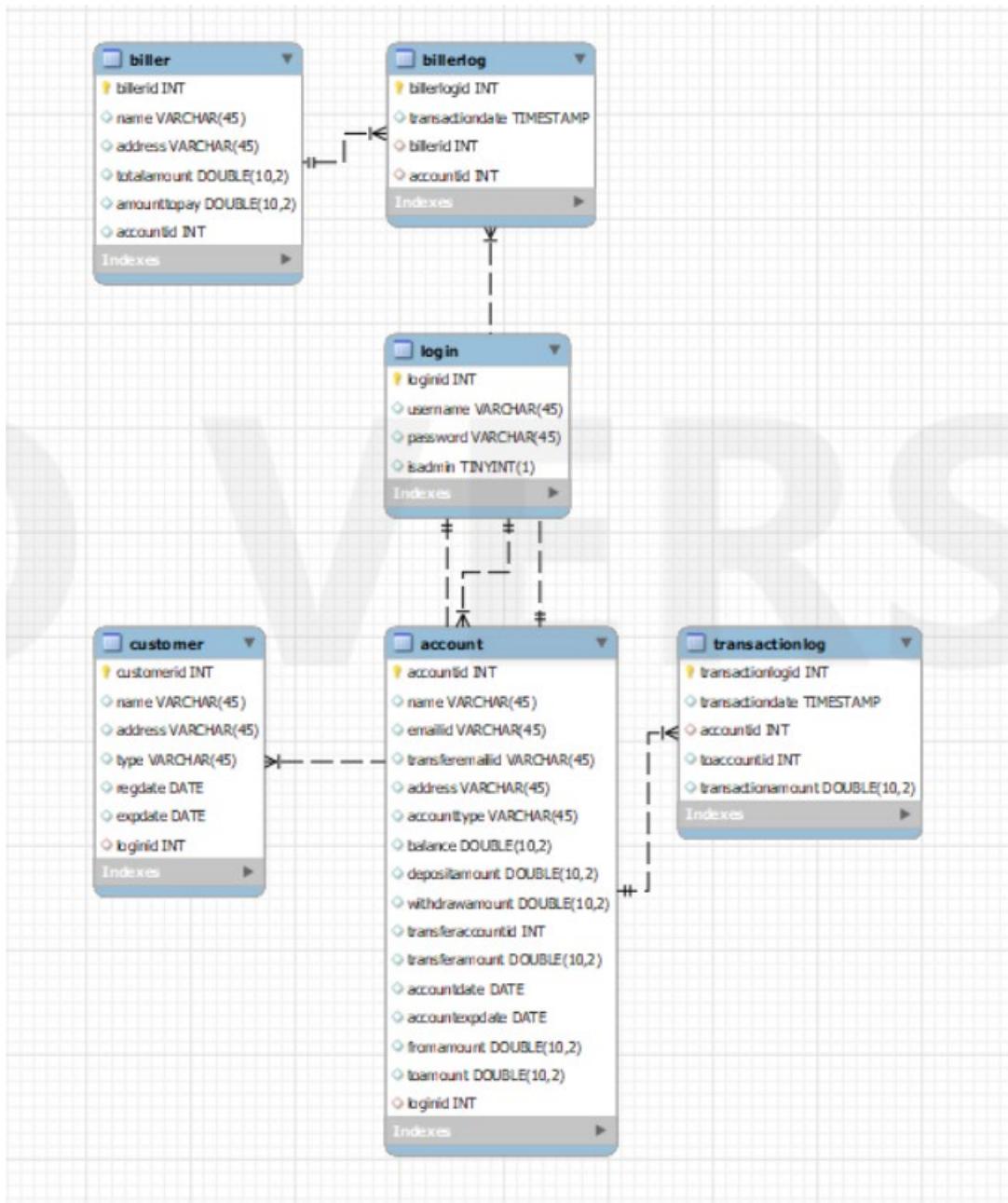


## Data Dictionary

	A	B	C	D
1	<b>LOGIN</b>			
2	ATTRIBUTE NAME	REQUIRED	FORMAT	MAX FIELD SIZE
3	accountid	Yes	Number	NA
4	name	Yes	Text	45
5	emailid	Yes	Text	45
6	transferemailid	No	Text	45
7	address	Yes	Text	45
8	accounttype	Yes	Text	45
9	balance	Yes	Number	10
10	depositamount	No	Number	10
11	withdrawamount	No	Number	10
12	transferaccountid	No	Number	NA
13	transferamount	No	Number	10
14	accountdate	Yes	Date	NA
15	accountexpdate	Yes	Date	NA
16	fromamount	No	Number	10
17	toamount	No	Number	10
18	loginid	Yes	Number	NA
19				
20	<b>BILLER</b>			
21	ATTRIBUTE NAME	REQUIRED	FORMAT	MAX FIELD SIZE
22	billerid	Yes	Number	NA
23	name	Yes	Text	45
24	address	Yes	Text	45
25	totalamount	Yes	Number	10
26	amounttopay	No	Number	10
27	accountid	No	Number	NA

	A	B	C	D
28				
29	<b>BILLERLOG</b>			
30	ATTRIBUTE NAME	REQUIRED	FORMAT	MAX FIELD SIZE
31	billerlogid	Yes	Number	NA
32	transactiondate	Yes	Date	NA
33	billerid	Yes	Number	NA
34	accountid	Yes	Number	NA
35				
36	<b>CUSTOMER</b>			
37	ATTRIBUTE NAME	REQUIRED	FORMAT	MAX FIELD SIZE
38	customerid	Yes	Number	NA
39	name	Yes	Text	45
40	address	Yes	Text	45
41	type	Yes	Text	45
42	regdate	Yes	Date	NA
43	expdate	Yes	Date	NA
44	loginid	Yes	Number	NA
45				
46	<b>TRANSACTIONLOG</b>			
47	ATTRIBUTE NAME	REQUIRED	FORMAT	MAX FIELD SIZE
48	transactionlogid	Yes	Number	NA
49	transactiondate	Yes	Date	NA
50	accountid	Yes	Number	NA
51	toaccountid	Yes	Number	NA
52	transactionamount	Yes	Number	10
53				

## ERD Diagram



## **Introduction and Objectives of the Project**

### **Purpose**

The main purpose of this project is to focus on real life application scenario. Online banking is used by almost everyone these days. The agenda would be to build an application and implement the banking features.

### **Objectives**

The project is divided into two parts. The first part contains the main functionality of banking website such as transfer money, withdraw money, deposit money etc. The second part of implementation contains the advanced features such as transfer money using interact, currency conversation, a restriction of transferring \$1000 per day, minimum balance of account must be \$500, withdrawal error in case of minimum balance goes below \$500 due to withdrawal, admin and non admin privileges on banking features and so on.

### **Goals**

The goal is to design an online banking application which should have all necessary basic as well as advanced features. This project is implemented on Java usin Spring MVC Framework.

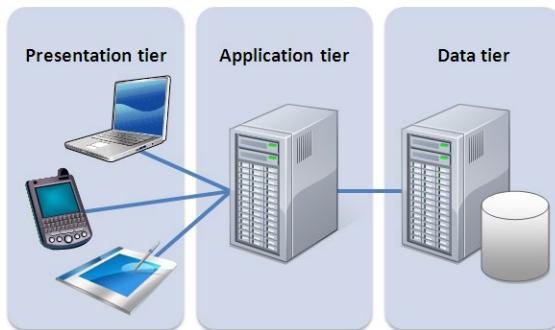
## Project Category

This project is covering the skills and core areas of Java Spring MVC Application with equal emphasis on the theory and practice. The main focus is to implement an application and analyze issues in the applications followed by case study in the same area.

## Application Architecture

Three tier architecture

Three-tier architecture is a client–server software architecture pattern in which the user interface(presentation), functional process logic ("business rules"), computer data storage and data access are developed and maintained as independent modules, most often on separate platforms.



The three tiers in three-tier architecture are:

1. **Presentation Tier:** Occupies the top level and displays information related to services available on a website. This tier communicates with other tiers by sending results to the browser and other tiers in the network.
2. **Application Tier:** Also called the middle tier, logic tier, business logic or logic tier, this tier is pulled from the presentation tier. It controls application functionality by performing detailed processing.
3. **Data Tier:** Houses database servers where information is stored and retrieved. Data in this tier is kept independent of application servers or business logic.

# Research Methodology

## Rational Unified Process

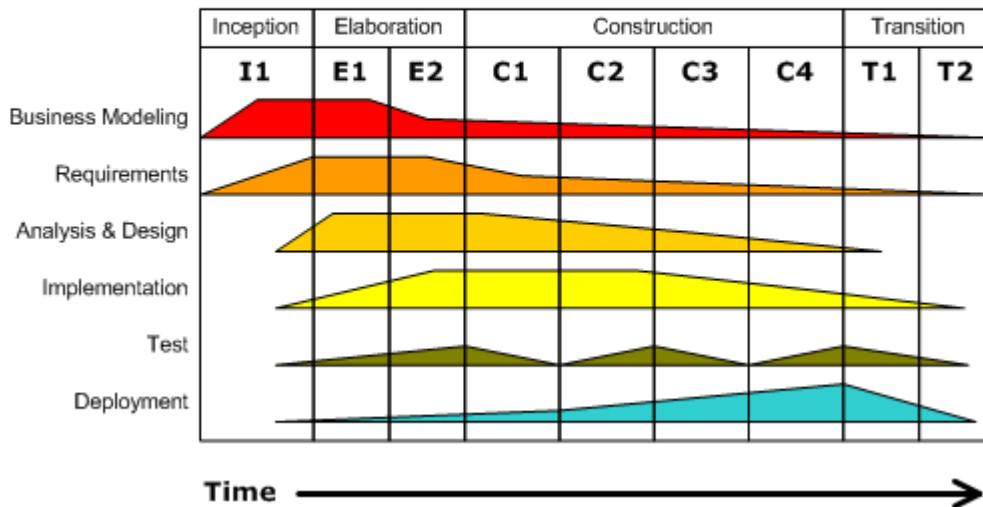
This software engineering process has three branches from all of the generic process models that a standard software engineering project would require or is entitled to, it also supports regular revisions and it also provides guidelines of “standard practices” in system analysis and design.

This model is best described by following three perspectives:

- |                 |  |
|-----------------|--|
| <b>Static</b>   | This phase shows the set of actions that are carried out over development period         |
| <b>Dynamic</b>  | This phase shows an overview of phases that covers major aspects of development          |
| <b>Practice</b> | These phases are guidelines that provides the bases of standards that should be followed |

## Iterative Development

Business value is delivered incrementally in time-boxed cross-discipline iterations.



## **Scope of the solution**

By this project, we can develop the banking portal for new banking firm, or we can suggest a better solution to the existing banking portals. Though all existing banking portal has the features that has been implemented on our project, however, an enhancement can be made by analyzing the robustness and accuracy of our application.

## **Analysis**

The project analysis will be based upon below three concepts.

Data held on IT systems is valuable and critical to the business of the University. We all rely on IT to store and process information, so it is essential that we maintain Information Security.

The analysis of information security policies is to preserve:

**Confidentiality** | Data is only accessed by those with the right to view the data.

**Integrity** | Data can be relied upon to be accurate and processed correctly.

**Availability** | Data can be accessed when needed.

Failure to comply with the requirements of these Information Security Guidelines may lead to disciplinary action.

## **Future scope and further enhancement of the project**

The project can be made more advanced by implementing sessions, hosting email interact feature on SMTP level, and many more. Indeed, Java MVC Spring gives a robust platform to develop the solutions to the real world problems. It is easier to debug, manage, maintain and develop. It also has a huge list of spring libraries to make developer task easy throughout the task.

## **Bibliography and Literature survey**

### **Problem Statement**

The problem of	Online Banking Application
Affects	Customers, Admin
The impact of which is	Banking Transactions
A successful solution would be to	Design of a database for storing the entire information, a front end for user interaction with the system, and analysis of daily, weekly, monthly or yearly transactions on different types with implementation of validation.

### **Literature survey**

1. **Study of different software development lifecycle model**
2. **Study of Java Spring MVC Framework**
3. **Study of Dao and Controller Interactions**
4. **Study of existing banking applications**
5. **Study of class lectures, PPT, book, and Stackoverflow**
6. **Study of Admin and Non Admin Privileges**
7. **Study of Application Validation**
8. **Study of Application Risks and Vulnerability**

## Scripts and Description of each page

Beans

Account.java

This page contains the properties, getters and setters for Account fields.

```
package com.amsvy.finalproject.beans;

import org.hibernate.validator.constraints.NotBlank;

public class Account {

    @NotBlank(message = "Data cannot be blank")
    private int accountid;
    private String name;
    private String emailid;
    private String transferemailid;
    private String transactiondate;

    public String getTransactiondate() {
        return transactiondate;
    }

    public void setTransactiondate(String transactiondate) {
        this.transactiondate = transactiondate;
    }

    public String getEmailid() {
```

```
        return emailid;
    }

    public void setEmailid(String emailid) {
        this.emailid = emailid;
    }

    public String getTransferemailid() {
        return transferemailid;
    }

    public void setTransferemailid(String transferemailid) {
        this.transferemailid = transferemailid;
    }

    private String address;
    private String accounttype;
    private double balance;
    private double depositamount;
    private double fromamount;
    private double toamount;

    public double getFromamount() {
        return fromamount;
    }
```

```
public void setFromamount(double fromamount) {  
    this.fromamount = fromamount;  
}  
  
public double getToamount() {  
    return toamount;  
}  
  
public void setToamount(double toamount) {  
    this.toamount = toamount;  
}  
  
public double getDepositamount() {  
    return depositamount;  
}  
  
public void setDepositamount(double depositamount) {  
    this.depositamount = depositamount;  
}  
  
private double withdrawamount;  
private int transferaccountid;  
private double transferamount;
```

```
public int getTransferaccountid() {  
    return transferaccountid;  
}  
  
public void setTransferaccountid(int transferaccountid) {  
    this.transferaccountid = transferaccountid;  
}  
  
public double getTransferamount() {  
    return transferamount;  
}  
  
public void setTransferamount(double transferamount) {  
    this.transferamount = transferamount;  
}  
  
public double getWithdrawamount() {  
    return withdrawamount;  
}  
  
public void setWithdrawamount(double withdrawamount) {  
    this.withdrawamount = withdrawamount;  
}  
  
public double getBalance() {
```

```
        return balance;  
    }  
  
    public void setBalance(double balance) {  
        this.balance = balance;  
    }  
  
    private String accountdate;  
    private String accountexpdate;  
    private int loginid;  
  
    public int getAccountid() {  
        return accountid;  
    }  
  
    public void setAccountid(int accountid) {  
        this.accountid = accountid;  
    }  
  
    public String getName() {  
        return name;  
    }  
  
    public void setName(String name) {  
        this.name = name;  
    }
```

```
}

public String getAddress() {
    return address;
}

public void setAddress(String address) {
    this.address = address;
}

public String getAccounttype() {
    return accounttype;
}

public void setAccounttype(String accounttype) {
    this.accounttype = accounttype;
}

public String getAccountdate() {
    return accountdate;
}

public void setAccountdate(String accountdate) {
    this.accountdate = accountdate;
}
```

```
public String getAccountexpdate() {  
    return accountexpdate;  
}  
  
public void setAccountexpdate(String accountexpdate) {  
    this.accountexpdate = accountexpdate;  
}  
  
public int getLoginid() {  
    return loginid;  
}  
  
public void setLoginid(int loginid) {  
    this.loginid = loginid;  
}  
}
```

## Biller.java

This page contains the properties, getters and setters for Biller fields.

```
package com.amsvy.finalproject.beans;  
  
import org.hibernate.validator.constraints.NotBlank;
```

```
public class Biller {  
    @NotBlank(message = "Data cannot be blank")  
    private int billerid;  
  
    private String name;  
  
    private String address;  
  
    private double totalamount;  
  
    private double amounttopay;  
  
    private int accountid;  
  
  
    public int getBillerid() {  
        return billerid;  
    }  
  
  
    public void setBillerid(int billerid) {  
        this.billerid = billerid;  
    }  
  
  
    public double getTotalamount() {  
        return totalamount;  
    }  
  
  
    public void setTotalamount(double totalamount) {  
        this.totalamount = totalamount;  
    }  
}
```

```
public double getAmounttopay() {  
    return amounttopay;  
}  
  
public void setAmounttopay(double amounttopay) {  
    this.amounttopay = amounttopay;  
}  
  
public int getAccountid() {  
    return accountid;  
}  
  
public void setAccountid(int accountid) {  
    this.accountid = accountid;  
}  
  
public String getName() {  
    return name;  
}  
  
public void setName(String name) {  
    this.name = name;  
}
```

```
public String getAddress() {  
    return address;  
}  
  
public void setAddress(String address) {  
    this.address = address;  
}  
}
```

#### Customer.java

This page contains the properties, getters and setters for Customer fields.

```
package com.amsvy.finalproject.beans;  
  
import org.hibernate.validator.constraints.NotBlank;  
  
public class Customer {  
    @NotBlank(message = "Data cannot be blank")  
    private String customerid;  
  
    public String getCustomerid() {  
        return customerid;  
    }
```

```
public void setCustomerid(String customerid) {  
    this.customerid = customerid;  
}  
  
public String getName() {  
    return name;  
}  
  
public void setName(String name) {  
    this.name = name;  
}  
  
public String getAddress() {  
    return address;  
}  
  
public void setAddress(String address) {  
    this.address = address;  
}  
  
public String getType() {  
    return type;  
}  
  
public void setType(String type) {
```

```
        this.type = type;  
    }  
  
    public String getRegdate() {  
        return regdate;  
    }  
  
    public void setRegdate(String regdate) {  
        this.regdate = regdate;  
    }  
  
    public String getExdate() {  
        return exdate;  
    }  
  
    public void setExdate(String exdate) {  
        this.exdate = exdate;  
    }  
  
    public String getLoginid() {  
        return loginid;  
    }  
  
    public void setLoginid(String loginid) {  
        this.loginid = loginid;  
    }
```

```
}

private String name;

private String address;

private String type;

private String regdate;

private String exdate;

private String loginid;

}
```

## Login.java

This page contains the properties, getters and setters for Login fields.

```
package com.amsvy.finalproject.beans;

import org.hibernate.validator.constraints.NotBlank;

public class Login {

    @NotBlank(message = "Data cannot be blank")

    private String username;

    private String password;

    private String loginid;

    private boolean isadmin;

    public boolean islsadmin() {
```

```
        return isadmin;  
    }  
  
    public void setIsadmin(boolean isadmin) {  
        this.isadmin = isadmin;  
    }  
  
    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;  
    }  
  
    public String getLoginid() {  
        return loginid;  
    }
```

```
}

public void setLoginid(String loginid) {
    this.loginid = loginid;
}

}
```

## Controller

### AccountController.java

This page contains the controller logic for Accounts class.

```
package com.amsvy.finalproject.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.ui.Model;

import org.springframework.ui.ModelMap;

import org.springframework.web.bind.annotationModelAttribute;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMethod;

import com.amsvy.finalproject.beans.Account;
```

```
import com.amsvy.finalproject.dao.AccountDao;

@Controller
public class AccountController {
    @Autowired
    AccountDao dao;// will inject dao from xml file

    /*
     * It displays a form to input data, here "command" is a reserved request
     * attribute which is used to display object data into form
     */
    @RequestMapping("/accountform")
    public String accountform(Model m) {
        m.addAttribute("command", new Account());
        return "accountform";
    }

    // Convert Currency Layout
    @RequestMapping("/currencyform")
    public String currencyform(Model m) {
        m.addAttribute("command", new Account());
        return "currencyform";
    }

    // Convert Currency Layout Non Admin
}
```

```

    @RequestMapping("/currencyform_nonadmin")

    public String currencyform_nonadmin(Model m) {

        m.addAttribute("command", new Account());

        return "currencyform_nonadmin";

    }

// Admin

    @RequestMapping(value = "/currencysave", method = RequestMethod.POST)

    public String currencysave(@ModelAttribute("account") Account account, ModelMap m) {

        double convertedCurrencyValue = dao.currencyconvert(account);

        m.addAttribute("message", convertedCurrencyValue);

        return "redirect:/viewcurrency";// will redirect to viewemp request mapping

    }

// Non Admin

    @RequestMapping(value = "/currencysave_nonadmin", method = RequestMethod.POST)

    public String currencysave_nonadmin(@ModelAttribute("account") Account account,
ModelMap m) {

        double convertedCurrencyValue = dao.currencyconvert(account);

        m.addAttribute("message", convertedCurrencyValue);

        return "redirect:/viewcurrency_nonadmin";// will redirect to viewemp request mapping

    }

// Admin

    @RequestMapping("/viewcurrency")

    public String viewcurrency(Model m) {

```

```

        m.addAttribute("command", new Account());

        return "viewcurrency";
    }

// Non Admin

@RequestMapping("/viewcurrency_nonadmin")
public String viewcurrency_nonadmin(Model m) {
    m.addAttribute("command", new Account());
    return "viewcurrency_nonadmin";
}

/*
 * It saves object into database. The @ModelAttribute puts request data into
 * model object. You need to mention RequestMethod.POST method because default
 * request is GET
 */
@RequestMapping(value = "/accountsave", method = RequestMethod.POST)
public String accountsave(@ModelAttribute("account") Account account) {
    dao.save1(account);
    return "redirect:/viewaccount";// will redirect to viewemp request mapping
}

/* It provides list of employees in model object */
@RequestMapping("/viewaccount")
public String viewmember(Model m) {

```

```
List<Account> list = dao.getAccounts();

m.addAttribute("list", list);

return "viewaccount";

}

// View Logs Layout

@RequestMapping("/viewlogs")

public String viewlogs(Model m) {

    m.addAttribute("command", new Account());

    return "viewlogs";

}

// Biller Logs Layout

@RequestMapping("/billerlogs")

public String billerogs(Model m) {

    m.addAttribute("command", new Account());

    return "billerlogs";

}

// View Account Non Admin Layout (By Login)

@RequestMapping("/viewaccount_nonadmin")

public String viewaccount_nonadmin(Model m, @ModelAttribute("account") Account account) {

    List<Account> list = dao.getAccountsByLogin(account);

    m.addAttribute("list", list);

    return "viewaccount_nonadmin";
```

```

}

// View Account Check Layout

@RequestMapping("/viewaccount_nonadmin_getloginid")
public String viewaccount_nonadmin_getloginid(Model m) {
    m.addAttribute("command", new Account());
    return "viewaccount_nonadmin_getloginid";
}

// View Account CURD

@RequestMapping(value = "/accountsavelc", method = RequestMethod.POST)
public String accountsavelc(Model m, @ModelAttribute("account") Account account) {
    List<Account> list = dao.getAccountsByLogin(account);
    m.addAttribute("list", list);
    return "viewaccount_nonadmin";
}

/*
 * It displays object data into form for the given id. The @PathVariable puts
 * URL data into variable.
 */
@RequestMapping(value = "/editaccount/{accountid}")
public String edit1(@PathVariable int accountid, Model m) {
    Account account = dao.getAccountById(accountid);
    m.addAttribute("command", account);
}

```

```
        return "accounteditform";  
    }  
  
  
    // Edit Account Non Admin Layout  
  
    @RequestMapping(value = "/editaccount_nonadmin/{accountid}")  
    public String editaccount_nonadmin(@PathVariable int accountid, Model m) {  
  
        Account account = dao.getAccountById(accountid);  
  
        m.addAttribute("command", account);  
  
        return "accounteditform_nonadmin";  
    }  
  
  
    // Deposit View  
  
    @RequestMapping(value = "/accountdeposit/{accountid}")  
    public String edit4(@PathVariable int accountid, Model m) {  
  
        Account account = dao.getAccountById(accountid);  
  
        m.addAttribute("command", account);  
  
        return "accountdepositform";  
    }  
  
  
    // Deposit View Non Admin  
  
    @RequestMapping(value = "/accountdeposit_nonadmin/{accountid}")  
    public String accountdeposit_nonadmin(@PathVariable int accountid, Model m) {  
  
        Account account = dao.getAccountById(accountid);  
  
        m.addAttribute("command", account);  
  
        return "accountdepositform_nonadmin";  
    }
```

```
}

// Withdraw View

@RequestMapping(value = "/accountwithdraw/{accountid}")

public String edit2(@PathVariable int accountid, Model m) {

    Account account = dao.getAccountById(accountid);

    m.addAttribute("command", account);

    return "accountwithdrawform";

}

// Withdraw View Non Admin

@RequestMapping(value = "/accountwithdraw_nonadmin/{accountid}")

public String accountwithdraw_nonadmin(@PathVariable int accountid, Model m) {

    Account account = dao.getAccountById(accountid);

    m.addAttribute("command", account);

    return "accountwithdrawform_nonadmin";

}

// Transfer View

@RequestMapping(value = "/accounttransfermoney/{accountid}")

public String edit3(@PathVariable int accountid, Model m) {

    Account account = dao.getAccountById(accountid);

    m.addAttribute("command", account);

    return "accounttransfermoneyform";

}
```

```
// Transfer View Non Admin

@RequestMapping(value = "/accounttransfermoney_nonadmin/{accountid}")

public String accounttransfermoney_nonadmin(@PathVariable int accountid, Model m) {

    Account account = dao.getAccountById(accountid);

    m.addAttribute("command", account);

    return "accounttransfermoneyform_nonadmin";

}

// Interact View

@RequestMapping(value = "/interactmoney/{accountid}")

public String interactmoney(@PathVariable int accountid, Model m) {

    Account account = dao.getAccountById(accountid);

    m.addAttribute("command", account);

    return "interactmoneyform";

}

// Interact View Non Admin

@RequestMapping(value = "/interactmoney_nonadmin/{accountid}")

public String interactmoney_nonadmin(@PathVariable int accountid, Model m) {

    Account account = dao.getAccountById(accountid);

    m.addAttribute("command", account);

    return "interactmoneyform_nonadmin";

}
```

```

/* It updates model object. */

@RequestMapping(value = "/editmsave", method = RequestMethod.POST)
public String editsave1(@ModelAttribute("account") Account account) {

    dao.update1(account);

    return "redirect:/viewaccount";

}

// Edit Account CURD Non Admin

@RequestMapping(value = "/editmsave_nonadmin", method = RequestMethod.POST)
public String editmsave_nonadmin(@ModelAttribute("account") Account account) {

    dao.update1(account);

    return "redirect:/viewaccount_nonadmin_getloginid";

}

// Deposit curd

@RequestMapping(value = "/dpeditmsave", method = RequestMethod.POST)
public String editsave4(@ModelAttribute("account") Account account) {

    // dao.update2(account);

    if (dao.update5(account)) {

        return "redirect:/viewaccount";

    } else {

        return "redirect:/depositerror";

    }

}

```

```

// Deposit curd Non Admin

@RequestMapping(value = "/dpeditmsave_nonadmin", method = RequestMethod.POST)

public String dpeditmsave_nonadmin(@ModelAttribute("account") Account account) {

    // dao.update2(account);

    if (dao.update5(account)) {

        return "redirect:/viewaccount_nonadmin_getloginid";

    } else {

        return "redirect:/depositerror";

    }

}

/* It updates model object. */

// Withdraw curd

@RequestMapping(value = "/wdeditmsave", method = RequestMethod.POST)

public String editsave2(@ModelAttribute("account") Account account) {

    // dao.update2(account);

    if (dao.update2(account)) {

        return "redirect:/viewaccount";

    } else {

        return "redirect:/withdrawerror";

    }

}

// Withdraw curd Non Admin

@RequestMapping(value = "/wdeditmsave_nonadmin", method = RequestMethod.POST)

```

```
public String wdeditmsave_nonadmin(@ModelAttribute("account") Account account) {  
    // dao.update2(account);  
    if (dao.update2(account)) {  
        return "redirect:/viewaccount_nonadmin_getloginid";  
    } else {  
        return "redirect:/withdrawerror";  
    }  
}  
  
// withdrawerror view  
@RequestMapping("/withdrawerror")  
public String withdrawerror(Model m) {  
    List<Account> list = dao.getAccounts();  
    m.addAttribute("list", list);  
    return "withdrawerror";  
}  
  
// Transfer curd  
@RequestMapping(value = "/tmreditmsave", method = RequestMethod.POST)  
public String editsave3(@ModelAttribute("account") Account account) {  
    if (dao.update3(account) && dao.update4(account)) {  
        return "redirect:/viewaccount";  
    } else {  
        return "redirect:/withdrawerror";  
    }  
}
```

```
// dao.update4(account);

}

// Transfer curd Non Admin

@RequestMapping(value = "/tmreditmsave_nonadmin", method = RequestMethod.POST)
public String tmreditmsave_nonadmin(@ModelAttribute("account") Account account) {

    if (dao.update3(account) && dao.update4(account)) {

        return "redirect:/viewaccount_nonadmin_getloginid";
    } else {

        return "redirect:/withdrawerror";
    }

    // dao.update4(account);
}

// Interact curd

@RequestMapping(value = "/emeditmsave", method = RequestMethod.POST)
public String emeditmsave(@ModelAttribute("account") Account account) {

    if (dao.update33(account) && dao.update44(account)) {

        return "redirect:/viewaccount";
    } else {

        return "redirect:/withdrawerror";
    }

    // dao.update4(account);
}
```

```

// Interact curd Non Admin

@RequestMapping(value = "/emeditmsave_nonadmin", method = RequestMethod.POST)

public String emeditmsave_nonadmin(@ModelAttribute("account") Account account) {

    if (dao.update33(account) && dao.update44(account)) {

        return "redirect:/viewaccount_nonadmin_getloginid";

    } else {

        return "redirect:/withdrawerror";

    }

    // dao.update4(account);

}

/* It deletes record for the given id in URL and redirects to /viewemp */

@RequestMapping(value = "/deleteaccount/{accountid}", method = RequestMethod.GET)

public String delete1(@PathVariable int accountid) {

    dao.delete1(accountid);

    return "redirect:/viewaccount";

}

// Delete Account Non Admin Layout

@RequestMapping(value = "/deleteaccount_nonadmin/{accountid}", method =
RequestMethod.GET)

public String deleteaccount_nonadmin(@PathVariable int accountid) {

    dao.delete1(accountid);

    return "redirect:/viewaccount_nonadmin_getloginid";

}

```

## BillerController.java

This page contains the controller logic for Biller class.

```
package com.amsvy.finalproject.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.ui.Model;

import org.springframework.web.bind.annotationModelAttribute;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMethod;

import com.amsvy.finalproject.beans.Biller;

import com.amsvy.finalproject.dao.BillerDao;

@Controller

public class BillerController {

    @Autowired

    BillerDao dao;// will inject dao from xml file

    /*

     * It displays a form to input data, here "command" is a reserved request

     * attribute which is used to display object data into form
```

```

*/
@RequestMapping("/billerform")
public String billerform(Model m) {
    m.addAttribute("command", new Biller());
    return "billerform";
}

/*
 * It saves object into database. The @ModelAttribute puts request data into
 * model object. You need to mention RequestMethod.POST method because default
 * request is GET
*/
@RequestMapping(value = "/billersave", method = RequestMethod.POST)
public String billersave(@ModelAttribute("biller") Biller biller) {
    dao.save1(biller);
    return "redirect:/viewbiller";// will redirect to viewemp request mapping
}

/* It provides list of employees in model object */
@RequestMapping("/viewbiller")
public String viewbiller(Model m) {
    List<Biller> list = dao.getBiller();
    m.addAttribute("list", list);
    return "viewbiller";
}

```

```

// View Biller Non Admin

@RequestMapping("/viewbiller_nonadmin")

public String viewbiller_nonadmin(Model m) {

    List<Biller> list = dao.getBillers();

    m.addAttribute("list", list);

    return "viewbiller_nonadmin";

}

/*
 * It displays object data into form for the given id. The @PathVariable puts
 * URL data into variable.
 */

@RequestMapping(value = "/editbiller/{billerid}")

public String edit1(@PathVariable int billerid, Model m) {

    Biller biller = dao.getBillerById(billerid);

    m.addAttribute("command", biller);

    return "billereditform";

}

// Pay Biller Layout

@RequestMapping(value = "/paybiller/{billerid}")

public String paybiller(@PathVariable int billerid, Model m) {

    Biller biller = dao.getBillerById(billerid);

    m.addAttribute("command", biller);

```

```

        return "paybillerform";

    }

// Pay Biller Non Admin Layout

@RequestMapping(value = "/paybiller_nonadmin/{billerid}")

public String paybiller_nonadmin(@PathVariable int billerid, Model m) {

    Biller biller = dao.getBillerById(billerid);

    m.addAttribute("command", biller);

    return "paybillerform_nonadmin";

}

/* It updates model object. */

@RequestMapping(value = "/editpsave", method = RequestMethod.POST)

public String editsave1(@ModelAttribute("biller") Biller biller) {

    dao.update1(biller);

    return "redirect:/viewbiller";

}

// Pay Biller CURD

@RequestMapping(value = "/editbillsave", method = RequestMethod.POST)

public String editbillsave(@ModelAttribute("biller") Biller biller) {

    dao.updatebilleraacount(biller);

    dao.updateaacountbalance(biller);

    return "redirect:/viewbiller";

}

```

```

// Pay Biller Non Admin CURD

@RequestMapping(value = "/editbillsave_nonadmin", method = RequestMethod.POST)
public String editbillsave_nonadmin(@ModelAttribute("biller") Biller biller) {

    dao.updatebilleraaccount(biller);

    dao.updateaaccountbalance(biller);

    return "redirect:/viewbiller_nonadmin";

}

/* It deletes record for the given id in URL and redirects to /viewemp */

@RequestMapping(value = "/deletebiller/{billerid}", method = RequestMethod.GET)
public String delete1(@PathVariable int billerid) {

    dao.delete1(billerid);

    return "redirect:/viewbiller";

}

```

### CustomerController.java

This page contains the controller logic for Customer class.

```

package com.amsvy.finalproject.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;

```

```
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;

import com.amsvy.finalproject.beans.Customer;
import com.amsvy.finalproject.dao.CustomerDao;

@Controller
public class CustomerController {

    @Autowired
    CustomerDao dao;// will inject dao from xml file

    /*
     * It displays a form to input data, here "command" is a reserved request
     * attribute which is used to display object data into form
     */
    @RequestMapping("/customerform")
    public String showform(Model m) {
        m.addAttribute("command", new Customer());
        return "customerform";
    }

    /*
     * It saves object into database. The @ModelAttribute puts request data into
    
```

```

 * model object. You need to mention RequestMethod.POST method because default
 * request is GET
 */

@RequestMapping(value = "/customersave", method = RequestMethod.POST)
public String save(@ModelAttribute("customer") Customer customer) {
    dao.save(customer);
    return "redirect:/viewcustomer";// will redirect to viewemp request mapping
}

/* It provides list of employees in model object */

@RequestMapping("/viewcustomer")
public String viewemp(Model m) {
    List<Customer> list = dao.getCustomers();
    m.addAttribute("list", list);
    return "viewcustomer";
}

/*
 * It displays object data into form for the given id. The @PathVariable puts
 * URL data into variable.
 */
@RequestMapping(value = "/editcustomer/{customerid}")
public String edit(@PathVariable int customerid, Model m) {
    Customer customer = dao.getCustomerById(customerid);
    m.addAttribute("command", customer);
}

```

```

        return "customereditform";

    }

/* It updates model object. */

@RequestMapping(value = "/editbsave", method = RequestMethod.POST)
public String editsave(@ModelAttribute("customer") Customer customer) {

    dao.update(customer);

    return "redirect:/viewcustomer";

}

/* It deletes record for the given id in URL and redirects to /viewemp */

@RequestMapping(value = "/deletecustomer/{customerid}", method = RequestMethod.GET)
public String delete(@PathVariable int customerid) {

    dao.delete(customerid);

    return "redirect:/viewcustomer";

}

}

```

## LoginController.java

This page contains the controller logic for Login class.

```

package com.amsvy.finalproject.controller;

import java.sql.SQLException;
import java.util.List;

```

```
import javax.validation.Valid;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.validation.Errors;
import org.springframework.web.bind.annotationModelAttribute;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.servlet.mvc.support.RedirectAttributes;

import com.amsvy.finalproject.beans.Login;
import com.amsvy.finalproject.dao.LoginDao;

@Controller
public class LoginController {

    @Autowired
    LoginDao dao;// will inject dao from xml file

    /*
     * It displays a form to input data, here "command" is a reserved request
     * attribute which is used to display object data into form
     */
}
```

```
@RequestMapping("/adduser")
public String adduserform(Model m) {
    m.addAttribute("command", new Login());
    return "adduser";
}

@RequestMapping("/login")
public String loginuserform(Model m) {
    m.addAttribute("command", new Login());
    return "login";
}

@RequestMapping(value = "/addusersave", method = RequestMethod.POST)
public String addusersave(@Valid @ModelAttribute("login") Login login, Errors errors,
    RedirectAttributes redirAttrs) {
    System.out.println(login.getUsername().equals(null) ||
    login.getPassword().equals(null));
    if (errors.hasErrors()) {
        redirAttrs.addFlashAttribute("errors", "The error XYZ occurred.");
        return "redirect:/LoginFailed";
    } else {
        dao.save1(login);
        return "redirect:/login";// will redirect to viewemp request mapping
    }
}
```

```

// login......



    @RequestMapping(value = "/logincheck", method = RequestMethod.POST)
    public String logincheck(@Valid @ModelAttribute("login") Login login, Errors errors,
    RedirectAttributes redirAttrs)

        throws SQLException {

        // dao.loginchecking(login);

        if (dao.loginchecking(login) && dao.adminchecking(login)) {
            return "redirect:/home";

        } else if (dao.loginchecking(login)) {
            return "redirect:/home_nonadmin";
        } else {
            redirAttrs.addFlashAttribute("errors", "The error XYZ occurred.");
            return "redirect:/LoginFailed";
        }
        // return "redirect:/viewuser";// will redirect to viewemp request mapping
    }

    /* It provides list of employees in model object */
    @RequestMapping("/viewuser")
    public String viewuser(Model m) {
        List<Login> list = dao.getUsers();
        m.addAttribute("list", list);
        return "viewuser";
    }

```

```
// home

@RequestMapping("/home")

public String home(Model m) {

    m.addAttribute("command", new Login());

    return "home";

}

// non admin home

@RequestMapping("/home_nonadmin")

public String home_nonadmin(Model m) {

    m.addAttribute("command", new Login());

    return "home_nonadmin";

}

// login failed

@RequestMapping("/LoginFailed")

public String LoginFailed(Model m) {

    m.addAttribute("command", new Login());

    return "LoginFailed";

}

// Edit and Delete User

@RequestMapping(value = "/edituser/{loginid}")

public String edit1(@PathVariable int loginid, Model m) {
```

```

        Login login = dao.getUserById(loginid);

        m.addAttribute("command", login);

        return "usereditform";

    }

/* It updates model object. */

@RequestMapping(value = "/editusave", method = RequestMethod.POST)

public String editsave1(@ModelAttribute("member") Login login) {

    dao.update1(login);

    return "redirect:/viewuser";

}

/* It deletes record for the given id in URL and redirects to /viewemp */

@RequestMapping(value = "/deleteuser/{loginid}", method = RequestMethod.GET)

public String delete1(@PathVariable int loginid) {

    dao.delete1(loginid);

    return "redirect:/viewuser";

}

```

Dao

AccountDao.java

This page contains the CURD logic for Account class.

```
package com.amsvy.finalproject.dao;
```

```
import java.sql.Connection;
import java.sql.Date;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Collections;
import java.util.List;

import javax.sql.DataSource;

import org.springframework.dao.support.DataAccessUtils;
import org.springframework.jdbc.core.BeanPropertyRowMapper;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.namedparam.MapSqlParameterSource;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;

import com.amsvy.finalproject.beans.Account;

public class AccountDao {
    JdbcTemplate template;
```

```

private Object jdbcTemplate;

public void setDataSource(DataSource dataSource) {
    this.jdbcTemplate = new JdbcTemplate(dataSource);
}

public void setTemplate(JdbcTemplate template) {
    this.template = template;
}

public int save1(Account p) {
    String sql = "insert into
account(name,emailid,transferemailid,address,accounttype,balance,depositamount,withdrawamount,tr
ansferaccountid,transferamount,accountdate,accountexdate,fromamount,toamount,loginid)"

        + "values('" + p.getName() + "','" + p.getEmailid() + "','" +
p.getTransferemailid() + "','" +
        + p.getAddress() + "','" + p.getAccounttype() + "','" + p.getBalance() + "," +
+ p.getDepositamount() + "," +
        + p.getWithdrawamount() + "," + p.getTransferaccountid() + "," +
p.getTransferamount() + "," +
        + p.getAccountdate() + "','" + p.getAccountexdate() + "','" +
p.getFromamount() + "," + p.getToamount()

        + ", " + p.getLoginid() + ")";
    return template.update(sql);
}

public int update1(Account p) {
    String sql = "update account set name='" + p.getName() + "', emailid='" + p.getEmailid() +

```

```

+ "", transferemailid="" + p.getTransferemailid() + "", address="" +
p.getAddress() + "", accounttype=""

+ p.getAccounttype() + "",balance=" + p.getBalance() + ",
depositamount=" + p.getDepositamount()

+ " ,withdrawamount=" + p.getWithdrawamount() + ",
transferaccountid=" + p.getTransferaccountid()

+ ", transferamount=" + p.getTransferamount() + ",accountdate="" +
p.getAccountdate()

+ "", accountexpdate="" + p.getAccountexpdate() + "", fromamount=" +
p.getFromamount() + ", toamount="

+ p.getToamount() + , loginid=" + p.getLoginid() + " where accountid=" +
p.getAccountid() + "";

return template.update(sql);

}

// Deposit

public boolean update5(Account p) {

    double newbalance = p.getBalance() + p.getDepositamount();

    if (newbalance >= 500) {

        String sql = "update account set balance=" + newbalance + " where accountid=" +
p.getAccountid() + "";

        template.update(sql);

        return true;
    } else {

        return false;
    }
}

```

```

// Withdraw

public boolean update2(Account p) {

    double newbalance = p.getBalance() - p.getWithdrawamount();

    if (newbalance >= 500) {

        String sql = "update account set balance=" + newbalance + " where accountid="
+ p.getAccountid() + "";

        template.update(sql);

        return true;

    } else {

        return false;

    }

}

// Transfer

public boolean update3(Account p) {

    double newbalance = p.getBalance() - p.getTransferamount();

    if (newbalance >= 500) {

        String sql = "update account set balance=" + newbalance + " where accountid="
+ p.getAccountid() + "";

        int accountidvalue = p.getAccountid();

        double transferamountvalue = p.getTransferamount();

        int toaccountidvalue = p.getTransferaccountid();

        // java.util.Date sysdatevalue = new java.util.Date();

        java.util.Date date = Calendar.getInstance().getTime();

        DateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");

```

```
String strDate = dateFormat.format(date);

String transactionloginitial = "insert into transactionlog
(transactiondate,accountid,toaccountid,transactionamount) values ('"
+ strDate + "", " + accountidvalue + ", " + toaccountidvalue + ","
+ 0 + ")";

template.update(transactionloginitial);

String transactionlog = "insert into transactionlog
(transactiondate,accountid,toaccountid,transactionamount) values ('"
+ strDate + "", " + accountidvalue + ", " + toaccountidvalue + ","
+ transferamountvalue + ")";

if(checkLastTransaction(p.getAccountid()))

{

    template.update(sql);

    template.update(transactionlog);

    return true;

}

else

{

    return false;

}

} else {

    return false;
}
```

```
        }

    }

public boolean checkLastTransaction(int accountid) {

    java.util.Date date = Calendar.getInstance().getTime();

    DateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");

    String strDate = dateFormat.format(date);

    String transactionamount = this.template.queryForObject("SELECT
sum(transactionamount) FROM transactionlog "

        + "WHERE accountid= ? and transactiondate = ?",

        new Object[] { accountid,strDate }, String.class);

    Double transactionamountvalue = Double.parseDouble(transactionamount);

    if(transactionamountvalue>=1000)

    {

        return false;

    }

    else

    {

        return true;

    }

}

public String findBalanceByld(int transferaccountid) {

    String blanacebyid = this.template.queryForObject("SELECT balance FROM account
WHERE accountid= ?",


```

```
        new Object[] { transferaccountid }, String.class);

    return blanacebyid;

}

public boolean update4(Account p) {

    String balanceOFtransferacct = findBalanceById(p.getTransferaccountid());

    Double balanceOFtransferacctnew = Double.parseDouble(balanceOFtransferacct);

    double newbalancetrfacct = balanceOFtransferacctnew + p.getTransferamount();

    // String newbalancetrfacct = "select balance from account where
    // accountid="+p.getTransferaccountid()+" "+ p.getTransferamount();

    String sql = "update account set balance=" + newbalancetrfacct + " where accountid=" +
p.getTransferaccountid()

        + "";

    template.update(sql);

    return true;

}

// Interact

public boolean update33(Account p) {

    double newbalance = p.getBalance() - p.getTransferamount();

    if (newbalance >= 500) {

        String sql = "update account set balance=" + newbalance + " where accountid="
+ p.getAccountid() + "";
```

```

        template.update(sql);

        return true;

    } else {

        return false;

    }

}

public String findBalanceByIdNew(String transferemailid) {

    String blanacebyemailid = this.template.queryForObject("SELECT balance FROM account
WHERE emailid= ?",
new Object[] { transferemailid }, String.class);

    return blanacebyemailid;

}

public boolean update44(Account p) {

    String balanceOFtransferacct = findBalanceByIdNew(p.getTransferemailid());

    Double balanceOFtransferacctnew = Double.parseDouble(balanceOFtransferacct);

    double newbalancetrfact = balanceOFtransferacctnew + p.getTransferamount();

    // String newbalancetrfact = "select balance from account where
    // accountid="+p.getTransferaccountid()+" "+ p.getTransferamount();

    String sql = "update account set balance=" + newbalancetrfact + " where emailid=" +
p.getTransferemailid()

    + """;
}

```

```
template.update(sql);

return true;

}

public int delete1(int accountid) {

    String sql = "delete from account where accountid=" + accountid + "";

    return template.update(sql);

}

public Account getAccountById(int accountid) {

    String sql = "select * from account where accountid=?";

    return template.queryForObject(sql, new Object[] { accountid },

        new BeanPropertyRowMapper<Account>(Account.class));

}

public List<Account> getAccounts() {

    return template.query("select * from account", new RowMapper<Account>() {

        public Account mapRow(ResultSet rs, int row) throws SQLException {

            Account e = new Account();

            e.setAccountid(rs.getInt(1));

            e.setName(rs.getString(2));

            e.setEmailid(rs.getString(3));

            e.setTransferemailid(rs.getString(4));

            e.setAddress(rs.getString(5));

        }

    });

}
```

```

        e.setAccounttype(rs.getString(6));

        e.setBalance(rs.getDouble(7));

        e.setDepositamount(rs.getDouble(8));

        e.setWithdrawamount(rs.getDouble(9));

        e.setTransferaccountid(rs.getInt(10));

        e.setTransferamount(rs.getDouble(11));

        e.setAccountdate(rs.getString(12));

        e.setAccountexpdate(rs.getString(13));

        e.setFromamount(rs.getDouble(14));

        e.setToamount(rs.getDouble(15));

        e.setLoginid(rs.getInt(16));

        return e;

    }

});

}

public List<Account> getAccountsByLogin(Account p) {

    return template.query("select * from account where loginid=" + p.getLoginid() + "", new
RowMapper<Account>() {

    public Account mapRow(ResultSet rs, int row) throws SQLException {

        Account e = new Account();

        e.setAccountid(rs.getInt(1));

        e.setName(rs.getString(2));

        e.setEmailid(rs.getString(3));

        e.setTransferemailid(rs.getString(4));

```

```
        e.setAddress(rs.getString(5));

        e.setAccounttype(rs.getString(6));

        e.setBalance(rs.getDouble(7));

        e.setDepositamount(rs.getDouble(8));

        e.setWithdrawamount(rs.getDouble(9));

        e.setTransferaccountid(rs.getInt(10));

        e.setTransferamount(rs.getDouble(11));

        e.setAccountdate(rs.getString(12));

        e.setAccountexpdate(rs.getString(13));

        e.setFromamount(rs.getDouble(14));

        e.setToamount(rs.getDouble(15));

        e.setLoginid(rs.getInt(16));

        return e;

    }

});

}

public void accountcheck(Account account) {

    // TODO Auto-generated method stub

}

public double currencyconvert(Account p) {

    // TODO Auto-generated method stub

    double convertedCurrency;
```

```

        double toamountselection = p.getToamount();

        if (toamountselection == 1) {

            convertedCurrency = 62.55 * p.getFromamount();

        } else if (toamountselection == 2) {

            convertedCurrency = 5.75 * p.getFromamount();

        } else if (toamountselection == 3) {

            convertedCurrency = 10.70 * p.getFromamount();

        } else if (toamountselection == 4) {

            convertedCurrency = 2.75 * p.getFromamount();

        } else if (toamountselection == 5) {

            convertedCurrency = 0.05 * p.getFromamount();

        } else if (toamountselection == 6) {

            convertedCurrency = 2.95 * p.getFromamount();

        } else if (toamountselection == 7) {

            convertedCurrency = 14.75 * p.getFromamount();

        } else {

            convertedCurrency = p.getFromamount();

        }

        return convertedCurrency;

    }

}

```

## BillerDao.java

This page contains the CURD logic for Biller class.

```
package com.amsvy.finalproject.dao;
```

```
import java.sql.ResultSet;
import java.sql.SQLException;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.List;
import org.springframework.jdbc.core.BeanPropertyRowMapper;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.RowMapper;

import com.amsvy.finalproject.beans.Biller;

public class BillerDao {

    JdbcTemplate template;

    public void setTemplate(JdbcTemplate template) {
        this.template = template;
    }

    public int save1(Biller p) {
        String sql = "insert into biller(name,address,totalamount) values('" + p.getName() + "','" +
+ p.getAddress() +
                + "','" + p.getTotalamount() + "')";
        return template.update(sql);
    }
}
```

```
}

public int update1(Biller p) {

    String sql = "update biller set name='" + p.getName() + "', address='" + p.getAddress() +
    "",totalamount="

        + p.getTotalamount() + " where billerid=" + p.getBillerid() + "";

    return template.update(sql);

}

public int delete1(int billerid) {

    String sql = "delete from biller where billerid=" + billerid + "";

    return template.update(sql);

}

public Biller getBillerById(int billerid) {

    String sql = "select * from biller where billerid=?";

    return template.queryForObject(sql, new Object[] { billerid }, new
BeanPropertyRowMapper<Biller>(Biller.class));

}

public List<Biller> getBillers() {

    return template.query("select * from biller", new RowMapper<Biller>() {

        public Biller mapRow(ResultSet rs, int row) throws SQLException {

            Biller e = new Biller();

            e.setBillerid(rs.getInt(1));

            e.setName(rs.getString(2));

            e.setAddress(rs.getString(3));

            e.setTotalamount(rs.getDouble(4));

            return e;
        }
    });
}
```

```
        e.setAddress(rs.getString(3));

        e.setTotalamount(rs.getDouble(4));

    }

    return e;
}

});

}

//bill payment

public int updatebilleraacount(Biller p) {

    double newbalance = p.getTotalamount() + p.getAmounttopay();

    String sql = "update biller set totalamount=" + newbalance + " where billerid=" +
p.getBillerid() + "";

    return template.update(sql);
}

//deduct paid bill from respective account

public int updateaaccountbalance(Biller p) {

    String amountofpayer = findBalanceById(p.getAccountid());

    Double amountofpayervalue = Double.parseDouble(amountofpayer);

    double newaccbalance = amountofpayervalue - p.getAmounttopay();

    String sql = "update account set balance=" + newaccbalance + " where accountid=" +
p.getAccountid() + "";
```

```

        java.util.Date date = Calendar.getInstance().getTime();

        DateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");

        String strDate = dateFormat.format(date);

        int billeridvalue = p.getBillerid();

        int accountidvalue = p.getAccountid();

        String billerlog = "insert into billerlog (transactiondate,billerid,accountid) values ('"
            + strDate + "', " + billeridvalue + ", " + accountidvalue + ")";

        template.update(billerlog);

        return template.update(sql);

    }

private String findBalanceByld(int accountid) {

    String blanacebyid = this.template.queryForObject("SELECT balance FROM account
WHERE accountid= ?",
        new Object[] { accountid }, String.class);

    return blanacebyid;

}

```

## CustomerDao.java

This page contains the CURD logic for Customer class.

```

package com.amsvy.finalproject.dao;

import java.sql.ResultSet;

```

```
import java.sql.SQLException;
import java.util.List;
import org.springframework.jdbc.core.BeanPropertyRowMapper;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.jdbc.core.RowMapper;

import com.amsvy.finalproject.beans.Customer;

public class CustomerDao {

    JdbcTemplate template;

    public void setTemplate(JdbcTemplate template) {
        this.template = template;
    }

    public int save(Customer p) {
        String sql = "insert into customer (name,address,type,regdate,expdate,loginid) " +
        "values(" + p.getName() +
                    + "','" + p.getAddress() + "','" + p.getType() + "','" + p.getRegdate() + "','" +
                    + p.getExpdate() + "','" +
                    + p.getLoginid() + ")";
        return template.update(sql);
    }

    public int update(Customer p) {
```

```

        String sql = "update customer set name='" + p.getName() + "', address='" +
p.getAddress() + "',type='"
                + p.getType() + "',regdate='" + p.getRegdate() + "',expdate='" +
p.getExpdate() + "',loginid='"
                + p.getLoginid() + "' where customerid=" + p.getCustomerid() + """;
        return template.update(sql);
    }

public int delete(int customerid) {
    String sql = "delete from customer where customerid=" + customerid + "";
    return template.update(sql);
}

public Customer getCustomerById(int customerid) {
    String sql = "select * from customer where customerid=?";
    return template.queryForObject(sql, new Object[] { customerid },
            new BeanPropertyRowMapper<Customer>(Customer.class));
}

public List<Customer> getCustomers() {
    return template.query("select * from customer", new RowMapper<Customer>() {
        public Customer mapRow(ResultSet rs, int row) throws SQLException {
            Customer e = new Customer();
            e.setCustomerid(rs.getString(1));
            e.setName(rs.getString(2));
            e.setAddress(rs.getString(3));
        }
    });
}

```

```
        e.setType(rs.getString(4));

        e.setRegdate(rs.getString(5));

        e.setExupdate(rs.getString(6));

        e.setLoginid(rs.getString(7));



    return e;

}

});

}

}
```

## LoginDao.java

This page contains the CURD logic for Login class.

```
package com.amsvy.finalproject.dao;



import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.List;

import org.springframework.jdbc.core.BeanPropertyRowMapper;
import org.springframework.jdbc.core.JdbcTemplate;
```

```
import org.springframework.jdbc.core.RowMapper;

import org.springframework.jdbc.core.namedparam.BeanPropertySqlParameterSource;
import org.springframework.jdbc.core.namedparam.SqlParameterSource;

import com.amsvy.finalproject.beans.Login;

public class LoginDao {

    JdbcTemplate template;

    private Object namedParameterJdbcTemplate;

    public void setTemplate(JdbcTemplate template) {
        this.template = template;
    }

    public int save1(Login p) {
        String sql = "insert into login(username,password,isadmin) values('" + p.getUsername() +
        "','" + p.getPassword() +
        + "','" + p.isIsadmin() + ")";

        return template.update(sql);
    }

    @SuppressWarnings("null")

    public boolean loginchecking(Login p) throws SQLException {
        Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/Final", "root", "root");
```

```

// String sql="select * from login where username = "+p.getUsername()+" and
// password = "+p.getPassword()+"";
String sql = "select * from login where username = '" + p.getUsername() + "' and
password = '" + p.getPassword()
+ "'";
PreparedStatement ps = connection.prepareStatement("select * from login where
username = '" + p.getUsername())
+ "' and password = '" + p.getPassword() + "'");

ResultSet rs = ps.executeQuery();
boolean status = rs.next();
return status;
}

// admin check
@SuppressWarnings("null")
public boolean adminchecking(Login p) throws SQLException {
    Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/Final", "root", "root");
    String adminUsername = "admin";
    // String sql="select * from login where username = "+p.getUsername()+" and
// password = "+p.getPassword()+"";
    String sql = "select * from login where username = '" + adminUsername + "' and
password = '" + p.getPassword()
+ "'";
}

```

```
PreparedStatement ps = connection.prepareStatement(sql);

ResultSet rs = ps.executeQuery();
boolean status = rs.next();
return status;
}

public List<Login> getUsers() {
    return template.query("select * from login", new RowMapper<Login>() {
        public Login mapRow(ResultSet rs, int row) throws SQLException {
            Login e = new Login();
            e.setLoginid(rs.getString(1));
            e.setUsername(rs.getString(2));
            e.setPassword(rs.getString(3));
            e.setIsadmin(rs.getBoolean(4));
            return e;
        }
    });
}

public int update1(Login p) {
    String sql = "update login set username='" + p.getUsername() + "', password='" +
    p.getPassword() +
    "' where loginid=" + p.getLoginid() + "';
```

```

        return template.update(sql);

    }

public int delete1(int loginid) {

    String sql = "delete from login where loginid=" + loginid + "";
    return template.update(sql);

}

public Login getUserById(int loginid) {

    String sql = "select * from login where loginid=?";
    return template.queryForObject(sql, new Object[] { loginid }, new
BeanPropertyRowMapper<Login>(Login.class));
}

}

```

JSP

/Final\_Project/src/main/webapp/WEB-INF/jsp

/Final\_Project/src/main/webapp/WEB-INF/jsp/accountdepositform\_nonadmin.jsp

User would deposit money into account using this form. This is designed only for non admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
    <head>
        <meta charset="ISO-8859-1">
        <title>Account Deposit Form Non Admin</title>

```

```
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
}
```

```
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
/*
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;
```

```
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
@media screen and (max-width: 300px) {  
span.psw {  
display: block;  
float: none;  
}  
.cancelbtn {  
width: 100%;  
}  
}  
  
/* menu */
```

```
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;
```

```
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;  
}  
  
.dropdown-content {  
display: none;  
position: absolute;  
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;  
display: block;  
text-align: left;
```

```
}

.dropdown-content a:hover {
    background-color: #ddd;
}

.dropdown:hover .dropdown-content {
    display: block;
}

.imgcontainer {
    text-align: center;
    margin: 10px 0 10px 0;
    padding: 2px 2px 2px 2px;
}

</style>

<body>

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>Final Project</p>
    <p>CSD-4464 Programming Java EE</p>
</div>

<div class="container">
```

```
<div class="navbar">

    <div class="dropdown">
        <button class="dropbtn">Home</button>
        <div class="dropdown-content">
            <a href="home">Home Page</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Account</button>
        <div class="dropdown-content">
            <a href="viewaccount_nonadmin_getloginid">View
            Account</a> <a
                href="currencyform_nonadmin">Convert Currency</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Biller</button>
        <div class="dropdown-content">
            <a href="viewbiller_nonadmin">View Biller</a>
        </div>
    </div>
```

```

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

<div class="imgcontainer">

</div>

<h1>Deposit Money</h1>

<form:form method="POST" action="/Final_Project/dpeditmsave_nonadmin">

    <table class="containerCenter" width="40%">

        <tr>

            <td></td>

            <td><form:hidden path="accountid" /></td>

        </tr>

        <tr>

            <td>Current Balance :</td>

            <td><form:input type="number" path="balance"
required="required" /></td>

        </tr>

```

```

<tr>

    <td>Enter Amount :</td>

    <td><form:input type="number" path="depositamount"
                   required="required" /></td>

</tr>

<tr>

    <td></td>

    <td><input type="submit" value="Deposit Amount" /></td>

</tr>

</table>

</form:form>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>

        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal

    </p>
</div>

```

```
Kumar C0793379

</p>

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</div>

</body>

</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/accountdepositform.jsp

User would deposit money into account using this form. This is designed only for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Account Deposit Form</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";
```

```
.center {  
    display: block;  
    margin-top: 20px;  
    margin-bottom: 20px;  
    margin-left: auto;  
    margin-right: auto;  
    width: 50%;  
}  
  
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;
```

```
margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
/* menu */  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;
```

```
color: white;  
text-align: center;  
padding: 14px 16px;  
text-decoration: none;  
}  
  
.dropdown {  
float: left;  
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
font-size: 16px;  
border: none;  
outline: none;  
color: white;  
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;  
}
```

```
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;
```

```
}

.imgcontainer {
    text-align: center;
    margin: 10px 0 10px 0;
    padding: 2px 2px 2px 2px;
}

</style>

<body>

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>Final Project</p>
    <p>CSD-4464 Programming Java EE</p>
</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">
            <button class="dropbtn">Home</button>
            <div class="dropdown-content">
                <a href="home">Home Page</a>
            </div>
        </div>
    </div>
</div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Account</button>
    <div class="dropdown-content">
        <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Biller</button>
    <div class="dropdown-content">
        <a href="billerform">Add Biller</a> <a href="viewbiller">View Biller</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Customer</button>
    <div class="dropdown-content">
        <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>
    </div>
</div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">User</button>
    <div class="dropdown-content">
        <a href="adduser">Add User</a> <a href="viewuser">View
User</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logs</button>
    <div class="dropdown-content">
        <a href="viewlogs">View Logs</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
```

```
  
</div>  
  
<h1>Deposit Money</h1>  
  
<form:form method="POST" action="/Final_Project/dpeditmsave">  
  
    <table class="containerCenter" width="30%">  
  
        <tr>  
  
            <td></td>  
  
            <td><form:hidden path="accountid" /></td>  
  
        </tr>  
  
        <tr>  
  
            <td>Current Balance :</td>  
  
            <td><form:input type="number" path="balance"  
required="required" /></td>  
  
        </tr>  
  
        <tr>  
  
            <td>Enter Amount :</td>  
  
            <td><form:input type="number" path="depositamount"  
required="required" /></td>  
  
        </tr>  
  
        <tr>  
  
            <td></td>  
  
            <td><input type="submit" value="Deposit Amount" /></td>  
    </table>
```

```

        </tr>

    </table>

</form:form>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>

```

User would edit their accounts using this form. This is designed only for non admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Account Edit Form Non Admin</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}
```

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {
```

```
padding: 16px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
span.psw {  
display: block;
```

```
    float: none;  
}  
  
.cancelbtn {  
    width: 100%;  
}  
  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
  
.dropdown {  
    float: left;  
    overflow: hidden;
```

```
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}
```

```
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}
```

```
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}
```

```
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
</style>
```

```
<body>

    <div class="containerCenter" style="background-color: #f1f1f1">

        <p>Final Project</p>
        <p>CSD-4464 Programming Java EE</p>

    </div>

    <div class="container">

        <div class="navbar">

            <div class="dropdown">

                <button class="dropbtn">Home</button>
                <div class="dropdown-content">
                    <a href="home">Home Page</a>
                </div>
            </div>

            <div class="dropdown">
                <button class="dropbtn">Account</button>
                <div class="dropdown-content">
                    <a href="viewaccount_nonadmin_getloginid">View
                    Account</a> <a
                        href="currencyform_nonadmin">Convert Currency</a>
                </div>
            </div>
        </div>
    </div>

```

```
<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="viewbiller_nonadmin">View Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

</div>

<div class="imgcontainer">

</div>

<h1>Edit Account</h1>

<form:form method="POST" action="/Final_Project/editmsave_nonadmin">

    <table class="containerCenter" width="40%">

        <tr>

            <td></td>
```

```
<td><form:hidden path="accountid" /></td>

</tr>

<tr>

    <td>Name :</td>

    <td><form:input path="name" /></td>

</tr>

<tr>

    <td>Email :</td>

    <td><form:input path="emailid" type="email"
required="required" /></td>

</tr>

<tr>

    <td>Address :</td>

    <td><form:input path="address" /></td>

</tr>

<tr>

    <td>Account Type :</td>

    <td><form:input path="accounttype" /></td>

</tr>

<tr>

    <td>Balance :</td>

    <td><form:input type="number" path="balance" /></td>

</tr>

<tr>

    <td>Withdraw Amount :</td>
```

```
<td><form:input type="number" path="withdrawamount"
/></td>

</tr>

<tr>

<td>Account Membership Date (Format: YYYY-MM-DD) :</td>

<td><form:input type="date" path="accountdate" /></td>

</tr>

<tr>

<td>Account Expiration Date (Format: YYYY-MM-DD) :</td>

<td><form:input type="date" path="accountexpdate" /></td>

</tr>

<tr>

<td>Login ID :</td>

<td><form:input type="number" path="loginid" /></td>

</tr>

<br>

<tr>

<td></td>

<td><input type="submit" value="Edit Account" /></td>

</tr>

</table>

</form:form>

</div>

<br />

<br />
```

```

<a href="index.jsp">Back to Main Page</a>

<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379

    </p>
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</div>

</body>

</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/accounteditform.jsp

User would edit their accounts using this form. This is designed only for admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

```

```
<meta charset="ISO-8859-1">

<title>Account Edit Form</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
```

```
}

.cancelbtn {
    width: auto;
    padding: 10px 18px;
    background-color: #f44336;
}

.imgcontainer {
    text-align: center;
    margin: 24px 0 12px 0;
}

img.avatar {
    width: 10%;
    border-radius: 25%;
}

.container {
    padding: 16px;
    margin-left: auto;
    margin-right: auto;
    text-align: center;
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}
```

```
/* menu */

.navbar {
    overflow: hidden;
    background-color: #333;
}

.navbar a {
    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

.dropdown {
    float: left;
    overflow: hidden;
}

.dropdown .dropbtn {
    font-size: 16px;
    border: none;
    outline: none;
}
```

```
color: white;  
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;  
}  
  
.dropdown-content {  
display: none;  
position: absolute;  
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;
```

```
display: block;  
text-align: left;  
}  
  
.dropdown-content a:hover {  
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
display: block;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<b>body</b>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>
```

```
<div class="container">

    <div class="navbar">

        <div class="dropdown">
            <button class="dropbtn">Home</button>
            <div class="dropdown-content">
                <a href="home">Home Page</a>
            </div>
        </div>

        <div class="dropdown">
            <button class="dropbtn">Account</button>
            <div class="dropdown-content">
                <a href="accountform">Create Account</a> <a href="viewaccount">View
                Account</a> <a href="currencyform">Convert
                Currency</a>
            </div>
        </div>

        <div class="dropdown">
            <button class="dropbtn">Biller</button>
            <div class="dropdown-content">
                <a href="billerform">Add Biller</a> <a href="viewbiller">View
                Biller</a>
            </div>
        </div>
    </div>
</div>
```

```
Biller</a>

</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View User</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Edit Account</h1>
<form:form method="POST" action="/Final_Project/editmsave">
    <table class="containerCenter" width="40%">
        <tr>
            <td></td>
            <td><form:hidden path="accountid" /></td>
        </tr>
        <tr>
            <td>Name :</td>
            <td><form:input path="name" /></td>
        </tr>
    </table>
</form:form>
```

```
</tr>

<tr>

    <td>Email :</td>

    <td><form:input path="emailid" type="email"
        required="required" /></td>

</tr>

<tr>

    <td>Address :</td>

    <td><form:input path="address" /></td>

</tr>

<tr>

    <td>Account Type :</td>

    <td><form:input path="accounttype" /></td>

</tr>

<tr>

    <td>Balance :</td>

    <td><form:input type="number" path="balance" /></td>

</tr>

<tr>

    <td>Withdraw Amount :</td>

    <td><form:input type="number" path="withdrawamount"
/></td>

</tr>

<tr>

    <td>Account Membership Date (Format: YYYY-MM-DD) :</td>

    <td><form:input type="date" path="accountdate" /></td>


```

```
</tr>

<tr>

    <td>Account Expiration Date (Format: YYYY-MM-DD) :</td>
    <td><form:input type="date" path="accountexpdate" /></td>
</tr>

<tr>

    <td>Login ID :</td>
    <td><form:input type="number" path="loginid" /></td>
</tr>

<tr>
    <td></td>
    <td><input type="submit" value="Edit Account" /></td>
</tr>

</table>
</form:form>
</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />
```

```

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>

        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana

            Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
            Kumar C0793379

    </p>

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</div>

</body>

</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/accountform.jsp

User would add a new account using this form. This is designed only for admin user. Non admin user won't be able to create an account by themselves.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

    <head>

        <meta charset="ISO-8859-1">

        <title>Account Form</title>

    </head>

    <body>

        <form action="account" method="post">

            <table border="1">

```

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
```

```
<style>
```

```
@charset "ISO-8859-1";
```

```
.center {
```

```
    display: block;
```

```
    margin-top: 20px;
```

```
    margin-bottom: 20px;
```

```
    margin-left: auto;
```

```
    margin-right: auto;
```

```
    width: 50%;
```

```
}
```

```
body {
```

```
    font-family: Arial, Helvetica, sans-serif;
```

```
}
```

```
form {
```

```
    border: 3px solid #f1f1f1;
```

```
}
```

```
.cancelbtn {
```

```
    width: auto;
```

```
    padding: 10px 18px;
```

```
background-color: #f44336;  
}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;
```

```
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;
```

```
}

.navbar a {
    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

.dropdown {
    float: left;
    overflow: hidden;
}

.dropdown .dropbtn {
    font-size: 16px;
    border: none;
    outline: none;
    color: white;
    padding: 14px 16px;
    background-color: inherit;
    font-family: inherit;
    margin: 0;
}
```

```
}

.navbar a:hover, .dropdown:hover .dropbtn {
    background-color: red;
}

.dropdown-content {
    display: none;
    position: absolute;
    background-color: #f9f9f9;
    min-width: 160px;
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);
    z-index: 1;
}

.dropdown-content a {
    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.dropdown-content a:hover {
```

```
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
    <div class="containerCenter" style="background-color: #f1f1f1">  
        <p>Final Project</p>  
        <p>CSD-4464 Programming Java EE</p>  
    </div>  
  
    <div class="container">  
        <div class="navbar">
```

```
<div class="dropdown">

    <button class="dropbtn">Home</button>

    <div class="dropdown-content">

        <a href="home">Home Page</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="accountform">Create Account</a> <a href="viewaccount">View

        Account</a> <a href="currencyform">Convert

        Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View

        Biller</a>

    </div>

</div>
```

```
<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View User</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>
```

```
<div class="dropdown-content">  
    <a href="index.jsp">Logout</a>  
</div>  
</div>  
  
<div class="imgcontainer">  
      
</div>  
  
<h1>Add New Account</h1>  
<form:form method="post" action="accountsave">  
    <table class="containerCenter" width="40%">  
        <tr>  
            <td>Name :</td>  
            <td><form:input path="name" required="required" /></td>  
        </tr>  
        <tr>  
            <td>Email :</td>  
            <td><form:input path="emailid" type="email"  
                required="required" /></td>  
        </tr>  
        <tr>  
            <td>Address :</td>
```

```
<td><form:input path="address" required="required" /></td>

</tr>

<tr>

<td>Account Type :</td>

<td><form:input path="accounttype" required="required"
/></td>

</tr>

<tr>

<td>Balance :</td>

<td><form:input type="number" path="balance"
required="required" /></td>

</tr>

<tr>

<td>Account Membership Date (Format: YYYY-MM-DD) :</td>

<td><form:input type="date" path="accountdate"
required="required" /></td>

</tr>

<tr>

<td>Account Expiration Date (Format: YYYY-MM-DD) :</td>

<td><form:input type="date" path="accountexpdate"
required="required" /></td>

</tr>

<tr>

<td>Login ID :</td>

<td><form:input type="number" path="loginid"
required="required" /></td>
```

```
</tr>

<tr>

    <td></td>

    <td><input type="submit" value="Register Account" /></td>

</tr>

</table>

</form:form>
```

```
</div>
```

```
<br />
```

```
<br />
```

```
<a href="index.jsp">Back to Main Page</a>
```

```
<br />
```

```
<br />
```

```
<div class="containerCenter" style="background-color: #f1f1f1">
```

```
<p>
```

```
    Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla  
C0796429<br>Meghana
```

```
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal  
        Kumar C0793379
```

```
</p>
```

```
    &copy W2022 GROUP E
```

```
</div>

</body>

</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/accounttransfermoneyform\_nonadmin.jsp

User would transfer money from one account to another account using this form. This is designed only for non admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
    <head>
        <meta charset="ISO-8859-1">
        <title>Account Transfer Money Form Non Admin</title>
    </head>

    <%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
    <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

    <style>
        @charset "ISO-8859-1";

        .center {
            display: block;
            margin-top: 20px;
        }
    </style>
```

```
margin-bottom: 20px;  
margin-left: auto;  
margin-right: auto;  
width: 50%;  
}  
  
body {  
font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
width: auto;  
padding: 10px 18px;  
background-color: #f44336;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;
```

```
}

/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {

        display: block;
        float: none;
    }

    .cancelbtn {

        width: 100%;
    }
}

/* menu */

.navbar {

    overflow: hidden;
    background-color: #333;
}

.navbar a {

    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
}
```

```
text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;
```

```
position: absolute;  
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;  
display: block;  
text-align: left;  
}  
  
.dropdown-content a:hover {  
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
display: block;  
}  
  
.imgcontainer {
```

```
text-align: center;  
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="navbar">  
        <div class="dropdown">  
            <button class="dropbtn">Home</button>  
            <div class="dropdown-content">  
                <a href="home">Home Page</a>  
            </div>  
        </div>  
        <div class="dropdown">  
    
```

```
<button class="dropbtn">Account</button>

<div class="dropdown-content">

    <a href="viewaccount_nonadmin_getloginid">View
Account</a> <a

        href="currencyform_nonadmin">Convert Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="viewbiller_nonadmin">View Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

<div class="imgcontainer">

</div>

<h1>Transfer Money</h1>

<form:form method="POST" action="/Final_Project/tmeditmsave_nonadmin">

<table class="containerCenter" width="40%">

<tr>

<td></td>

<td><form:hidden path="accountid" /></td>

</tr>

<tr>

<td>Current Balance :</td>

<td><form:input type="number" path="balance"
required="required" /></td>

</tr>

<tr>

<td>Enter Transfer Account No :</td>

<td><form:input type="number" path="transferaccountid"
required="required" /></td>

</tr>

<tr>

<td>Enter Transfer Amount :</td>

<td><form:input type="number" path="transferamount"
required="required" /></td>

</tr>
```

```
<tr>

    <td></td>

    <td><input type="submit" value="Transfer Amount" /></td>

</tr>

</table>

</form:>form>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>

        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
Kumar C0793379

    </p>

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</div>
```

```
</body>  
</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/accounttransfermoneyform.jsp

User would transfer money from one account to another account using this form. This is designed only for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"  
    pageEncoding="ISO-8859-1"%>  
  
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
<meta charset="ISO-8859-1">  
  
<title>Account Transfer Money Form</title>  
  
</head>  
  
  
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>  
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>  
  
  
<style>  
  
@charset "ISO-8859-1";  
  
  
.center {  
    display: block;  
    margin-top: 20px;  
    margin-bottom: 20px;
```

```
margin-left: auto;  
margin-right: auto;  
width: 50%;  
}  
  
  
body {  
font-family: Arial, Helvetica, sans-serif;  
}  
  
  
form {  
border: 3px solid #f1f1f1;  
}  
  
  
.cancelbtn {  
width: auto;  
padding: 10px 18px;  
background-color: #f44336;  
}  
  
  
.imgcontainer {  
text-align: center;  
margin: 24px 0 12px 0;  
}  
  
  
img.avatar {
```

```
width: 10%;  
border-radius: 25%;  
}  
  
.container {  
padding: 16px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}
```

```
/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {

        display: block;

        float: none;

    }

    .cancelbtn {

        width: 100%;

    }

}

/* menu */

.navbar {

    overflow: hidden;

    background-color: #333;

}

.navbar a {

    float: left;

    font-size: 16px;

    color: white;

    text-align: center;

    padding: 14px 16px;

    text-decoration: none;
```

```
}

.dropdown {
    float: left;
    overflow: hidden;
}

.dropdown .dropbtn {
    font-size: 16px;
    border: none;
    outline: none;
    color: white;
    padding: 14px 16px;
    background-color: inherit;
    font-family: inherit;
    margin: 0;
}

.navbar a:hover, .dropdown:hover .dropbtn {
    background-color: red;
}

.dropdown-content {
    display: none;
    position: absolute;
}
```

```
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;
```

```
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<script>  
  
var date = new Date();  
  
var currentDate = date.toISOString().slice(0, 10);  
  
var currentTime = date.getHours() + ':' + date.getMinutes();  
  
  
document.getElementById('date').value = currentDate;  
  
</script>  
  
  
<body>  
  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
  
    <p>Final Project</p>  
  
    <p>CSD-4464 Programming Java EE</p>  
  
</div>  
  
  
<div class="container">  
  
  
    <div class="navbar">  
  
        <div class="dropdown">  
  
            <button class="dropbtn">Home</button>
```

```
<div class="dropdown-content">

    <a href="home">Home Page</a>

</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="accountform">Create Account</a> <a href="viewaccount">View

        Account</a> <a href="currencyform">Convert

        Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View

        Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">
```

```
<a href="customerform">Add Customer</a> <a  
href="viewcustomer">View  
Customer</a>  
</div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">User</button>  
    <div class="dropdown-content">  
        <a href="adduser">Add User</a> <a href="viewuser">View  
User</a>  
    </div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Logs</button>  
    <div class="dropdown-content">  
        <a href="viewlogs">View Logs</a>  
    </div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Logout</button>  
    <div class="dropdown-content">  
        <a href="index.jsp">Logout</a>  
    </div>
```

```
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Transfer Money</h1>

<form:form method="POST" action="/Final_Project/tmeditmsave">

    <table class="containerCenter" width="40%">

        <tr>

            <td></td>

            <td><form:hidden path="accountid" /></td>

        </tr>

        <tr>

            <td>Current Balance :</td>

            <td><form:input type="number" path="balance"
                required="required" /></td>

        </tr>

        <tr>

            <td>Enter Transfer Account No :</td>

            <td><form:input type="number" path="transferaccountid"
                required="required" /></td>

        </tr>

    </table>
</form:form>
```

```

<tr>

    <td>Enter Transfer Amount :</td>

    <td><form:input type="number" path="transferamount"
        required="required" /></td>

</tr>

<tr>

    <td></td>

    <td><input type="submit" value="Transfer Amount" /></td>

</tr>

</table>

</form:form>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>

        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
    </p>
</div>

```

Kumar C0793379

```
</p>

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</div>

</body>

</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/accountwithdrawform\_nonadmin.jsp

User would withdraw money from their account using this form. This is designed only for non admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Account Withdraw Form Non Admin</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";
```

```
.center {  
    display: block;  
    margin-top: 20px;  
    margin-bottom: 20px;  
    margin-left: auto;  
    margin-right: auto;  
    width: 50%;  
}  
  
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;
```

```
margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
/* menu */  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;
```

```
color: white;  
text-align: center;  
padding: 14px 16px;  
text-decoration: none;  
}  
  
.dropdown {  
float: left;  
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
font-size: 16px;  
border: none;  
outline: none;  
color: white;  
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;  
}
```

```
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;
```

```
}

.imgcontainer {
    text-align: center;
    margin: 10px 0 10px 0;
    padding: 2px 2px 2px 2px;
}

</style>

<body>

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>Final Project</p>
    <p>CSD-4464 Programming Java EE</p>
</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">
            <button class="dropbtn">Home</button>
            <div class="dropdown-content">
                <a href="home">Home Page</a>
            </div>
        </div>
    </div>
</div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Account</button>
    <div class="dropdown-content">
        <a href="viewaccount_nonadmin_getloginid">View
        Account</a> <a
            href="currencyform_nonadmin">Convert Currency</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Biller</button>
    <div class="dropdown-content">
        <a href="viewbiller_nonadmin">View Biller</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>
</div>
```

```
<div class="imgcontainer">  
      
</div>  
  
<h1>Withdraw Money</h1>  
  
<form:form method="POST" action="/Final_Project/wdeditmsave_nonadmin">  
  
    <table class="containerCenter" width="40%">  
        <tr>  
            <td></td>  
            <td><form:hidden path="accountid" /></td>  
        </tr>  
        <tr>  
            <td>Current Balance :</td>  
            <td><form:input type="number" path="balance"  
                required="required" /></td>  
        </tr>  
        <tr>  
            <td>Enter Amount :</td>  
            <td><form:input type="number" path="withdrawamount"  
                required="required" /></td>  
        </tr>  
        <tr>  
            <td></td>
```

```
<td><input type="submit" value="Withdraw Amount" /></td>

</tr>

</table>

</form:>form>

</div>

<br />

<br />

<a href="index.jsp">Back to Main Page</a>

<br />

<br />

<div class="containerCenter" style="background-color: #f1f1f1">

<p>

    Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla  
C0796429<br>Meghana  
Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal  
Kumar C0793379

</p>

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</div>

</body>

</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/accountwithdrawform.jsp

User would withdraw money from their account using this form. This is designed only for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
    <head>
        <meta charset="ISO-8859-1">
        <title>Account Withdraw Form</title>
    </head>

    <%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
    <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

    <style>
        @charset "ISO-8859-1";

        .center {
            display: block;
            margin-top: 20px;
            margin-bottom: 20px;
            margin-left: auto;
            margin-right: auto;
            width: 50%;
        }
    </style>
```

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
     span.psw {
```

```
    display: block;  
    float: none;  
}  
  
.cancelbtn {  
    width: 100%;  
}  
  
}  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {  
    float: left;
```

```
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;
```

```
}

.dropdown-content a {

    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.dropdown-content a:hover {

    background-color: #ddd;
}

.dropdown:hover .dropdown-content {

    display: block;
}

.imgcontainer {

    text-align: center;
    margin: 10px 0 10px 0;
    padding: 2px 2px 2px 2px;
}

</style>
```

```
<body>

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>Final Project</p>

    <p>CSD-4464 Programming Java EE</p>

</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Home</button>

            <div class="dropdown-content">

                <a href="home">Home Page</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Account</button>

            <div class="dropdown-content">

                <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>

            </div>

        </div>

    </div>

</div>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View

        Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a

        href="viewcustomer">View

        Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View

        User</a>

    </div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Logs</button>
    <div class="dropdown-content">
        <a href="viewlogs">View Logs</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Withdraw Money</h1>
<form:form method="POST" action="/Final_Project/wdeditmsave">
    <table class="containerCenter" width="40%">
```

```

<tr>

    <td></td>

    <td><form:hidden path="accountid" /></td>

</tr>

<tr>

    <td>Current Balance :</td>

    <td><form:input type="number" path="balance"
                    required="required" /></td>

</tr>

<tr>

    <td>Enter Amount :</td>

    <td><form:input type="number" path="withdrawamount"
                    required="required" /></td>

</tr>

<tr>

    <td></td>

    <td><input type="submit" value="Withdraw Amount" /></td>

</tr>

</table>

</form:>

</div>

<br />
<br />

```

```

<a href="index.jsp">Back to Main Page</a>

<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/adduser.jsp

User can add new user in system and can setup their username and password. This is designed only for admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>

```

```
<meta charset="ISO-8859-1">

<title>Add User</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
```

```
}

.cancelbtn {
    width: auto;
    padding: 10px 18px;
    background-color: #f44336;
}

.imgcontainer {
    text-align: center;
    margin: 24px 0 12px 0;
}

img.avatar {
    width: 10%;
    border-radius: 25%;
}

.container {
    padding: 16px;
    margin-left: auto;
    margin-right: auto;
    text-align: center;
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}
```

```
/* menu */

.navbar {
    overflow: hidden;
    background-color: #333;
}

.navbar a {
    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

.dropdown {
    float: left;
    overflow: hidden;
}

.dropdown .dropbtn {
    font-size: 16px;
    border: none;
    outline: none;
}
```

```
color: white;  
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;  
}  
  
.dropdown-content {  
display: none;  
position: absolute;  
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;
```

```
display: block;  
text-align: left;  
}  
  
.dropdown-content a:hover {  
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
display: block;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<b>body</b>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>
```

```
<div class="container">

    <div class="navbar">

        <div class="dropdown">
            <button class="dropbtn">Home</button>
            <div class="dropdown-content">
                <a href="home">Home Page</a>
            </div>
        </div>

        <div class="dropdown">
            <button class="dropbtn">Account</button>
            <div class="dropdown-content">
                <a href="accountform">Create Account</a> <a href="viewaccount">View
                    Account</a> <a href="currencyform">Convert
                    Currency</a>
            </div>
        </div>

        <div class="dropdown">
            <button class="dropbtn">Biller</button>
            <div class="dropdown-content">
                <a href="billerform">Add Biller</a> <a href="viewbiller">View
            </div>
        </div>
    </div>
</div>
```

```
Biller</a>

</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View User</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Register New User Login</h1>
<form:form method="post" action="addusersave">

<table class="containerCenter" width="20%">
    <tr>
        <td>Username :</td>
        <td><form:input path="username" required="required" /></td>
    </tr>
    <tr>
```

```

<td>Password :</td>

<td><form:input path="password" type="password"
required="required" /></td>

</tr>

<tr>

<td></td>

<td><input type="submit" value="Add User" /></td>

</tr>

</table>

</form:form>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

<p>

Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana

```

```

Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
Kumar C0793379

</p>
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</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/billereditform.jsp

User can edit biller information using this form. This is designed only for admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Biller Edit Form</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%
<style>
    @charset "ISO-8859-1";

```

```
.center {  
    display: block;  
    margin-top: 20px;  
    margin-bottom: 20px;  
    margin-left: auto;  
    margin-right: auto;  
    width: 50%;  
}  
  
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {
```

```
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {
```

```
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;
```

```
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;
```

```
}

.dropdown-content {
    display: none;
    position: absolute;
    background-color: #f9f9f9;
    min-width: 160px;
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);
    z-index: 1;
}

.dropdown-content a {
    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.dropdown-content a:hover {
    background-color: #ddd;
}

.dropdown:hover .dropdown-content {
```

```
display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
    <div class="containerCenter" style="background-color: #f1f1f1">  
        <p>Final Project</p>  
        <p>CSD-4464 Programming Java EE</p>  
    </div>  
  
    <div class="container">  
        <div class="navbar">  
            <div class="dropdown">  
                <button class="dropbtn">Home</button>  
                <div class="dropdown-content">  
                    <a href="home">Home Page</a>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>

    </div>

</div>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View
User</a>

    </div>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

    </div>

</div>
```

```
<div class="imgcontainer">
    
</div>

<h1>Edit Biller</h1>

<form:form method="POST" action="/Final_Project/editpsave">
    <table class="containerCenter" width="20%">
        <tr>
            <td></td>
            <td><form:hidden path="billerid" /></td>
        </tr>
        <tr>
            <td>Name :</td>
            <td><form:input path="name" /></td>
        </tr>
        <tr>
            <td>Address :</td>
            <td><form:input path="address" /></td>
        </tr>
        <tr>
            <td>Total Amount :</td>
            <td><form:input type="number" path="totalamount" /></td>
        </tr>
        <tr>
```

```
<td></td>

<td><input type="submit" value="Edit Biller" /></td>

</tr>

</table>

</form:form>

</div>

<br />

<br />

<a href="index.jsp">Back to Main Page</a>

<br />

<br />

<div class="containerCenter" style="background-color: #f1f1f1">

<p>

    Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla  
C0796429<br>Meghana  
Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal  
Kumar C0793379

</p>

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</div>

</body>

</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/billerform.jsp

User can add new biller information using this form. This is designed only for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Biller Form</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
```

```
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
}

.cancelbtn {
    width: auto;
    padding: 10px 18px;
    background-color: #f44336;
}

.imgcontainer {
    text-align: center;
    margin: 24px 0 12px 0;
}

img.avatar {
    width: 10%;
    border-radius: 25%;
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {
```

```
span.psw {  
    display: block;  
    float: none;  
}  
.cancelbtn {  
    width: 100%;  
}  
}  
  
/* menu */  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {
```

```
float: left;  
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);
```

```
z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}
```

```
</style>

<body>

    <div class="containerCenter" style="background-color: #f1f1f1">
        <p>Final Project</p>
        <p>CSD-4464 Programming Java EE</p>
    </div>

    <div class="container">
        <div class="navbar">
            <div class="dropdown">
                <button class="dropbtn">Home</button>
                <div class="dropdown-content">
                    <a href="home">Home Page</a>
                </div>
            </div>
            <div class="dropdown">
                <button class="dropbtn">Account</button>
                <div class="dropdown-content">
                    <a href="accountform">Create Account</a> <a href="viewaccount">View
                </div>
            </div>
        </div>
    </div>

```

```
Account</a> <a href="currencyform">Convert  
Currency</a>  
  
        </div>  
  
        </div>  
  
  
        <div class="dropdown">  
  
            <button class="dropbtn">Biller</button>  
  
            <div class="dropdown-content">  
  
                <a href="billerform">Add Biller</a> <a  
                href="viewbiller">View  
  
                    Biller</a>  
  
            </div>  
  
        </div>  
  
  
        <div class="dropdown">  
  
            <button class="dropbtn">Customer</button>  
  
            <div class="dropdown-content">  
  
                <a href="customerform">Add Customer</a> <a  
                href="viewcustomer">View  
  
                    Customer</a>  
  
            </div>  
  
        </div>  
  
  
        <div class="dropdown">  
  
            <button class="dropbtn">User</button>  
  
            <div class="dropdown-content">
```

[View User](viewuser)

</div>

</div>

<div class="dropdown">

<button class="dropbtn">Logs</button>

<div class="dropdown-content">

<a href="viewlogs">View Logs</a>

</div>

</div>

<div class="dropdown">

<button class="dropbtn">Logout</button>

<div class="dropdown-content">

<a href="index.jsp">Logout</a>

</div>

</div>

<br /> <br />

<h1>Welcome to Online Banking System</h1>

</div>

<div class="imgcontainer">



</div>

<h1 align="center">Add New Biller</h1>

<form:form method="post" action="billersave">

    <table class="containerCenter" width="25%">

        <tr>

            <td>Name :</td>

            <td><form:input path="name" required="required"
/></td>

        </tr>

        <tr>

            <td>Address :</td>

            <td><form:input path="address" required="required"
/></td>

        </tr>

        <tr>

            <td>Total Amount :</td>

            <td><form:input type="number" path="totalamount"
required="required" /></td>

        </tr>

        <tr>

            <td></td>

            <td><input type="submit" value="Register Biller"
/></td>

        </tr>

    </table>

```

```

        </tr>
    </table>
</form:form>
</div>

<a href="index.jsp">Back to Main Page</a>

<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>
</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/billerlogs.jsp

This page shows the biller logs, it would have information about when the transaction was made, by which account, which date, and to which biller. This is designed only for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
```

```
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>View Biller Logs</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>

@charset "ISO-8859-1";

.center {

    display: block;

    margin-top: 20px;

    margin-bottom: 20px;

    margin-left: auto;

    margin-right: auto;

    width: 50%;

}

body {

    font-family: Arial, Helvetica, sans-serif;
```

```
}

form {
    border: 3px solid #f1f1f1;
}

.cancelbtn {
    width: auto;
    padding: 10px 18px;
    background-color: #f44336;
}

.imgcontainer {
    text-align: center;
    margin: 24px 0 12px 0;
}

img.avatar {
    width: 10%;
    border-radius: 25%;
}

.container {
    padding: 16px;
    margin-left: auto;
```

```
margin-right: auto;  
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
span.psw {  
display: block;  
float: none;  
}
```

```
.cancelbtn {  
    width: 100%;  
}  
  
}  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {
```

```
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;  
display: block;  
text-align: left;  
}  
  
.dropdown-content a:hover {  
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
display: block;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>
```

```
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>
```

```
<div class="container">
```

```
    <div class="navbar">
```

```
        <div class="dropdown">  
            <button class="dropbtn">Home</button>  
            <div class="dropdown-content">  
                <a href="home">Home Page</a>  
            </div>  
        </div>
```

```
        <div class="dropdown">  
            <button class="dropbtn">Account</button>  
            <div class="dropdown-content">  
                <a href="accountform">Create Account</a> <a
```

```
                href="viewaccount">View  
                    Account</a> <a href="currencyform">Convert  
                Currency</a>
```

```
            </div>  
        </div>
```

```
<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View
        Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a
        href="viewcustomer">View
        Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View
        User</a>

    </div>

</div>

<div class="dropdown">
```

```
<button class="dropbtn">Logs</button>

<div class="dropdown-content">
    <a href="viewlogs">View Logs</a>
</div>

</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.Connection"%>
```

```

<%
String driverName = "com.mysql.jdbc.Driver";
String connectionUrl = "jdbc:mysql://localhost:3306/";
String dbName = "Final";
String userId = "root";
String password = "root";

try {
    Class.forName(driverName);
} catch (ClassNotFoundException e) {
    e.printStackTrace();
}

Connection connection = null;
Statement statement = null;
ResultSet resultSet = null;
%>

<h2 align="center">
<font><strong>Biller Transaction Logs</strong></font>
</h2>
<table align="center" cellpadding="5" cellspacing="5" border="1">
<tr>

</tr>
<tr bgcolor="#f58e0f">

```

```

<td><b>Biller Log ID</b></td>

<td><b>Transaction Date</b></td>

<td><b>Biller ID</b></td>

<td><b>Account ID</b></td>

</tr>

<%
try {

    connection = DriverManager.getConnection(connectionUrl + dbName,
userId, password);

    statement = connection.createStatement();

    String sql = "SELECT * FROM billerlog";

    resultSet = statement.executeQuery(sql);

    while (resultSet.next()) {

%>

<tr bgcolor="#f5f50f">

<td><%=resultSet.getString("billerlogid")%></td>

<td><%=resultSet.getString("transactiondate")%></td>

<td><%=resultSet.getString("billerid")%></td>

<td><%=resultSet.getString("accountid")%></td>

</tr>

<%
}

```

```

        } catch (Exception e) {
            e.printStackTrace();
        }
    %>

</table>

<br /><br /><a href="index.jsp">Back to Main Page</a><br /><br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>
</body>
</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/currencyform\_nonadmin.jsp

This page would convert the currency from CAD dollar to list of other currencies. This page is designed for non admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
```

```
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Convert Currency Form</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>

@charset "ISO-8859-1";

.center {

    display: block;

    margin-top: 20px;

    margin-bottom: 20px;

    margin-left: auto;

    margin-right: auto;

    width: 50%;

}

body {

    font-family: Arial, Helvetica, sans-serif;
```

```
}

form {
    border: 3px solid #f1f1f1;
}

.cancelbtn {
    width: auto;
    padding: 10px 18px;
    background-color: #f44336;
}

.imgcontainer {
    text-align: center;
    margin: 24px 0 12px 0;
}

img.avatar {
    width: 10%;
    border-radius: 25%;
}

.container {
    padding: 16px;
    margin-left: auto;
```

```
margin-right: auto;  
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
span.psw {  
display: block;  
float: none;  
}
```

```
.cancelbtn {  
    width: 100%;  
}  
  
}  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {
```

```
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;  
display: block;  
text-align: left;  
}  
  
.dropdown-content a:hover {  
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
display: block;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>
```

```
<div class="containerCenter" style="background-color: #f1f1f1">

    <p>Final Project</p>

    <p>CSD-4464 Programming Java EE</p>

</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Home</button>

            <div class="dropdown-content">

                <a href="home">Home Page</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Account</button>

            <div class="dropdown-content">

                <a href="viewaccount_nonadmin_getloginid">View
Account</a> <a
href="currencyform_nonadmin">Convert Currency</a>

            </div>

        </div>

    </div>

</div>
```

```
<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="viewbiller_nonadmin">View Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

</div>

<div class="imgcontainer">

</div>

<h1>Convert Currency</h1>

<form:form method="post" action="currencysave_nonadmin">

    <table class="containerCenter" width="40%">

        <tr>
```

```

<td>Amount in Canadian Dollar :</td>

<td><form:input type="number" path="fromamount"
               required="required" /></td>

</tr>

<tr>

    <td>Convert Currency In:</td>

    <td><select name="toamount" id="toamount">

        <option value=1>Indian (Rupee)</option>
        <option value=2>U.S. Dollar (USD)</option>
        <option value=3>British Pound (GBP)</option>
        <option value=4>Swiss Franc (CHF)</option>
        <option value=5>Japanese Yen (JPY)</option>
        <option value=6>Australian/New Zealand
Dollar</option>
        <option value=7>South African Rand
(ZAR)</option>

    </select></td>

</tr>

<tr />

<tr>

    <td></td>

    <td><input type="submit" value="Convert Amount" /></td>

</tr>

</table>

</form:form>

```

```
</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>
```

This page would convert the currency from CAD dollar to list of other currencies. This page is designed for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Convert Currency Form</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}


```

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {
```

```
padding: 16px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
span.psw {  
display: block;
```

```
    float: none;  
}  
  
.cancelbtn {  
    width: 100%;  
}  
  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
  
.dropdown {  
    float: left;  
    overflow: hidden;
```

```
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}
```

```
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}
```

```
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}
```

```
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
</style>
```

```
<body>

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>Final Project</p>

    <p>CSD-4464 Programming Java EE</p>

</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Home</button>

            <div class="dropdown-content">

                <a href="home">Home Page</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Account</button>

            <div class="dropdown-content">

                <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>

            </div>

        </div>

    </div>

</div>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View

        Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a

        href="viewcustomer">View

        Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View

        User</a>

    </div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Logs</button>
    <div class="dropdown-content">
        <a href="viewlogs">View Logs</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Convert Currency</h1>
<form:form method="post" action="currencysave">
    <table class="containerCenter" width="40%">
```

```

<tr>

    <td>Amount in Canadian Dollar :</td>
    <td><form:input type="number" path="fromamount"
        required="required" /></td>
</tr>

<tr>

    <td>Convert Currency In:</td>
    <td><select name="toamount" id="toamount">
        <option value=1>Indian (Rupee)</option>
        <option value=2>U.S. Dollar (USD)</option>
        <option value=3>British Pound (GBP)</option>
        <option value=4>Swiss Franc (CHF)</option>
        <option value=5>Japanese Yen (JPY)</option>
        <option value=6>Australian/New Zealand
Dollar</option>
        <option value=7>South African Rand
(ZAR)</option>
    </select></td>
</tr>
<tr />

<tr>
    <td></td>
    <td><input type="submit" value="Convert Amount" /></td>
</tr>
</table>

```

```
</form:form>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/customereditform.jsp

This page would edit the information about customers. It is designed for admin users only.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
    <head>
        <meta charset="ISO-8859-1">
        <title>Customer Edit Form</title>
    </head>

    <%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
    <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

    <style>
        @charset "ISO-8859-1";

        .center {
            display: block;
            margin-top: 20px;
            margin-bottom: 20px;
            margin-left: auto;
            margin-right: auto;
            width: 50%;
        }
    </style>
```

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
     span.psw {
```

```
    display: block;  
    float: none;  
}  
  
.cancelbtn {  
    width: 100%;  
}  
  
}  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {  
    float: left;
```

```
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;
```

```
}

.dropdown-content a {

    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.dropdown-content a:hover {

    background-color: #ddd;
}

.dropdown:hover .dropdown-content {

    display: block;
}

.imgcontainer {

    text-align: center;
    margin: 10px 0 10px 0;
    padding: 2px 2px 2px 2px;
}

</style>
```

```
<body>

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>Final Project</p>

    <p>CSD-4464 Programming Java EE</p>

</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Home</button>

            <div class="dropdown-content">

                <a href="home">Home Page</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Account</button>

            <div class="dropdown-content">

                <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>

            </div>

        </div>

    </div>

</div>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View

        Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a

        href="viewcustomer">View

        Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View

        User</a>

    </div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Logs</button>
    <div class="dropdown-content">
        <a href="viewlogs">View Logs</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1 align="center">Edit Customer</h1>
```

```

<form:form method="POST" action="/Final_Project/editbsave">

    <table class="containerCenter" width="20%">

        <tr>

            <td></td>

            <td><form:hidden path="customerid" /></td>

        </tr>

        <tr>

            <td>Name :</td>

            <td><form:input path="name" required="required" /></td>

        </tr>

        <tr>

            <td>Address :</td>

            <td><form:input path="address" required="required" /></td>

        </tr>

        <tr>

            <td>Type :</td>

            <td><form:input path="type" required="required" /></td>

        </tr>

        <tr>

            <td>Registration Date :</td>

            <td><form:input type="date" path="regdate" required="required"
/></td>

        </tr>

        <tr>

            <td>Expiration Date :</td>

```

```
<td><form:input type="date" path="expdate" required="required"
/></td>

</tr>

<tr>

<td>Login ID :</td>

<td><form:input type="number" path="loginid"
required="required" /></td>

</tr>

<tr>

<td></td>

<td><input type="submit" value="Edit Save" /></td>

</tr>

</table>

</form:form>
```

</div>

```
<br />

<br />

<a href="index.jsp">Back to Main Page</a>

<br />

<br />
```

```
<div class="containerCenter" style="background-color: #f1f1f1">
```

```
<p>
```

```

        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379

        </p>
        &copy W2022 GROUP E
        </div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/customerform.jsp

This page would add the information about customers. It is designed for admin users only.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
    <head>
        <meta charset="ISO-8859-1">
        <title>Customer Form</title>
    </head>

    <%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
    <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

    <style>

```

```
@charset "ISO-8859-1";  
  
.center {  
    display: block;  
    margin-top: 20px;  
    margin-bottom: 20px;  
    margin-left: auto;  
    margin-right: auto;  
    width: 50%;  
}  
  
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;
```

```
}

span.psw {
    float: right;
    padding-top: 16px;
}

/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {
        display: block;
        float: none;
    }

    .cancelbtn {
        width: 100%;
    }
}

/* menu */

.navbar {
    overflow: hidden;
    background-color: #333;
}

.navbar a {
```

```
float: left;  
font-size: 16px;  
color: white;  
text-align: center;  
padding: 14px 16px;  
text-decoration: none;  
}  
  
.dropdown {  
float: left;  
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
font-size: 16px;  
border: none;  
outline: none;  
color: white;  
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {
```

```
background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}
```

```
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
  
  
  
  
  
<body>  
  
  
  
  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
  
<p>Final Project</p>  
  
<p>CSD-4464 Programming Java EE</p>  
  
</div>  
  
  
  
  
  
<div class="container">  
  
  
  
  
  
<div class="navbar">  
  
  
  
  
  
<div class="dropdown">  
  
<button class="dropbtn">Home</button>
```

```
<div class="dropdown-content">  
    <a href="home">Home Page</a>  
</div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Account</button>  
    <div class="dropdown-content">  
        <a href="accountform">Create Account</a> <a href="viewaccount">View  
        Account</a> <a href="currencyform">Convert  
        Currency</a>  
    </div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Biller</button>  
    <div class="dropdown-content">  
        <a href="billerform">Add Biller</a> <a href="viewbiller">View  
        Biller</a>  
    </div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Customer</button>  
    <div class="dropdown-content">
```

```
<a href="customerform">Add Customer</a> <a  
href="viewcustomer">View  
Customer</a>  
</div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">User</button>  
    <div class="dropdown-content">  
        <a href="adduser">Add User</a> <a href="viewuser">View  
User</a>  
    </div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Logs</button>  
    <div class="dropdown-content">  
        <a href="viewlogs">View Logs</a>  
    </div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Logout</button>  
    <div class="dropdown-content">  
        <a href="index.jsp">Logout</a>  
    </div>
```

```
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Add New Customer</h1>

<form:form method="post" action="customersave">
    <table class="containerCenter" width="20%">
        <tr>
            <td>Name :</td>
            <td><form:input path="name" required="required" /></td>
        </tr>
        <tr>
            <td>Address :</td>
            <td><form:input path="address" required="required" /></td>
        </tr>
        <tr>
            <td>Type :</td>
            <td><form:input path="type" required="required" /></td>
        </tr>
        <tr>
            <td>Registration Date :</td>
```

```
        <td><form:input type="date" path="regdate"
required="required" /></td>

        </tr>

        <tr>

            <td>Expiration Date :</td>

            <td><form:input type="date" path="expdate"
required="required" /></td>

            </tr>

            <tr>

                <td>Login ID :</td>

                <td><form:input type="number" path="loginid"
required="required" /></td>

                </tr>

                <tr>

                    <td></td>

                    <td><input type="submit" value="Save" /></td>

                    </tr>

                </table>

            </form:form>

        </div>

        <br />
        <br />
        <a href="index.jsp">Back to Main Page</a>
        <br />
        <br />
```

```

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/home\_nonadmin.jsp

This is a home page having menu to various options. This is for non admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Home</title>
</head>

```

```
<style>

@charset "ISO-8859-1";


.center {

    display: block;

    margin-top: 20px;

    margin-bottom: 20px;

    margin-left: auto;

    margin-right: auto;

    width: 50%;

}

body {

    font-family: Arial, Helvetica, sans-serif;

}

form {

    border: 3px solid #f1f1f1;

}

.cancelbtn {

    width: auto;

    padding: 10px 18px;

    background-color: #f44336;

}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;
```

```
    text-align: center;  
}  
  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
  
    span.psw {  
        display: block;  
        float: none;  
    }  
  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}
```

```
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}
```

```
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}
```

```
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="navbar">
```

```
<div class="dropdown">

    <button class="dropbtn">Home</button>

    <div class="dropdown-content">

        <a href="home">Home Page</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="viewaccount_nonadmin_getloginid">View
Account</a> <a

            href="currencyform_nonadmin">Convert Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="viewbiller_nonadmin">View Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">
```

```
<a href="index.jsp">Logout</a>

</div>

</div>

<br /> <br />

<h1>Welcome to Online Banking System</h1>

</div>

<div class="imgcontainer">



</div>

<a href="index.jsp">Back to Main Page</a>

<br />

<br />

<div class="containerCenter" style="background-color: #f1f1f1">

<p>

Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana
Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal

```

```
Kumar C0793379
```

```
</p>
```

```
© W2022 GROUP E
```

```
</div>
```

```
</body>
```

```
</html>
```

```
/Final_Project/src/main/webapp/WEB-INF/jsp/home.jsp
```

This is a home page having menu to various options. This is for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
```

```
    pageEncoding="ISO-8859-1"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>Home</title>
```

```
</head>
```

```
<style>
```

```
    @charset "ISO-8859-1";
```

```
.center {
```

```
    display: block;
```

```
    margin-top: 20px;
```

```
margin-bottom: 20px;  
margin-left: auto;  
margin-right: auto;  
width: 50%;  
}  
  
body {  
font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
width: auto;  
padding: 10px 18px;  
background-color: #f44336;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;
```

```
}

/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {

        display: block;
        float: none;
    }

    .cancelbtn {

        width: 100%;
    }
}

/* menu */

.navbar {

    overflow: hidden;
    background-color: #333;
}

.navbar a {

    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
}
```

```
text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;
```

```
position: absolute;  
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;  
display: block;  
text-align: left;  
}  
  
.dropdown-content a:hover {  
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
display: block;  
}  
  
.imgcontainer {
```

```
text-align: center;  
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="navbar">  
        <div class="dropdown">  
            <button class="dropbtn">Home</button>  
            <div class="dropdown-content">  
                <a href="home">Home Page</a>  
            </div>  
        </div>  
</div>
```

```
<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="accountform">Create Account</a> <a
href="viewaccount">View

            Account</a> <a href="currencyform">Convert
Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View

            Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a
href="viewcustomer">View

            Customer</a>

    </div>

</div>
```

```
<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View
User</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">Customer Logs</a>
        <a href="billerlogs">Biller Logs</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

</div>
```

```
<br /><br />

<h1>Welcome to Online Banking System</h1>

</div>

<div class="imgcontainer">
    
</div>

</div>

<a href="index.jsp">Back to Main Page</a>

<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>
```

```
</body>  
</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/interactmoneyform\_nonadmin.jsp

Users can interact money using this form. This is for non admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"  
pageEncoding="ISO-8859-1"%>  
  
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
<meta charset="ISO-8859-1">  
  
<title>Interact Money Form</title>  
  
</head>  
  
  
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>  
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>  
  
  
<style>  
  
@charset "ISO-8859-1";  
  
  
.center {  
  
    display: block;  
  
    margin-top: 20px;  
  
    margin-bottom: 20px;  
  
    margin-left: auto;
```

```
margin-right: auto;  
width: 50%;  
}  
  
body {  
font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
width: auto;  
padding: 10px 18px;  
background-color: #f44336;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 24px 0 12px 0;  
}  
  
img.avatar {  
width: 10%;
```

```
border-radius: 25%;  
}  
  
}
```

```
.container {  
  
padding: 16px;  
  
margin-left: auto;  
  
margin-right: auto;  
  
text-align: center;  
}
```

```
.containerCenter {  
  
padding: 10px;  
  
display: block;  
  
margin-top: 10px;  
  
margin-bottom: 10px;  
  
margin-left: auto;  
  
margin-right: auto;  
  
text-align: center;  
}
```

```
span.psw {  
  
float: right;  
  
padding-top: 16px;  
}
```

```
/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {
        display: block;
        float: none;
    }

    .cancelbtn {
        width: 100%;
    }
}

/* menu */

.navbar {
    overflow: hidden;
    background-color: #333;
}

.navbar a {
    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}
```

```
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;
```

```
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;
```

```
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="navbar">  
        <div class="dropdown">  
            <button class="dropbtn">Home</button>  
            <div class="dropdown-content">  
                <a href="home">Home Page</a>  
            </div>  
        </div>  
        <div class="dropdown">  
            <button class="dropbtn">Account</button>  
            <div class="dropdown-content">
```

Account</a> <a href="viewaccount\_nonadmin\_getloginid">View Account</a>

<a href="currencyform\_nonadmin">Convert Currency</a>

</div>

</div>

<div class="dropdown">

<button class="dropbtn">Biller</button>

<div class="dropdown-content">

<a href="viewbiller\_nonadmin">View Biller</a>

</div>

</div>

<div class="dropdown">

<button class="dropbtn">Logout</button>

<div class="dropdown-content">

<a href="index.jsp">Logout</a>

</div>

</div>

</div>

<div class="imgcontainer">



```

<h1>Interact Money</h1>

<form:form method="POST" action="/Final_Project/emeditmsave_nonadmin">

    <table class="containerCenter" width="40%">

        <tr>

            <td></td>

            <td><form:hidden path="accountid" /></td>

        </tr>

        <tr>

            <td>Current Balance :</td>

            <td><form:input type="number" path="balance"
                           required="required" /></td>

        </tr>

        <tr>

            <td>Enter Transfer Email ID :</td>

            <td><form:input type="email" path="transferemailid"
                           required="required" /></td>

        </tr>

        <tr>

            <td>Enter Transfer Amount :</td>

            <td><form:input type="number" path="transferamount"
                           required="required" /></td>

        </tr>

        <tr>

```

```

<td></td>

<td><input type="submit" value="Interact Amount" /></td>

</tr>

</table>

</form:>form>

</div>

<br />

<br />

<a href="index.jsp">Back to Main Page</a>

<br />

<br />

<div class="containerCenter" style="background-color: #f1f1f1">

<p>

    Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla  

C0796429<br>Meghana  

    Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal  

    Kumar C0793379

</p>

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</div>

</body>

</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/interactmoneyform.jsp

Users can interact money using this form. This is for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Interact Money Form</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
```

```
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
}

.cancelbtn {
    width: auto;
    padding: 10px 18px;
    background-color: #f44336;
}

.imgcontainer {
    text-align: center;
    margin: 24px 0 12px 0;
}

img.avatar {
    width: 10%;
    border-radius: 25%;
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {
```

```
span.psw {  
    display: block;  
    float: none;  
}  
.cancelbtn {  
    width: 100%;  
}  
}  
  
/* menu */  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {
```

```
float: left;  
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);
```

```
z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}
```

```
</style>

<body>

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>Final Project</p>

    <p>CSD-4464 Programming Java EE</p>

</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Home</button>

            <div class="dropdown-content">

                <a href="home">Home Page</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Account</button>

            <div class="dropdown-content">

                <a href="accountform">Create Account</a> <a href="viewaccount">View

            </div>

        </div>

    </div>

</div>
```

Account</a> <a href="currencyform">Convert

Currency</a>

</div>

</div>

<div class="dropdown">

<button class="dropbtn">Biller</button>

<div class="dropdown-content">

<a href="billerform">Add Biller</a> <a href="viewbiller">View

Biller</a>

</div>

</div>

<div class="dropdown">

<button class="dropbtn">Customer</button>

<div class="dropdown-content">

<a href="customerform">Add Customer</a> <a

href="viewcustomer">View

Customer</a>

</div>

</div>

<div class="dropdown">

<button class="dropbtn">User</button>

<div class="dropdown-content">

<a href="adduser">Add User</a> <a href="viewuser">View

User</a>

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

</div>

<div class="imgcontainer">

</div>

<h1>Interact Money</h1>

<form:form method="POST" action="/Final_Project/emeditmsave">
```

```

<table class="containerCenter" width="40%">

    <tr>

        <td></td>

        <td><form:hidden path="accountid" /></td>

    </tr>

    <tr>

        <td>Current Balance :</td>

        <td><form:input type="number" path="balance"
                      required="required" /></td>

    </tr>

    <tr>

        <td>Enter Transfer Email ID :</td>

        <td><form:input type="email" path="transferemailid"
                      required="required" /></td>

    </tr>

    <tr>

        <td>Enter Transfer Amount :</td>

        <td><form:input type="number" path="transferamount"
                      required="required" /></td>

    </tr>

    <tr>

        <td></td>

        <td><input type="submit" value="Interact Amount" /></td>

    </tr>

```

```

        </table>
    </form:form>
</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/login.jsp

User can login using this page. This is for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
```

```
font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;
```

```
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
span.psw {  
display: block;  
float: none;
```

```
}

.cancelbtn {
    width: 100%;

}

/* menu */

.navbar {
    overflow: hidden;
    background-color: #333;
}

.navbar a {
    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

.dropdown {
    float: left;
    overflow: hidden;
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}
```

```
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
</style>
```

```
<body>

    <div class="containerCenter" style="background-color: #f1f1f1">
        <p>Final Project</p>
        <p>CSD-4464 Programming Java EE</p>
    </div>

    <div class="container">

        <div class="imgcontainer">
            
        </div>

        <h1>Login</h1>
        <form:form method="post" action="logincheck">
            <table class="containerCenter" width="20%">
                <tr>
                    <td>Username :</td>
                    <td><form:input path="username" required="required" /></td>
                </tr>
                <tr>
                    <td>Password :</td>
                    <td><form:input path="password" type="password"
                        required="required" /></td>
                </tr>
            </table>
        </form:form>
    </div>

```

```
</tr>

<tr>

<td></td>

<td><input type="submit" value="Login" /></td>

</tr>

</table>

</form:>form>

</div>

<a href="index.jsp">Back to Main Page</a>

<br />

<br />

<div class="containerCenter" style="background-color: #f1f1f1">

<p>

Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla  
C0796429<br>Meghana  
  
Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal  
Kumar C0793379  
  
</p>

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</div>

</body>
```

```
</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/LoginFailed.jsp

User would see the login fail message on this form when the login is not successful. This page is for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Login Failed</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
}
```

```
width: 50%;  
}  
  
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;
```

```
}

.container {
    padding: 16px;
    margin-left: auto;
    margin-right: auto;
    text-align: center;
}

.containerCenter {
    padding: 10px;
    display: block;
    margin-top: 10px;
    margin-bottom: 10px;
    margin-left: auto;
    margin-right: auto;
    text-align: center;
}

span.psw {
    float: right;
    padding-top: 16px;
}

/* Change styles for span and cancel button on extra small screens */
```

```
@media screen and (max-width: 300px) {
```

```
    span.psw {  
        display: block;  
        float: none;  
    }  
  
.cancelbtn {  
    width: 100%;  
}  
}
```

```
/* menu */
```

```
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}
```

```
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}
```

```
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;
```

```
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;
```

```
}

</style>

<body>

    <div class="containerCenter" style="background-color: #f1f1f1">

        <p>Final Project</p>

        <p>CSD-4464 Programming Java EE</p>

    </div>

    <div class="container">

        <div class="imgcontainer">

        </div>

        <br> Login Failed!<br> Please try again. <a href="index.jsp">Click
        Here.</a><br>
        <br>

    </div>

    <a href="index.jsp">Back to Main Page</a>
```

```

<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/paybillerform\_nonadmin.jsp

User can pay bills using this form. This page is for non admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>
<html>
    <head>
        <meta charset="ISO-8859-1">

```

```
<title>Pay Bills Form Non Admin</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
}
```

```
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {
```

```
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
@media screen and (max-width: 300px) {  
span.psw {  
display: block;  
float: none;  
}  
.cancelbtn {  
width: 100%;  
}  
}
```

```
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;
```

```
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;  
}  
  
.dropdown-content {  
display: none;  
position: absolute;  
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;  
display: block;
```

```
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>
```

```
<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Home</button>

            <div class="dropdown-content">

                <a href="home">Home Page</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Account</button>

            <div class="dropdown-content">

                <a href="viewaccount_nonadmin_getloginid">View
                Account</a> <a
                href="currencyform_nonadmin">Convert Currency</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Biller</button>

            <div class="dropdown-content">

                <a href="viewbiller_nonadmin">View Biller</a>

            </div>

        </div>

    </div>
```

```

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

<div class="imgcontainer">

</div>

<h1>Pay Biller</h1>

<form:form method="POST" action="/Final_Project/editbillsave_nonadmin">

    <table class="containerCenter" width="20%">

        <tr>

            <td></td>

            <td><form:hidden path="billerid" /></td>

        </tr>

        <tr>

            <td><form:hidden path="totalamount" required="required"
/></td>

        </tr>

    </table>

```

```
<tr>

<td>Account ID :</td>

<td><form:input type="number" path="accountid"
required="required" /></td>

</tr>

<tr>

<td>Amount To Pay :</td>

<td><form:input type="number" path="amounttopay"
required="required" /></td>

</tr>

<tr>

<td></td>

<td><input type="submit" value="Pay Bill" /></td>

</tr>

</table>

</form:form>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />
```

```

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>

        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379

    </p>

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</div>

</body>

</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/paybillerform.jsp

User can pay bills using this form. This page is for admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Pay Bills Form</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>

```

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
```

```
<style>
```

```
@charset "ISO-8859-1";
```

```
.center {
```

```
    display: block;
```

```
    margin-top: 20px;
```

```
    margin-bottom: 20px;
```

```
    margin-left: auto;
```

```
    margin-right: auto;
```

```
    width: 50%;
```

```
}
```

```
body {
```

```
    font-family: Arial, Helvetica, sans-serif;
```

```
}
```

```
form {
```

```
    border: 3px solid #f1f1f1;
```

```
}
```

```
.cancelbtn {
```

```
    width: auto;
```

```
    padding: 10px 18px;
```

```
background-color: #f44336;  
}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;
```

```
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;
```

```
}

.navbar a {

    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

.dropdown {

    float: left;
    overflow: hidden;
}

.dropdown .dropbtn {

    font-size: 16px;
    border: none;
    outline: none;
    color: white;
    padding: 14px 16px;
    background-color: inherit;
    font-family: inherit;
    margin: 0;
```

```
}

.navbar a:hover, .dropdown:hover .dropbtn {
    background-color: red;
}

.dropdown-content {
    display: none;
    position: absolute;
    background-color: #f9f9f9;
    min-width: 160px;
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);
    z-index: 1;
}

.dropdown-content a {
    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.dropdown-content a:hover {
```

```
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
    <div class="containerCenter" style="background-color: #f1f1f1">  
        <p>Final Project</p>  
        <p>CSD-4464 Programming Java EE</p>  
    </div>  
  
    <div class="container">  
        <div class="navbar">
```

```
<div class="dropdown">

    <button class="dropbtn">Home</button>

    <div class="dropdown-content">

        <a href="home">Home Page</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View Biller</a>

    </div>

</div>

<div class="dropdown">
```

```
<button class="dropbtn">Customer</button>

<div class="dropdown-content">

    <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>

</div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View User</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">
```

```

<a href="index.jsp">Logout</a>

</div>

</div>

</div>

<div class="imgcontainer">



</div>

<h1>Pay Biller</h1>

<form:form method="POST" action="/Final_Project/editbillsave">

<table class="containerCenter" width="20%">

<tr>

<td></td>

<td><form:hidden path="billerid" /></td>

</tr>

<tr>

<td><form:hidden path="totalamount" required="required" /></td>

</tr>

<tr>

<td>Account ID :</td>

<td><form:input type="number" path="accountid" required="required" /></td>


```

```
</tr>

<tr>

    <td>Amount To Pay :</td>

    <td><form:input type="number" path="amounttopay"
        required="required" /></td>

</tr>

<tr>

    <td></td>

    <td><input type="submit" value="Pay Bill" /></td>

</tr>

</table>

</form:form>

</div>
```

```
<br />

<br />

<a href="index.jsp">Back to Main Page</a>

<br />

<br />
```

```
<div class="containerCenter" style="background-color: #f1f1f1">
```

```
    <p>
```

```
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana
```

```

Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
Kumar C0793379

</p>
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</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/usereditform.jsp

User can edit user information, i.e. username and password using this form. This page is for admin users only.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>User Edit Form</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

```

```
.center {  
    display: block;  
    margin-top: 20px;  
    margin-bottom: 20px;  
    margin-left: auto;  
    margin-right: auto;  
    width: 50%;  
}  
  
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {
```

```
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {
```

```
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;
```

```
font-size: 16px;  
color: white;  
text-align: center;  
padding: 14px 16px;  
text-decoration: none;  
}  
  
.dropdown {  
float: left;  
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
font-size: 16px;  
border: none;  
outline: none;  
color: white;  
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;
```

```
}

.dropdown-content {
    display: none;
    position: absolute;
    background-color: #f9f9f9;
    min-width: 160px;
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);
    z-index: 1;
}

.dropdown-content a {
    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.dropdown-content a:hover {
    background-color: #ddd;
}

.dropdown:hover .dropdown-content {
```

```
display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Assignment 4</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="navbar">  
        <div class="dropdown">  
            <button class="dropbtn">Home</button>  
            <div class="dropdown-content">  
                <a href="home">Home Page</a>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>

    </div>

</div>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View
User</a>

    </div>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

    </div>

</div>
```

```
<div class="imgcontainer">

</div>



# Edit User



<form:form method="POST" action="/Final_Project/editusave">

    <table class="containerCenter" width="20%">

        <tr>

            <td></td>

            <td><form:hidden path="loginid" /></td>

        </tr>

        <tr>

            <td>Username :</td>

            <td><form:input path="username" required="required" /></td>

        </tr>

        <tr>

            <td>Password :</td>

            <td><form:input path="password" required="required" /></td>

        </tr>

        <tr>

            <td></td>

            <td><input type="submit" value="Edit User" /></td>

        </tr>

    </table>
</form:form>
```

```
</table>

</form:form>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>
```

After login, user have to enter their ID in order to see their accounts. This page is only for non admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>View Account Form Login Check</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}
```

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {
```

```
padding: 16px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
span.psw {  
display: block;
```

```
    float: none;  
}  
  
.cancelbtn {  
    width: 100%;  
}  
  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
  
.dropdown {  
    float: left;  
    overflow: hidden;
```

```
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}
```

```
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}
```

```
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}
```

```
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
</style>
```

```
<body>

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>Final Project</p>

    <p>CSD-4464 Programming Java EE</p>

</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Home</button>

            <div class="dropdown-content">

                <a href="home">Home Page</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Account</button>

            <div class="dropdown-content">

                <a href="viewaccount_nonadmin_getloginid">View
Account</a> <a

                    href="currencyform_nonadmin">Convert Currency</a>

            </div>

        </div>

    </div>

</div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Biller</button>
    <div class="dropdown-content">
        <a href="viewbiller_nonadmin">View Biller</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Please enter your Login ID</h1>
<form:form method="post" action="accountsavelc">
    <table class="containerCenter" width="40%">
```

```
<tr>

    <td>Please enter your User ID:</td>

    <td><form:input type="number" path="loginid"
        required="required" /></td>

</tr>

<tr>

    <td></td>

    <td><input type="submit" value="View Your Accounts" /></td>

</tr>

</table>

</form:form>
```

```
</div>
```

```
<br />
```

```
<br />
```

```
<a href="index.jsp">Back to Main Page</a>
```

```
<br />
```

```
<br />
```

```
<div class="containerCenter" style="background-color: #f1f1f1">
```

```
<p>
```

```
Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla  
C0796429<br>Meghana
```

```

Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
Kumar C0793379

</p>
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</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/viewaccount\_nonadmin.jsp

User can view their account information using this page. This page is for non admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>View Account Non Admin</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

```

```
.center {  
    display: block;  
    margin-top: 20px;  
    margin-bottom: 20px;  
    margin-left: auto;  
    margin-right: auto;  
    width: 50%;  
}  
  
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {
```

```
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {
```

```
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;
```

```
font-size: 16px;  
color: white;  
text-align: center;  
padding: 14px 16px;  
text-decoration: none;  
}  
  
.dropdown {  
float: left;  
overflow: hidden;  
}  
  
.dropdown .dropbtn {  
font-size: 16px;  
border: none;  
outline: none;  
color: white;  
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;
```

```
}

.dropdown-content {
    display: none;
    position: absolute;
    background-color: #f9f9f9;
    min-width: 160px;
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);
    z-index: 1;
}

.dropdown-content a {
    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.dropdown-content a:hover {
    background-color: #ddd;
}

.dropdown:hover .dropdown-content {
```

```
display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
    <div class="containerCenter" style="background-color: #f1f1f1">  
        <p>Final Project</p>  
        <p>CSD-4464 Programming Java EE</p>  
    </div>  
  
    <div class="container">  
        <div class="navbar">  
            <div class="dropdown">  
                <button class="dropbtn">Home</button>  
                <div class="dropdown-content">  
                    <a href="home">Home Page</a>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="viewaccount_nonadmin_getloginid">View
Account</a> <a

        href="currencyform_nonadmin">Convert Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="viewbiller_nonadmin">View Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

</div>
```

```
<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

<div class="imgcontainer">

</div>

<h1>Your Accounts List</h1>

<table class="containerCenter" border="2" width="80%" cellpadding="2">

    <tr bgcolor="#f58e0f">

        <th>Id</th>

        <th>Name</th>

        <th>Email ID</th>

        <th>Address</th>

        <th>Account Type</th>

        <th>Balance</th>

        <th>Account Membership Date</th>

        <th>Account Expiration Date</th>

        <th>Login ID</th>

    </tr>
```

Edit	Delete	Deposit	Withdraw	Transfer	Interact
<a href="editaccount_nonadmin/\${account.accountid}">Edit</a>	<a href="deleteaccount_nonadmin/\${account.accountid}">Delete</a>	<a href="accountdeposit_nonadmin/\${account.accountid}">Deposit</a>	<a href="accountwithdraw_nonadmin/\${account.accountid}">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

```

        href="accounttransfermoney_nonadmin/${account.accountid}">Transfer</a></td>
        <td><a href="interactmoney_nonadmin/${account.accountid}">Interact</a></td>
    </tr>
</c:forEach>
</table>
<br /><a href="accountform">Add New Account</a>
</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

```

```
</body>  
</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/viewaccount.jsp

User can view their account information using this page. This page is for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"  
    pageEncoding="ISO-8859-1"%>  
  
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
<meta charset="ISO-8859-1">  
  
<title>View Account</title>  
  
</head>  
  
  
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>  
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>  
  
  
<style>  
  
@charset "ISO-8859-1";  
  
  
.center {  
  
    display: block;  
  
    margin-top: 20px;  
  
    margin-bottom: 20px;  
  
    margin-left: auto;
```

```
margin-right: auto;  
width: 50%;  
}  
  
body {  
font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
width: auto;  
padding: 10px 18px;  
background-color: #f44336;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 24px 0 12px 0;  
}  
  
img.avatar {  
width: 10%;
```

```
border-radius: 25%;  
}  
  
}
```

```
.container {  
  
padding: 16px;  
  
margin-left: auto;  
  
margin-right: auto;  
  
text-align: center;  
}
```

```
.containerCenter {  
  
padding: 10px;  
  
display: block;  
  
margin-top: 10px;  
  
margin-bottom: 10px;  
  
margin-left: auto;  
  
margin-right: auto;  
  
text-align: center;  
}
```

```
span.psw {  
  
float: right;  
  
padding-top: 16px;  
}
```

```
/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {
        display: block;
        float: none;
    }

    .cancelbtn {
        width: 100%;
    }
}

/* menu */

.navbar {
    overflow: hidden;
    background-color: #333;
}

.navbar a {
    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}
```

```
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;
```

```
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;
```

```
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="navbar">  
        <div class="dropdown">  
            <button class="dropbtn">Home</button>  
            <div class="dropdown-content">  
                <a href="home">Home Page</a>  
            </div>  
        </div>  
        <div class="dropdown">  
            <button class="dropbtn">Account</button>  
            <div class="dropdown-content">
```



User</a>

</div>

</div>

<div class="dropdown">

<button class="dropbtn">Logs</button>

<div class="dropdown-content">

<a href="viewlogs">View Logs</a>

</div>

</div>

<div class="dropdown">

<button class="dropbtn">Logout</button>

<div class="dropdown-content">

<a href="index.jsp">Logout</a>

</div>

</div>

</div>

<div class="imgcontainer">



</div>

```

<h1>Account List</h1>

<table class="containerCenter" border="2" width="90%" cellpadding="2">

<tr bgcolor="#f58e0f">

    <th>Id</th>
    <th>Name</th>
    <th>Email ID</th>
    <th>Address</th>
    <th>Account Type</th>
    <th>Balance</th>
    <th>Account Membership Date</th>
    <th>Account Expiration Date</th>
    <th>Login ID</th>
    <th>Edit</th>
    <th>Delete</th>
    <th>Deposit</th>
    <th>Withdraw</th>
    <th>Transfer</th>
    <th>Interact</th>

</tr>

<c:forEach var="account" items="${list}">

    <tr bgcolor="#f5f50f">

        <td>${account.accountid}</td>
        <td>${account.name}</td>
        <td>${account.emailid}</td>
        <td>${account.address}</td>

```

```

<td>${account.accounttype}</td>

<td>${account.balance}</td>

<td>${account.accountdate}</td>

<td>${account.accountexpdate}</td>

<td>${account.loginid}</td>

<td><a href="editaccount/${account.accountid}">Edit</a></td>

<td><a href="deleteaccount/${account.accountid}">Delete</a></td>

<td><a href="accountdeposit/${account.accountid}">Deposit</a></td>

<td><a href="accountwithdraw/${account.accountid}">Withdraw</a></td>

<td><a href="accounttransfermoney/${account.accountid}">Transfer</a></td>

<td><a href="interactmoney/${account.accountid}">Interact</a></td>

</tr>

</c:forEach>

</table>

<br /><a href="accountform">Add New Account</a>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

```

```

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/viewbiller\_nonadmin.jsp

User can view biller information using this page. This page is for non admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>View Biller Non Admin</title>
</head>

```

```
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
}

.cancelbtn {
    width: auto;
```

```
padding: 10px 18px;  
background-color: #f44336;  
}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;
```

```
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;
```

```
background-color: #333;  
}
```

```
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}
```

```
.dropdown {  
    float: left;  
    overflow: hidden;  
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;
```

```
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}
```

```
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">
```

```
<div class="navbar">

    <div class="dropdown">
        <button class="dropbtn">Home</button>
        <div class="dropdown-content">
            <a href="home">Home Page</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Account</button>
        <div class="dropdown-content">
            <a href="viewaccount_nonadmin_getloginid">View
            Account</a> <a
                href="currencyform_nonadmin">Convert Currency</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Biller</button>
        <div class="dropdown-content">
            <a href="viewbiller_nonadmin">View Biller</a>
        </div>
    </div>

    <div class="dropdown">
```

```

<button class="dropbtn">Logout</button>

<div class="dropdown-content">
    <a href="index.jsp">Logout</a>
</div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Biller List</h1>

<table class="containerCenter" border="2" width="20%" cellpadding="3">
    <tr bgcolor="#f58e0f">
        <th>Id</th>
        <th>Name</th>
        <th>Address</th>
        <th>Pay Biller</th>
    </tr>
    <c:forEach var="biller" items="${list}">
        <tr bgcolor="#f5f50f">
            <td>${biller.billerid}</td>
            <td>${biller.name}</td>
            <td>${biller.address}</td>

```

```

<td><a href="paybiller_nonadmin/${biller.billerid}">Pay
Bill</a></td>
</tr>
</c:forEach>
</table>
<br /><a href="billerform">Add New Biller</a> <br /> <br />
</div>
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
<p>
Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana
Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
Kumar C0793379
</p>
&copy W2022 GROUP E
</div>
</body>
</html>

```

User can view biller information using this page. This page is for admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>View Biller</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}
```

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {
```

```
padding: 16px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
span.psw {  
display: block;
```

```
    float: none;  
}  
  
.cancelbtn {  
    width: 100%;  
}  
  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
  
.dropdown {  
    float: left;  
    overflow: hidden;
```

```
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}
```

```
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}
```

```
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}
```

```
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
</style>
```

```
<body>

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>Final Project</p>

    <p>CSD-4464 Programming Java EE</p>

</div>

<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Home</button>

            <div class="dropdown-content">

                <a href="home">Home Page</a>

            </div>

        </div>

        <div class="dropdown">

            <button class="dropbtn">Account</button>

            <div class="dropdown-content">

                <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>

            </div>

        </div>

    </div>

</div>
```

```
</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View

        Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a

        href="viewcustomer">View

        Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View

        User</a>

    </div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Logs</button>
    <div class="dropdown-content">
        <a href="viewlogs">View Logs</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logout</button>
    <div class="dropdown-content">
        <a href="index.jsp">Logout</a>
    </div>
</div>

</div>

<div class="imgcontainer">
    
</div>

<h1>Biller List</h1>
<table class="containerCenter" border="2" width="30%" cellpadding="3">
    <tr bgcolor="#f58e0f">
```

```

<th>Id</th>
<th>Name</th>
<th>Address</th>
<th>Total Amount</th>
<th>Edit</th>
<th>Delete</th>
<th>Pay Biller</th>
</tr>

<c:forEach var="biller" items="${list}">
<tr bgcolor="#f5f5f0">
<td>${biller.billerid}</td>
<td>${biller.name}</td>
<td>${biller.address}</td>
<td>${biller.totalamount}</td>
<td><a href="editbiller/${biller.billerid}">Edit</a></td>
<td><a href="deletebiller/${biller.billerid}">Delete</a></td>
<td><a href="paybiller/${biller.billerid}">Pay Bill</a></td>
</tr>
</c:forEach>
</table>
<br /><a href="billerform">Add New Biller</a> <br /> <br />
</div>
<a href="index.jsp">Back to Main Page</a>
<br />
<br />
```

```

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379

    </p>
    &copy W2022 GROUP E

</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/viewcurrency\_nonadmin.jsp

User can view converted currency information using this page. This page is for non admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Currency Convert</title>

</head>

```

```
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
}

.cancelbtn {
    width: auto;
```

```
padding: 10px 18px;  
background-color: #f44336;  
}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;
```

```
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;
```

```
background-color: #333;  
}
```

```
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}
```

```
.dropdown {  
    float: left;  
    overflow: hidden;  
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;
```

```
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}
```

```
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">
```

```
<div class="navbar">

    <div class="dropdown">
        <button class="dropbtn">Home</button>
        <div class="dropdown-content">
            <a href="home">Home Page</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Account</button>
        <div class="dropdown-content">
            <a href="viewaccount_nonadmin_getloginid">View
            Account</a> <a
                href="currencyform_nonadmin">Convert Currency</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Biller</button>
        <div class="dropdown-content">
            <a href="viewbiller_nonadmin">View Biller</a>
        </div>
    </div>
```

```
<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

<div class="imgcontainer">

</div>

<h4>

    The Converted Currency is:

    <%=request.getParameter("message")%>

</h4>

</div>

<br />
<br />

<a href="index.jsp">Back to Main Page</a>

<br />
<br />
```

```

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>

        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379

    </p>

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</div>

</body>

</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/viewcurrency.jsp

User can view converted currency information using this page. This page is for admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Currency Convert</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>

```

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
```

```
<style>
```

```
@charset "ISO-8859-1";
```

```
.center {
```

```
    display: block;
```

```
    margin-top: 20px;
```

```
    margin-bottom: 20px;
```

```
    margin-left: auto;
```

```
    margin-right: auto;
```

```
    width: 50%;
```

```
}
```

```
body {
```

```
    font-family: Arial, Helvetica, sans-serif;
```

```
}
```

```
form {
```

```
    border: 3px solid #f1f1f1;
```

```
}
```

```
.cancelbtn {
```

```
    width: auto;
```

```
    padding: 10px 18px;
```

```
background-color: #f44336;  
}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;
```

```
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;
```

```
}

.navbar a {

    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

.dropdown {

    float: left;
    overflow: hidden;
}

.dropdown .dropbtn {

    font-size: 16px;
    border: none;
    outline: none;
    color: white;
    padding: 14px 16px;
    background-color: inherit;
    font-family: inherit;
    margin: 0;
}
```

```
}

.navbar a:hover, .dropdown:hover .dropbtn {
    background-color: red;
}

.dropdown-content {
    display: none;
    position: absolute;
    background-color: #f9f9f9;
    min-width: 160px;
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);
    z-index: 1;
}

.dropdown-content a {
    float: none;
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

.dropdown-content a:hover {
```

```
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">
```

```
<div class="navbar">

    <div class="dropdown">
        <button class="dropbtn">Home</button>
        <div class="dropdown-content">
            <a href="home">Home Page</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Account</button>
        <div class="dropdown-content">
            <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Biller</button>
        <div class="dropdown-content">
            <a href="billerform">Add Biller</a> <a href="viewbiller">View Biller</a>
        </div>
    </div>
```

```
<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">

        <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View User</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

</div>

<div class="dropdown">
```

```
<button class="dropbtn">Logout</button>

<div class="dropdown-content">
    <a href="index.jsp">Logout</a>
</div>
</div>

</div>

<div class="imgcontainer">
    
</div>
<h4>
    The Converted Currency is:
    <%=request.getParameter("message")%>
</h4>
</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
```

```

<p>

    Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
    C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379

</p>

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</div>

</body>

</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/viewcustomer.jsp

Users can view customer information on this page. This is only for admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>View Customer</title>

</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

```

```
<style>

@charset "ISO-8859-1";


.center {

    display: block;

    margin-top: 20px;

    margin-bottom: 20px;

    margin-left: auto;

    margin-right: auto;

    width: 50%;

}

body {

    font-family: Arial, Helvetica, sans-serif;

}

form {

    border: 3px solid #f1f1f1;

}

.cancelbtn {

    width: auto;

    padding: 10px 18px;

    background-color: #f44336;

}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;
```

```
    text-align: center;  
}  
  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
  
    span.psw {  
        display: block;  
        float: none;  
    }  
  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}
```

```
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}
```

```
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}
```

```
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="navbar">
```

```
<div class="dropdown">

    <button class="dropbtn">Home</button>

    <div class="dropdown-content">

        <a href="home">Home Page</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="accountform">Create Account</a> <a href="viewaccount">View Account</a> <a href="currencyform">Convert Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View Biller</a>

    </div>

</div>

<div class="dropdown">
```

```
<button class="dropbtn">Customer</button>

<div class="dropdown-content">

    <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>

</div>

</div>

<div class="dropdown">

    <button class="dropbtn">User</button>

    <div class="dropdown-content">

        <a href="adduser">Add User</a> <a href="viewuser">View User</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logs</button>

    <div class="dropdown-content">

        <a href="viewlogs">View Logs</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">
```

```
<a href="index.jsp">Logout</a>

</div>

</div>

</div>

<div class="imgcontainer">



</div>

<h1>Customer List</h1>

<table class="containerCenter" border="2" width="40%" cellpadding="2">

<tr bgcolor="#f58e0f">

<th>Id</th>

<th>Name</th>

<th>Address</th>

<th>Type</th>

<th>Registration Date</th>

<th>Expiration Date</th>

<th>Login ID</th>

<th>Edit</th>

<th>Delete</th>

</tr>

<c:forEach var="customer" items="${list}">

<tr bgcolor="#f5f50f">
```

```

<td>${customer.customerid}</td>

<td>${customer.name}</td>

<td>${customer.address}</td>

<td>${customer.type}</td>

<td>${customer.regdate}</td>

<td>${customer.expdate}</td>

<td>${customer.loginid}</td>

<td><a href="editcustomer/${customer.customerid}">Edit</a></td>

<td><a href="deletecustomer/${customer.customerid}">Delete</a></td>

</tr>

</c:forEach>

</table>

<br /> <a href="customerform">Add New Customer</a>

</div>

<br />

<br />

<a href="index.jsp">Back to Main Page</a>

<br />

<br />

<div class="containerCenter" style="background-color: #f1f1f1">

<p>

```

```

Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana

Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
Kumar C0793379

</p>
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</div>

</body>
</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/viewlogs.jsp

User can view the logs on this page having transaction date, from account, to account, amount etc. This is only for admin users.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>View Logs</title>
</head>

<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

```

```
<style>

@charset "ISO-8859-1";


.center {

    display: block;

    margin-top: 20px;

    margin-bottom: 20px;

    margin-left: auto;

    margin-right: auto;

    width: 50%;

}

body {

    font-family: Arial, Helvetica, sans-serif;

}

form {

    border: 3px solid #f1f1f1;

}

.cancelbtn {

    width: auto;

    padding: 10px 18px;

    background-color: #f44336;

}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;
```

```
    text-align: center;
}

span.psw {
    float: right;
    padding-top: 16px;
}

/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {
        display: block;
        float: none;
    }

    .cancelbtn {
        width: 100%;
    }
}

/* menu */

.navbar {
    overflow: hidden;
    background-color: #333;
}
```

```
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}
```

```
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}  
  
.dropdown-content a:hover {  
    background-color: #ddd;  
}
```

```
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="navbar">  
        <div class="dropdown">  
            <button class="dropbtn">Home</button>
```

```
<div class="dropdown-content">

    <a href="home">Home Page</a>

</div>

</div>

<div class="dropdown">

    <button class="dropbtn">Account</button>

    <div class="dropdown-content">

        <a href="accountform">Create Account</a> <a href="viewaccount">View

        Account</a> <a href="currencyform">Convert

        Currency</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Biller</button>

    <div class="dropdown-content">

        <a href="billerform">Add Biller</a> <a href="viewbiller">View

        Biller</a>

    </div>

</div>

<div class="dropdown">

    <button class="dropbtn">Customer</button>

    <div class="dropdown-content">
```

```
<a href="customerform">Add Customer</a> <a  
href="viewcustomer">View  
Customer</a>  
</div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">User</button>  
    <div class="dropdown-content">  
        <a href="adduser">Add User</a> <a href="viewuser">View  
User</a>  
    </div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Logs</button>  
    <div class="dropdown-content">  
        <a href="viewlogs">View Logs</a>  
    </div>  
</div>  
  
<div class="dropdown">  
    <button class="dropbtn">Logout</button>  
    <div class="dropdown-content">  
        <a href="index.jsp">Logout</a>  
    </div>
```

```
</div>

</div>

<div class="imgcontainer">

</div>

<%@page import="java.sql.DriverManager"%>

<%@page import="java.sql.ResultSet"%>

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.Connection"%>

<%
String driverName = "com.mysql.jdbc.Driver";
String connectionUrl = "jdbc:mysql://localhost:3306/";
String dbName = "Final";
String userId = "root";
String password = "root";

try {
    Class.forName(driverName);
} catch (ClassNotFoundException e) {
    e.printStackTrace();
}
```

```
}

Connection connection = null;

Statement statement = null;

ResultSet resultSet = null;

%>

<h2 align="center">

<font><strong>User Transaction Logs</strong></font>

</h2>

<table align="center" cellpadding="5" cellspacing="5" border="1">

<tr>

</tr>

</table>

<tr bgcolor="#f58e0f">

<td><b>transactionlogid</b></td>

<td><b>transactiondate</b></td>

<td><b>accountid</b></td>

<td><b>toaccountid</b></td>

<td><b>transactionamount</b></td>

</tr>

<%

try {

connection = DriverManager.getConnection(connectionUrl + dbName,
userId, password);

statement = connection.createStatement();

String sql = "SELECT * FROM transactionlog";
```

```
resultSet = statement.executeQuery(sql);

while (resultSet.next()) {

%>

<tr bgcolor="#f5f50f">

<td><%=resultSet.getString("transactionlogid")%></td>
<td><%=resultSet.getString("transactiondate")%></td>
<td><%=resultSet.getString("accountid")%></td>
<td><%=resultSet.getString("toaccountid")%></td>
<td><%=resultSet.getString("transactionamount")%></td>

</tr>

<%
}

} catch (Exception e) {
e.printStackTrace();
}

%>

</table>

<br /> <br /> <a href="index.jsp">Back to Main Page</a> <br /> <br />
```

```

<div class="containerCenter" style="background-color: #f1f1f1">

    <p>

        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana

        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379

    </p>

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</div>

</body>

</html>

```

/Final\_Project/src/main/webapp/WEB-INF/jsp/viewuser.jsp

Users can view the user information, username and password using this page. This is for admin users only.

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
    <head>
        <meta charset="ISO-8859-1">
        <title>View User</title>
    </head>

```

```
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

form {
    border: 3px solid #f1f1f1;
}

.cancelbtn {
    width: auto;
```

```
padding: 10px 18px;  
background-color: #f44336;  
}
```

```
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}
```

```
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}
```

```
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;
```

```
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
  
span.psw {  
    float: right;  
    padding-top: 16px;  
}  
  
  
/* Change styles for span and cancel button on extra small screens */  
  
@media screen and (max-width: 300px) {  
    span.psw {  
        display: block;  
        float: none;  
    }  
    .cancelbtn {  
        width: 100%;  
    }  
}  
  
  
/* menu */  
  
.navbar {  
    overflow: hidden;
```

```
background-color: #333;  
}
```

```
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}
```

```
.dropdown {  
    float: left;  
    overflow: hidden;  
}
```

```
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;
```

```
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    min-width: 160px;  
    box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
}  
  
.dropdown-content a {  
    float: none;  
    color: black;  
    padding: 12px 16px;  
    text-decoration: none;  
    display: block;  
    text-align: left;  
}
```

```
.dropdown-content a:hover {  
    background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
    display: block;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 10px 0 10px 0;  
    padding: 2px 2px 2px 2px;  
}  
  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Assignment 4</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">
```

```
<div class="navbar">

    <div class="dropdown">
        <button class="dropbtn">Home</button>
        <div class="dropdown-content">
            <a href="home">Home Page</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Account</button>
        <div class="dropdown-content">
            <a href="accountform">Create Account</a> <a href="viewaccount">View
            Account</a> <a href="currencyform">Convert
            Currency</a>
        </div>
    </div>

    <div class="dropdown">
        <button class="dropbtn">Biller</button>
        <div class="dropdown-content">
            <a href="billerform">Add Biller</a> <a href="viewbiller">View
            Biller</a>
        </div>
    </div>
```

```
</div>

<div class="dropdown">
    <button class="dropbtn">Customer</button>
    <div class="dropdown-content">
        <a href="customerform">Add Customer</a> <a href="viewcustomer">View Customer</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">User</button>
    <div class="dropdown-content">
        <a href="adduser">Add User</a> <a href="viewuser">View User</a>
    </div>
</div>

<div class="dropdown">
    <button class="dropbtn">Logs</button>
    <div class="dropdown-content">
        <a href="viewlogs">View Logs</a>
    </div>
</div>
```

```

<div class="dropdown">

    <button class="dropbtn">Logout</button>

    <div class="dropdown-content">

        <a href="index.jsp">Logout</a>

    </div>

</div>

<div class="imgcontainer">

</div>

<h1>Users List</h1>

<table class="containerCenter" border="2" width="24%" cellpadding="2">

    <tr bgcolor="#f58e0f">

        <th>User ID</th>

        <th>Username</th>

        <th>Password</th>

        <th>Edit</th>

        <th>Delete</th>

    </tr>

    <c:forEach var="login" items="${list}">

        <tr bgcolor="#f5f50f">

            <td>${login.loginid}</td>

            <td>${login.username}</td>

```

```

<td>${login.password}</td>

<td><a href="edituser/${login.loginid}">Edit</a></td>

<td><a href="deleteuser/${login.loginid}">Delete</a></td>

</tr>

</c:forEach>

</table>

<br /> <a href="adduser">Add New User</a>

</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">

<p>

    Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
    C0796429<br>Meghana

    Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
    Kumar C0793379

</p>

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</div>

```

```
</body>  
</html>
```

/Final\_Project/src/main/webapp/WEB-INF/jsp/withdrawerror.jsp

User would see the withdraw error if their account balance happen to become less than \$500 after withdraw then withdraw transaction would not occur as the minimum balance required in account is \$500. This page is for both admin and non admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"  
    pageEncoding="ISO-8859-1"%>  
  
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
<meta charset="ISO-8859-1">  
  
<title>Withdraw Error</title>  
  
</head>  
  
  
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>  
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>  
  
  
<style>  
@charset "ISO-8859-1";  
  
  
.center {  
    display: block;  
    margin-top: 20px;
```

```
margin-bottom: 20px;  
margin-left: auto;  
margin-right: auto;  
width: 50%;  
}  
  
body {  
font-family: Arial, Helvetica, sans-serif;  
}  
  
form {  
border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
width: auto;  
padding: 10px 18px;  
background-color: #f44336;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 24px 0 12px 0;  
}
```

```
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
.containerCenter {  
    padding: 10px;  
    display: block;  
    margin-top: 10px;  
    margin-bottom: 10px;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: center;  
}  
  
span.psw {  
    float: right;  
    padding-top: 16px;
```

```
}

/* Change styles for span and cancel button on extra small screens */

@media screen and (max-width: 300px) {

    span.psw {

        display: block;
        float: none;
    }

    .cancelbtn {

        width: 100%;
    }
}

/* menu */

.navbar {

    overflow: hidden;
    background-color: #333;
}

.navbar a {

    float: left;
    font-size: 16px;
    color: white;
    text-align: center;
    padding: 14px 16px;
}
```

```
text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {  
    font-size: 16px;  
    border: none;  
    outline: none;  
    color: white;  
    padding: 14px 16px;  
    background-color: inherit;  
    font-family: inherit;  
    margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
    background-color: red;  
}  
  
.dropdown-content {  
    display: none;
```

```
position: absolute;  
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
float: none;  
color: black;  
padding: 12px 16px;  
text-decoration: none;  
display: block;  
text-align: left;  
}  
  
.dropdown-content a:hover {  
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
display: block;  
}  
  
.imgcontainer {
```

```
text-align: center;  
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">  
    <p>Final Project</p>  
    <p>CSD-4464 Programming Java EE</p>  
</div>  
  
<div class="container">  
    <div class="imgcontainer">  
          
    </div>  
    <h1>Sorry! You cannot Withdraw/Transfer entered amount!</h1>
```

```
<h4>The minimum account balance required is: $500</h4>
<h4>Transaction Limit is: $1000 per day</h4>

<br /><a href="accountform">Add New Account</a>
</div>

<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
<p>
    Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
C0796429<br>Meghana
Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
Kumar C0793379
</p>
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</div>

</body>
</html>
```

/Final\_Project/src/main/webapp/WEB-INF/spring-servlet.xml

This page contains the configuration of Java MVC Spring.

```
<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:p="http://www.springframework.org/schema/p"
    xmlns:context="http://www.springframework.org/schema/context"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-3.0.xsd">

<context:component-scan base-package="com.amsvy.finalproject.controller"></context:component-scan>

<bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
    <property name="prefix" value="/WEB-INF/jsp/"></property>
    <property name="suffix" value=".jsp"></property>
</bean>

<bean id="ds" class="org.springframework.jdbc.datasource.DriverManagerDataSource">
    <property name="driverClassName" value="com.mysql.cj.jdbc.Driver"></property>
    <property name="url" value="jdbc:mysql://localhost:3306/Final"></property>
    <property name="username" value="root"></property>
    <property name="password" value="root"></property>
</bean>
```

```
<bean id="jt" class="org.springframework.jdbc.core.JdbcTemplate">

<property name="dataSource" ref="ds"></property>

</bean>

<bean id="daoA" class="com.amsvy.finalproject.dao.AccountDao">

<property name="template" ref="jt"></property>

</bean>

<bean id="daoB" class="com.amsvy.finalproject.dao.BillerDao">

<property name="template" ref="jt"></property>

</bean>

<bean id="daoC" class="com.amsvy.finalproject.dao.CustomerDao">

<property name="template" ref="jt"></property>

</bean>

<bean id="daoL" class="com.amsvy.finalproject.dao.LoginDao">

<property name="template" ref="jt"></property>

</bean>

</beans>
```

/Final\_Project/src/main/webapp/WEB-INF/web.xml

This page contains the configuration of project setup.

```
<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://Java.sun.com/xml/ns/javaee" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
  http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" id="WebApp_ID" version="3.0">

  <display-name>SpringMVC</display-name>

  <servlet>

    <servlet-name>spring</servlet-name>

    <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>

    <load-on-startup>1</load-on-startup>

  </servlet>

  <servlet>

    <description>
    </description>

    <display-name>LoginController</display-name>

    <servlet-name>LoginController</servlet-name>

    <servlet-class>com.amsvy.finalproject.controller.LoginController</servlet-class>

  </servlet>

  <servlet-mapping>

    <servlet-name>spring</servlet-name>

    <url-pattern>/</url-pattern>

  </servlet-mapping>

  <servlet-mapping>

    <servlet-name>LoginController</servlet-name>

    <url-pattern>/LoginController</url-pattern>

  </servlet-mapping>

</web-app>
```

/Final\_Project/src/main/webapp/index.jsp

This is main page of the project from where the execution starts. It contains the login option in the menu. This page is designed for both admin as well as non admin users.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>
<head>
<title>Index</title>
</head>
<style>
@charset "ISO-8859-1";

.center {
    display: block;
    margin-top: 20px;
    margin-bottom: 20px;
    margin-left: auto;
    margin-right: auto;
    width: 50%;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}
```

```
form {  
    border: 3px solid #f1f1f1;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #f44336;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;  
}  
  
img.avatar {  
    width: 10%;  
    border-radius: 25%;  
}  
  
.container {  
    padding: 16px;  
    margin-left: auto;  
    margin-right: auto;
```

```
text-align: center;  
}  
  
.containerCenter {  
padding: 10px;  
display: block;  
margin-top: 10px;  
margin-bottom: 10px;  
margin-left: auto;  
margin-right: auto;  
text-align: center;  
}  
  
span.psw {  
float: right;  
padding-top: 16px;  
}  
  
/* Change styles for span and cancel button on extra small screens */  
 @media screen and (max-width: 300px) {  
span.psw {  
display: block;  
float: none;  
}  
.cancelbtn {
```

```
    width: 100%;  
}  
}  
  
/* menu */  
  
.navbar {  
    overflow: hidden;  
    background-color: #333;  
}  
  
.navbar a {  
    float: left;  
    font-size: 16px;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.dropdown {  
    float: left;  
    overflow: hidden;  
}  
  
.dropdown .dropbtn {
```

```
font-size: 16px;  
border: none;  
outline: none;  
color: white;  
padding: 14px 16px;  
background-color: inherit;  
font-family: inherit;  
margin: 0;  
}  
  
.navbar a:hover, .dropdown:hover .dropbtn {  
background-color: red;  
}  
  
.dropdown-content {  
display: none;  
position: absolute;  
background-color: #f9f9f9;  
min-width: 160px;  
box-shadow: 0px 8px 16px 0px rgba(0, 0, 0, 0.2);  
z-index: 1;  
}  
  
.dropdown-content a {  
float: none;
```

```
color: black;  
padding: 12px 16px;  
text-decoration: none;  
display: block;  
text-align: left;  
}  
  
.dropdown-content a:hover {  
background-color: #ddd;  
}  
  
.dropdown:hover .dropdown-content {  
display: block;  
}  
  
.imgcontainer {  
text-align: center;  
margin: 10px 0 10px 0;  
padding: 2px 2px 2px 2px;  
}  
</style>  
  
<body>  
  
<div class="containerCenter" style="background-color: #f1f1f1">
```

```
<p>Final Project</p>

<p>CSD-4464 Programming Java EE</p>

</div>

<form>

<div class="container">

    <div class="navbar">

        <div class="dropdown">

            <button class="dropbtn">Login</button>

            <div class="dropdown-content">

                <a href="/login">Login</a>

            </div>

        </div>

    </div>

</div>

</form>

<div class="imgcontainer">

</div>
```

```
<br />
<br />
<a href="index.jsp">Back to Main Page</a>
<br />
<br />

<div class="containerCenter" style="background-color: #f1f1f1">
    <p>
        Group Members:<br>Yamini Rathod C0796390<br>Anirudh Vallampatla
        C0796429<br>Meghana
        Kondaveeti C0784302<br>Srikanth Ajith Kumar Yarram C0793406<br>Vishal
        Kumar C0793379
    </p>
    &copy W2022 GROUP E
</div>

</body>
</html>
```

## MySQL Queries

```
create database Final;
```

```
use Final;
```

---

```
create table `Final`.`login`  
(`loginid` INT PRIMARY KEY AUTO_INCREMENT,  
`username` VARCHAR(45),  
`password` VARCHAR(45),  
`isadmin` boolean  
);
```

```
ALTER TABLE login AUTO_INCREMENT=100;
```

```
select * from account;
```

```
create table `Final`.`account`  
(`accountid` INT PRIMARY KEY AUTO_INCREMENT,  
`name` VARCHAR(45),  
`emailid` VARCHAR(45),  
`transferemailid` VARCHAR(45),  
`address` VARCHAR(45),  
`accounttype` VARCHAR(45),  
`balance` double(10,2),  
`depositamount` double(10,2),  
`withdrawamount` double(10,2),  
`transferaccountid` INT,  
`transferamount` double(10,2),  
`accountdate` DATE,
```

```
`accountexpdate` DATE,  
 `fromamount` double(10,2),  
 `toamount` double(10,2),  
 `loginid` INT);  
  
-- FK.....  
  
ALTER TABLE account  
ADD CONSTRAINT FK_loginid_account_FK_login  
FOREIGN KEY (loginid) REFERENCES login(loginid);  
  
ALTER TABLE account AUTO_INCREMENT=100;  
  
create table `Final`.`biller`  
(`billerid` INT PRIMARY KEY AUTO_INCREMENT,  
 `name` VARCHAR(45),  
 `address` VARCHAR(45),  
 `totalamount` double(10,2),  
 `amounttopay` double(10,2) default 0,  
 `accountid` int);  
  
ALTER TABLE biller AUTO_INCREMENT=100;  
  
ALTER TABLE biller  
ADD CONSTRAINT FK_accountid_account_FK_biller  
FOREIGN KEY (accountid) REFERENCES account(accountid);
```

```
create table `Final`.`billerlog`  
(`billerlogid` INT PRIMARY KEY AUTO_INCREMENT,  
 `transactiondate` TIMESTAMP,  
 `billerid` INT,  
 `accountid` INT);
```

```
ALTER TABLE billerlog  
ADD CONSTRAINT FK_billerid_billerlog_FK_biller  
FOREIGN KEY (billerid) REFERENCES biller(billerid);
```

```
ALTER TABLE billerlog  
ADD CONSTRAINT FK_accountid_billerlog_FK_account  
FOREIGN KEY (accountid) REFERENCES account(accountid);
```

```
ALTER TABLE billerlog AUTO_INCREMENT=1;
```

```
select * from billerlog;
```

```
create table `Final`.`customer`  
(`customerid` INT PRIMARY KEY AUTO_INCREMENT,  
 `name` VARCHAR(45),  
 `address` VARCHAR(45),  
 `type` VARCHAR(45),  
 `regdate` DATE,
```

```
`expdate` DATE,  
 `loginid` INT);  
  
-- FK.....  
  
ALTER TABLE customer  
ADD CONSTRAINT FK_loginid_customer_FK_login  
FOREIGN KEY (loginid) REFERENCES login(loginid);  
  
  
create table `Final`.`transactionlog`  
(`transactionlogid` INT PRIMARY KEY AUTO_INCREMENT,  
 `transactiondate` TIMESTAMP,  
 `accountid` INT,  
 `toaccountid` INT,  
 `transactionamount` double(10,2) DEFAULT 0);  
  
  
ALTER TABLE transactionlog  
ADD CONSTRAINT FK_accountid_transactionlog_FK_account  
FOREIGN KEY (accountid) REFERENCES account(accountid);  
  
  
ALTER TABLE transactionlog AUTO_INCREMENT=1;  
  
  
select * from transactionlog;
```

# Output and User Manual

## Project Structure

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the package structure:
  - src/main/java:
    - com.amsvy.finalproject.beans
    - com.amsvy.finalproject.controller
    - com.amsvy.finalproject.dao
    - src/test/java
  - JRE System Library [JavaSE-1.7]
  - Maven Dependencies
  - Server Runtime [Apache Tomcat v9.0 (2)]
- Code Editor:** Displays the content of index.jsp, which includes JSP code and CSS styles.
- Console:** Shows logs from Tomcat 9.0 Server at localhost, including a deprecation warning about the com.mysql.jdbc.Driver class.
- Properties View:** Shows properties for a selected file, including "derived" and "editable" status.
- System Tray:** Shows icons for battery (8°C), network, and system status.

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the package structure, identical to the first screenshot.
- Code Editor:** Displays the content of index.jsp, which includes JSP code and CSS styles.
- Console:** Shows logs from Tomcat 9.0 Server at localhost, including a deprecation warning about the com.mysql.jdbc.Driver class.
- Properties View:** Shows properties for a selected file, including "derived" and "editable" status.
- System Tray:** Shows icons for battery (8°C), network, and system status.

eclipse-workspace - Final\_Project/src/main/webapp/WEB-INF/jsp/withdrawerror.jsp - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer viewaccount.jsp viewbillier.jsp viewbillier.jsp viewcurrenc... viewcurrenc... viewcurrenc... viewcurrenc... viewlog.jsp viewuser.jsp withdrawerro...
currencyform.jsp
customereditform.jsp
customerform.jsp
home_nonadmin.jsp
home.jsp
interactionmoneyform_nonadmin.jsp
interactionmoneyform.jsp
login.jsp
LoginFailed.jsp
paybillform_nonadmin.jsp
paybillform.jsp
usereditform.jsp
viewaccount_nonadmin_getlogin.jsp
viewaccount_nonadmin.jsp
viewaccount.jsp
viewbillier_nonadmin.jsp
viewbillier.jsp
viewcurrency_nonadmin.jsp
viewcurrency.jsp
viewcustomer.jsp
viewlogs.jsp
viewuser.jsp
withdrawerror.jsp
spring-servlet.xml
web.xml
index.jsp
test
target
pom.xml
spring-context-5.3.16.jar
Maven_Class_Practice_Yamini_Rathod
Project
Sample_CURD
Sample_Login_Logout
Sample_Maven_Webapps
Sample_Maven_Webapps_New
SampleMaven_Week4_Yamini_Rathod
Assignment1_Group_E

```

Console

```

Tomcat v9.0 Server at localhost [Apache Tomcat/C:/Users/Yamini Chirag Swami/p2pool/plugins/org.eclipse.jdt.core]
at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(Thread.java:833)
at java.base/java.lang.Thread.run(Thread.java:833)

Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class

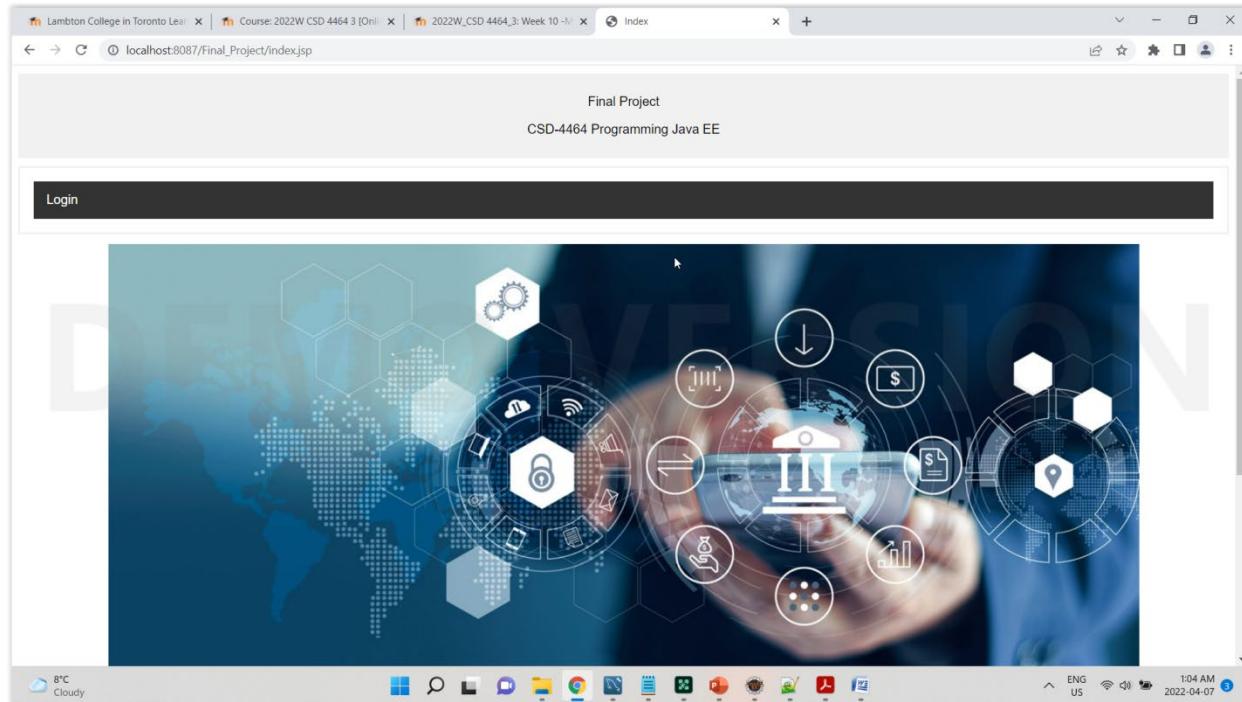
```

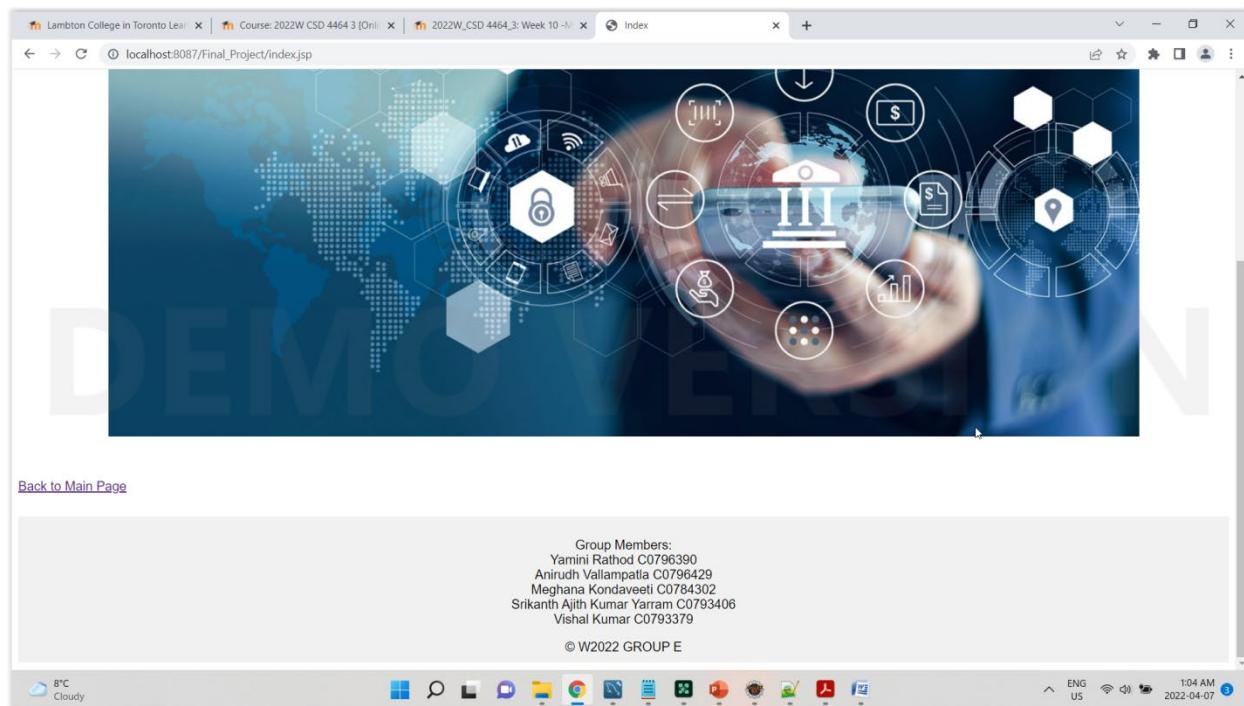
Properties

Property	Value
derived	false
editable	true
last modified	January 30, 2022, 5:14:53 p.m.

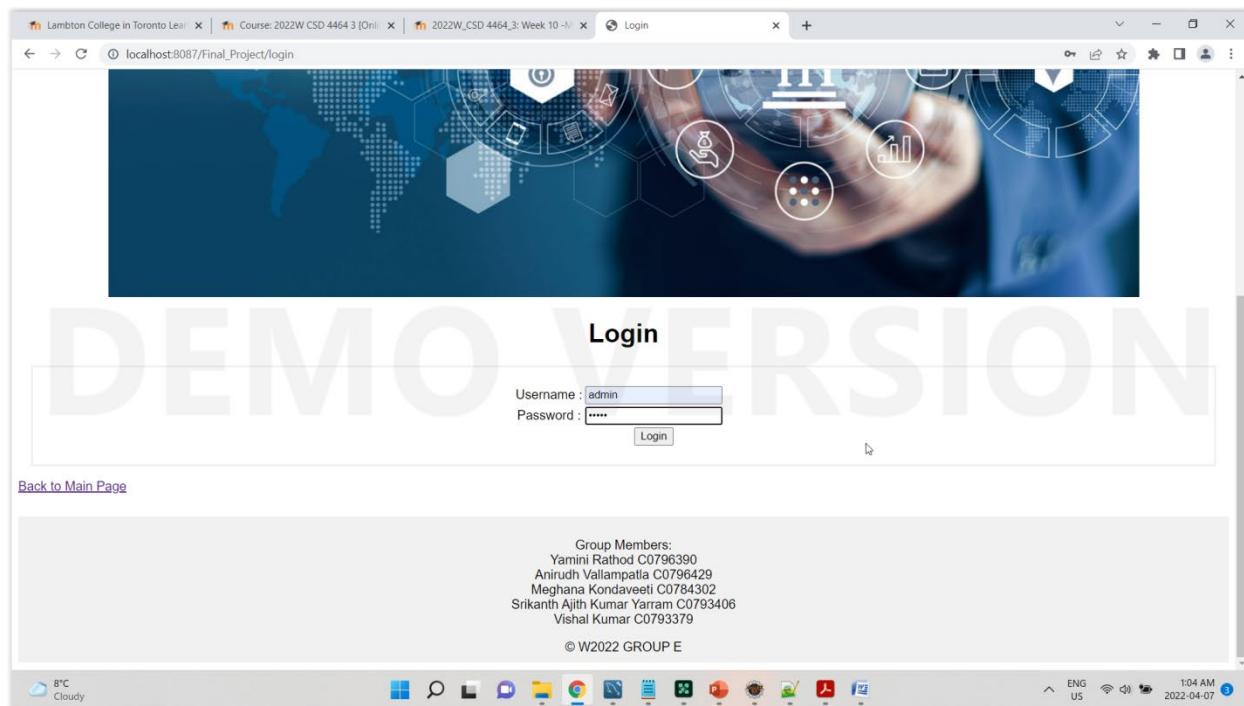
8°C Cloudy 1:03 AM 2022-04-07

## Login Page

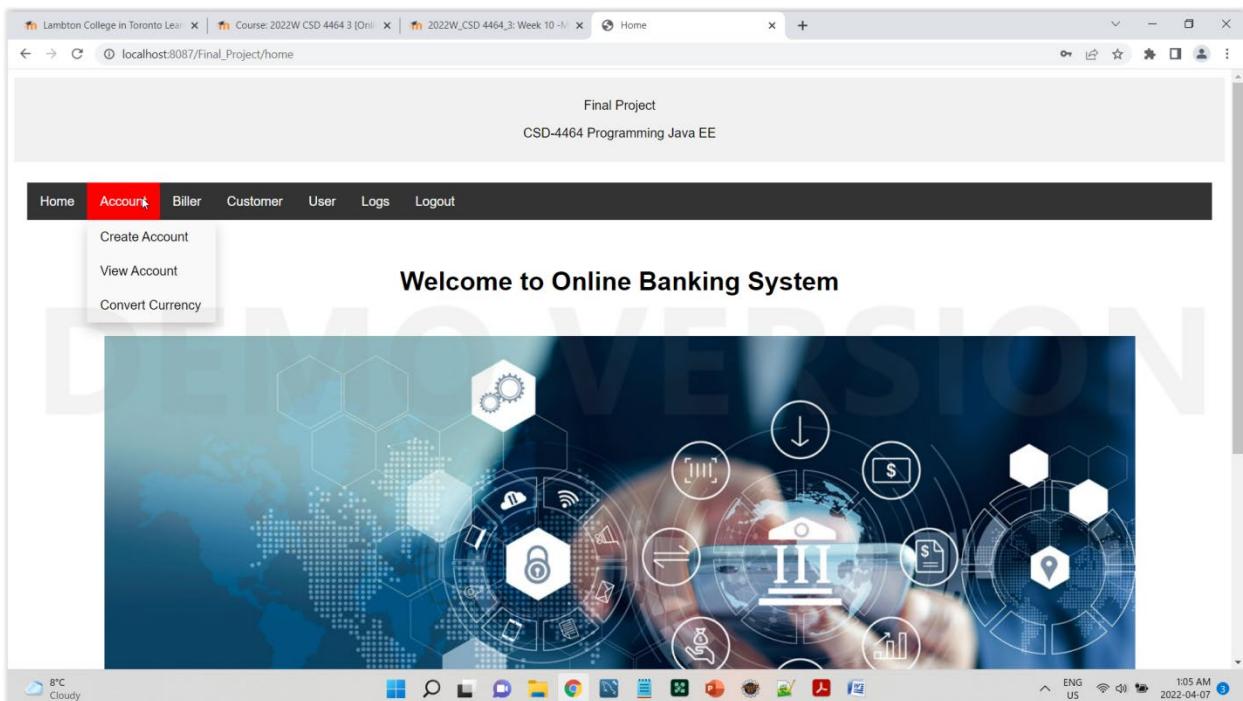
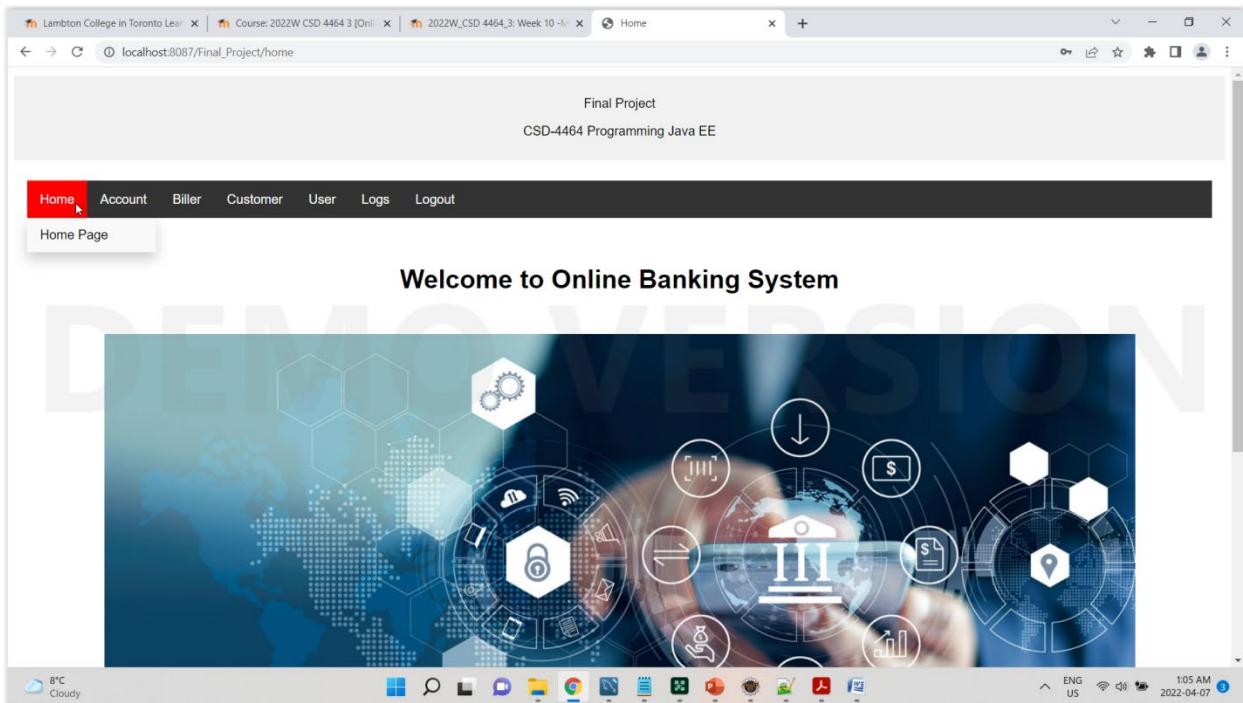


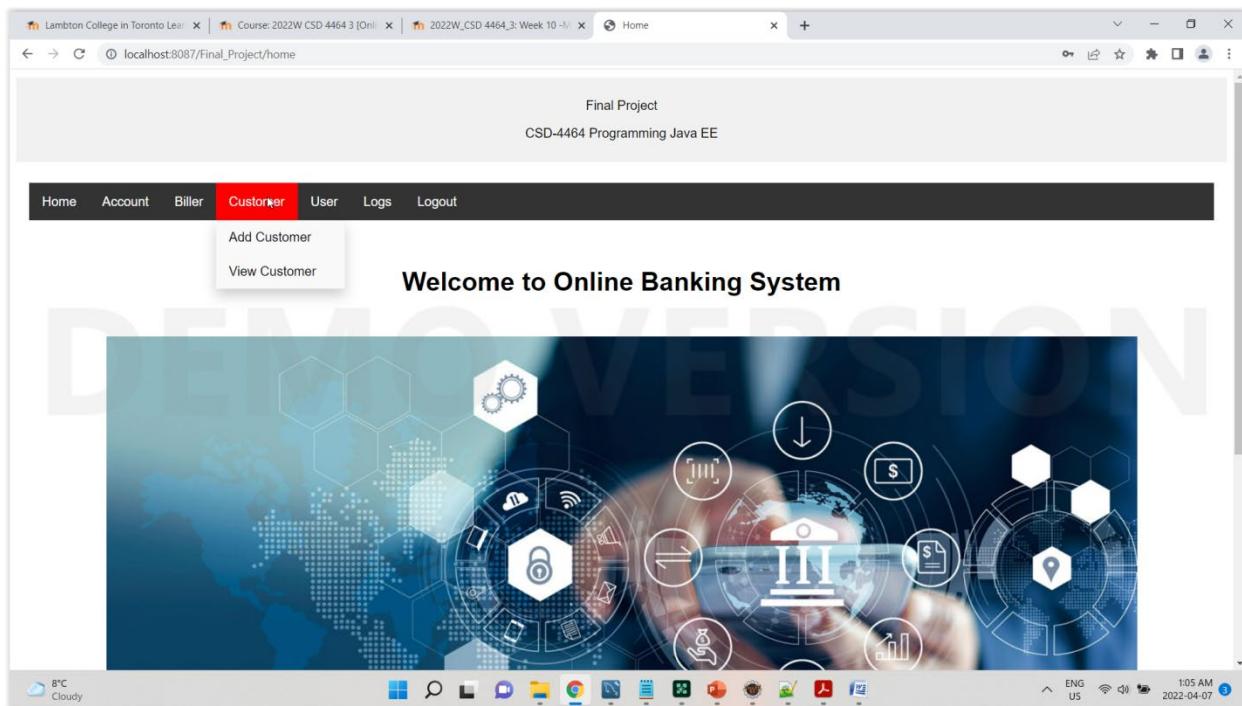
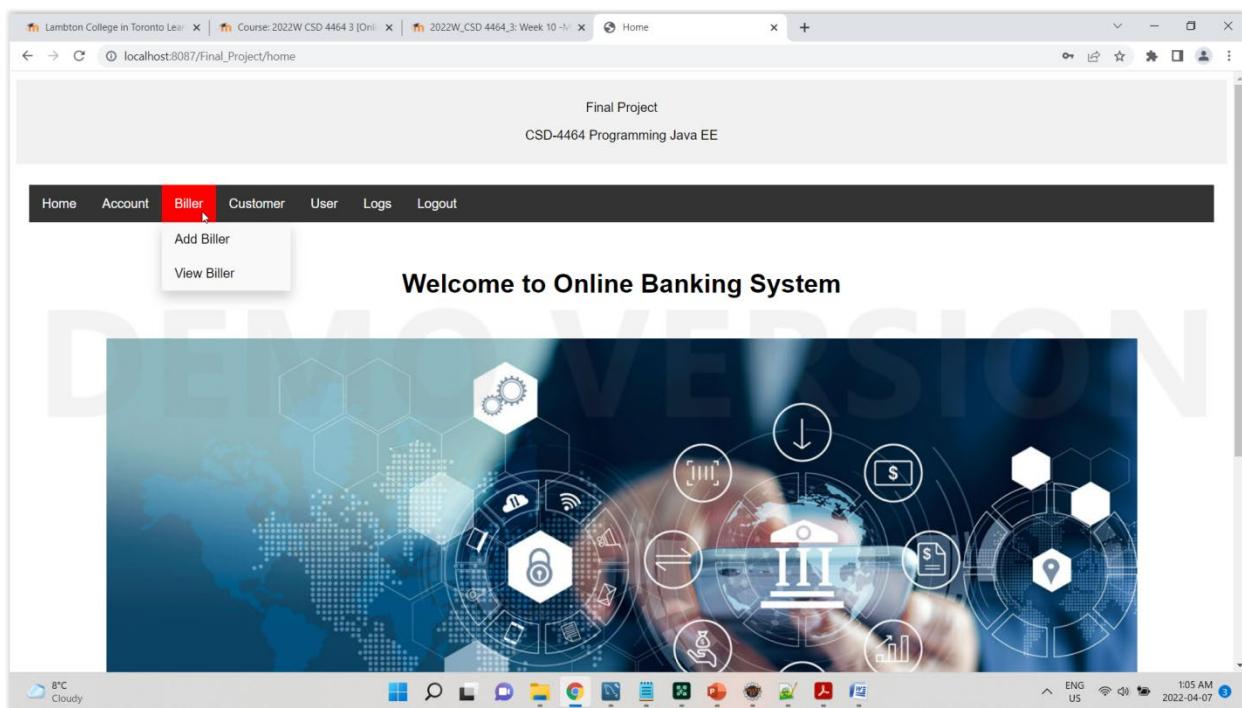


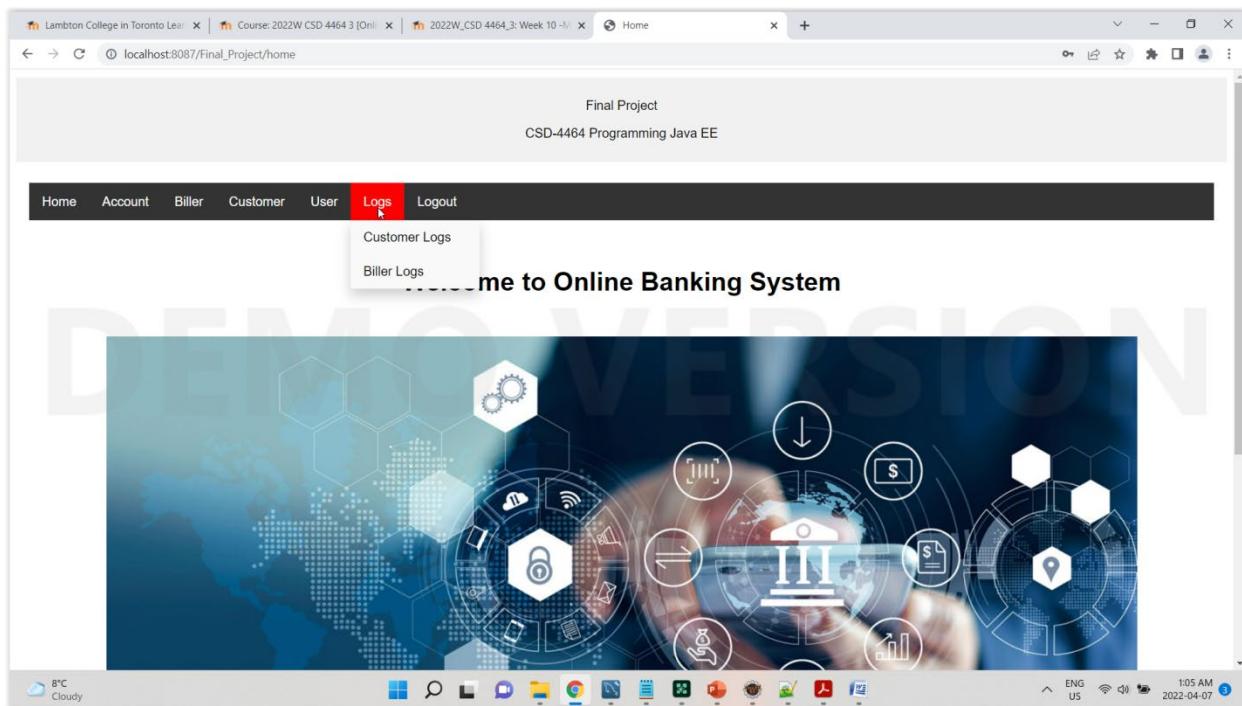
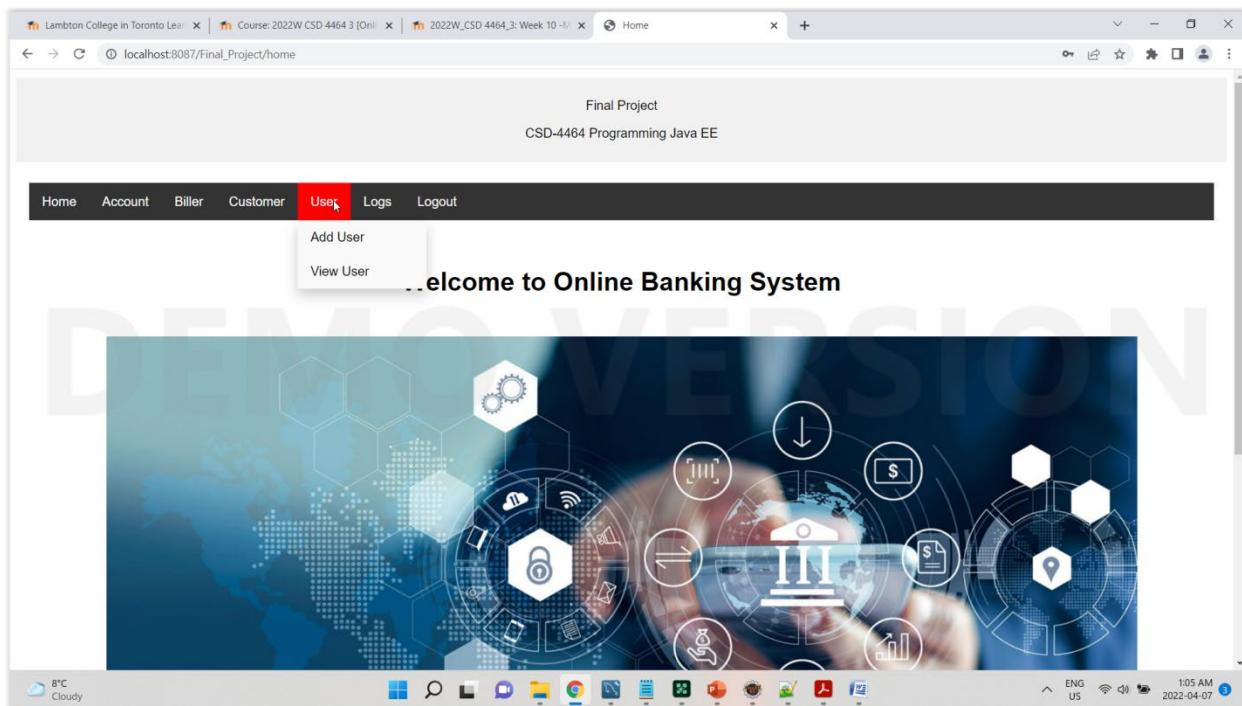
## Login As Admin

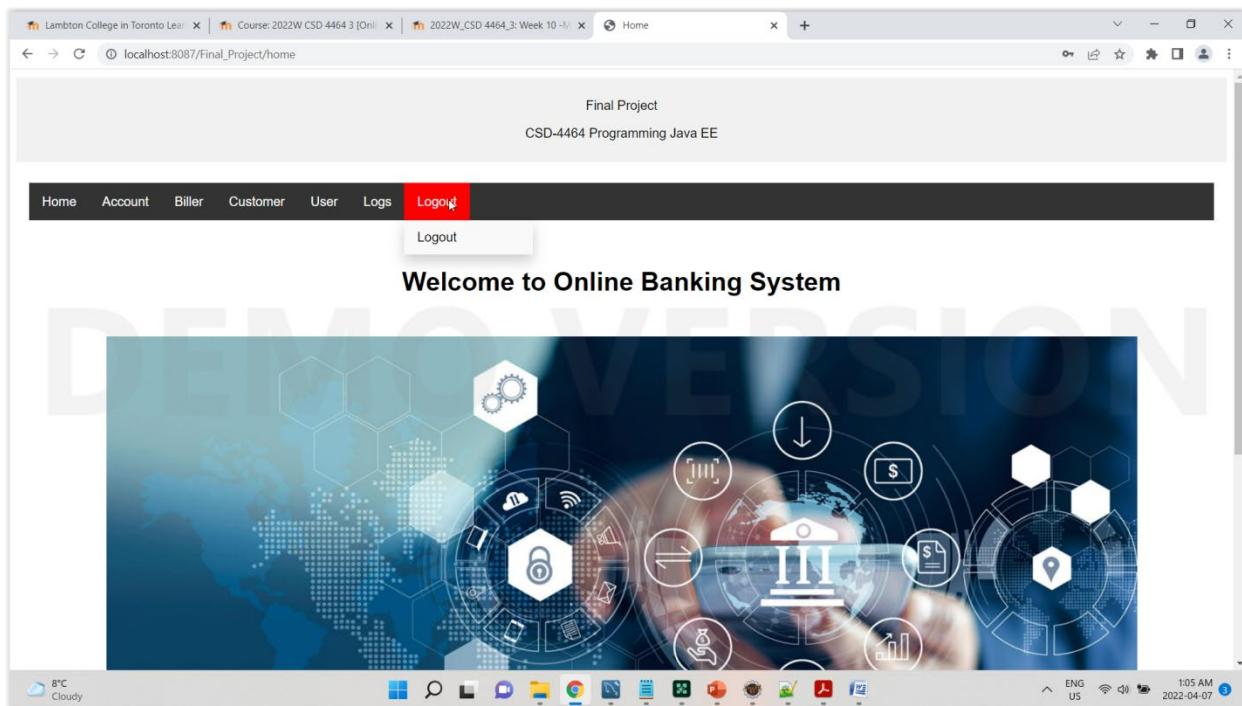


Admin can view all options in Menu









## Add New Account

The screenshot shows a web browser window for the 'Account Form' at 'localhost:8087/Final\_Project/accountform'. The title of the page is 'Add New Account'. The form contains fields for Name, Email, Address, Account Type, Balance, Account Membership Date, Account Expiration Date, and Login ID. The 'Balance' field is set to 1500.00. The 'Account Membership Date' is 2022-04-01 and the 'Account Expiration Date' is 2022-10-27. The 'Login ID' field has the value '2'. A 'Register Account' button is visible at the bottom right of the form. Below the form, there is a section titled 'Group Members:' listing several names and their corresponding C0793379 numbers. The system status bar at the bottom shows '8°C Cloudy', the date '2022-04-07', and the time '1:06 AM'.

## Account Added

Id	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	2360.0	2022-04-06	2022-05-04	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
101	Testing	abc5@gmail.com	123 King Road	Checking	1255.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	1500.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

[Add New Account](#)

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampati C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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8°C Cloudy ENG US 10:07 AM 2022-04-07

## Edit Account

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampati C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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## Account Edited

Lambton College in Toronto Lear | Course: 2022W CSD 4464 3 [Onli | 2022W\_CSD 4464\_3; Week 10 - | View Account

localhost:8087/Final\_Project/viewaccount

### Account List

Id	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	2360.0	2022-04-06	2022-05-04	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
101	Testing	abc5@gmail.com	123 King Road	Checking	1255.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2500.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

[Add New Account](#)

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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## Deposit Money

Lambton College in Toronto Lear | Course: 2022W CSD 4464 3 [Onli | 2022W\_CSD 4464\_3; Week 10 - | Account Deposit Form

localhost:8087/Final\_Project/accountdeposit/102

### Deposit Money

Current Balance :   
Enter Amount :

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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## Money Deposited

The screenshot shows a web browser window titled "View Account" with the URL "localhost:8087/Final\_Project/viewaccount". The main content is titled "Account List" and displays a table of account information:

ID	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	2360.0	2022-04-06	2022-05-04	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
101	Testing	abc5@gmail.com	123 King Road	Checking	1255.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2800.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

Below the table is a link "Add New Account". The status bar at the bottom shows "8°C Cloudy", "ENG US", "2022-04-07", and "1:08 AM".

## Withdraw Money

The screenshot shows a web browser window titled "Account Withdraw Form" with the URL "localhost:8087/Final\_Project/accountwithdraw/102". The main content is titled "Withdraw Money" and displays a form:

Current Balance :   
Enter Amount :

The status bar at the bottom shows "8°C Cloudy", "ENG US", "2022-04-07", and "1:08 AM".

## Withdraw Money

Account List

Id	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	2360.0	2022-04-06	2022-05-04	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
101	Testing	abc5@gmail.com	123 King Road	Checking	1255.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2550.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

Add New Account

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yaram C0793406  
Vishal Kumar C0793379

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8°C Cloudy ENG US 10:08 AM 2022-04-07

## Transfer Money From Account 102 to 101

Transfer Money

Current Balance :   
Enter Transfer Account No. :   
Enter Transfer Amount :  Transfer Amount

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yaram C0793406  
Vishal Kumar C0793379

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## Transferred Money

Account List

Id	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	2360.0	2022-04-06	2022-05-04	1	Edit	Delete	Deposit	Withdraw	Transfer	Interact
101	Testing	abc5@gmail.com	123 King Road	Checking	1280.0	2022-04-06	2022-05-05	2	Edit	Delete	Deposit	Withdraw	Transfer	Interact
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2525.0	2022-04-01	2022-10-27	2	Edit	Delete	Deposit	Withdraw	Transfer	Interact

Add New Account

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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8°C Cloudy ENG US 2022-04-07 11:17 AM

## Interact Money from Account 102 to 100

Interact Money

Current Balance :

Enter Transfer Email ID :

Enter Transfer Amount :

Interact Amount

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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8°C Cloudy ENG US 2022-04-07 11:19 AM

## Interacted Money

The screenshot shows a web browser window titled "View Account" with the URL "localhost:8087/Final\_Project/viewaccount". The main content is titled "Account List" and displays a table of account information:

Id	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	2370.0	2022-04-06	2022-05-04	1	Edit	Delete	Deposit	Withdraw	Transfer	Interact
101	Testing	abc5@gmail.com	123 King Road	Checking	1280.0	2022-04-06	2022-05-05	2	Edit	Delete	Deposit	Withdraw	Transfer	Interact
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2515.0	2022-04-01	2022-10-27	2	Edit	Delete	Deposit	Withdraw	Transfer	Interact

Below the table is a link "Add New Account". The footer contains "Group Members:" followed by a list of names and their IDs. The system status bar at the bottom shows "8°C Cloudy", "ENG US", "2022-04-07 11:19 AM", and a battery icon.

## Currency Conversion

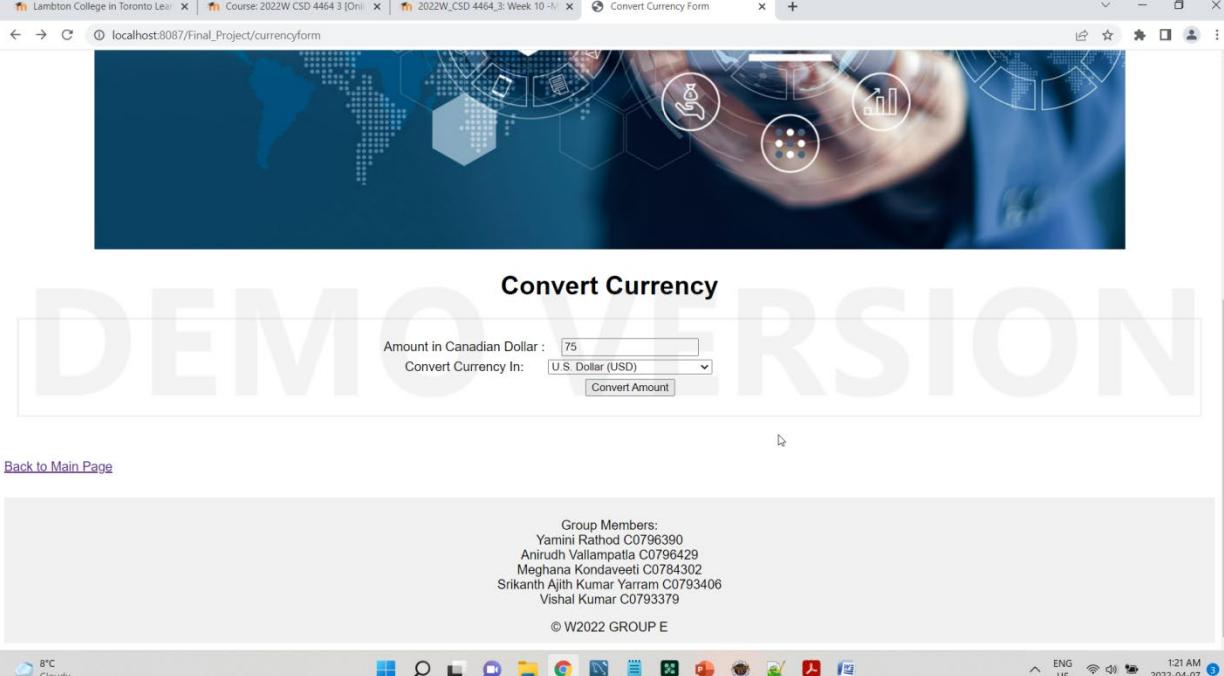
The screenshot shows a web browser window titled "Convert Currency Form" with the URL "localhost:8087/Final\_Project/currencyform". The main content is titled "Convert Currency" and displays a form with the following fields:

Amount in Canadian Dollar:

Convert Currency In:  (A dropdown menu is open, showing "Indian (Rupee)" highlighted, along with other options: U.S. Dollar (USD), British Pound (GBP), Swiss Franc (CHF), Japanese Yen (JPY), Australian/New Zealand Dollar, and South African Rand (ZAR)).

Below the form is a "Group Members:" section with a list of names and their IDs. The system status bar at the bottom shows "8°C Cloudy", "ENG US", "2022-04-07 1:20 AM", and a battery icon.

Converted from CAD to USD



Lambton College In Toronto Lear Course: 2022W CSD 4464 3 [On] 2022W\_CSD 4464\_3: Week 10 - Convert Currency Form

localhost:8087/Final\_Project/currencyform

## Convert Currency

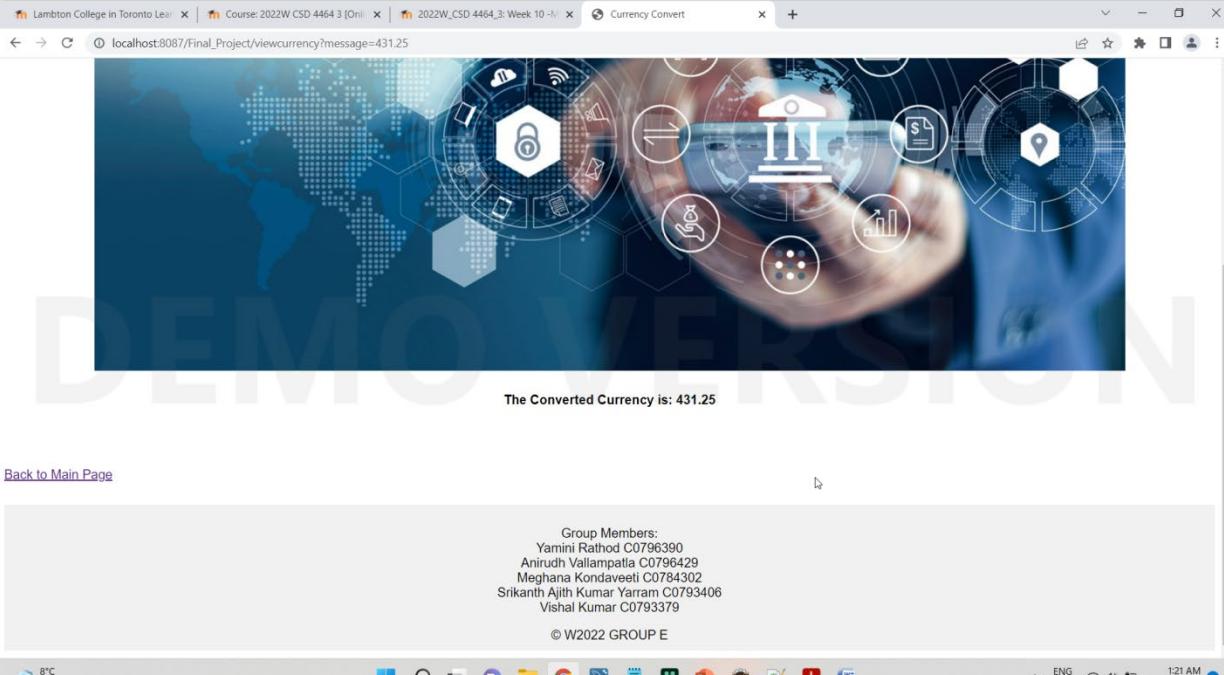
Amount in Canadian Dollar:  Convert Currency In:

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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8°C Cloudy ENG US 12:01 AM 2022-04-07



Lambton College In Toronto Lear Course: 2022W CSD 4464 3 [On] 2022W\_CSD 4464\_3: Week 10 - Currency Convert

localhost:8087/Final\_Project/viewcurrency?message=431.25

## Currency Convert

The Converted Currency is: 431.25

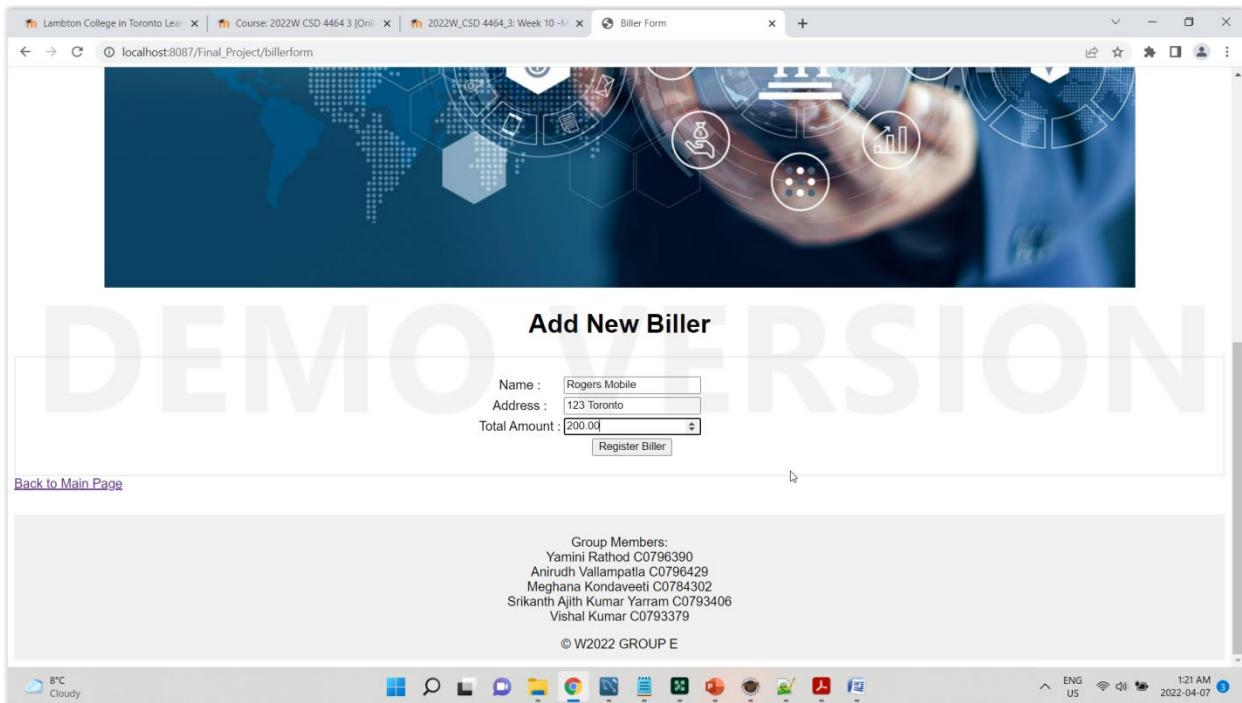
[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

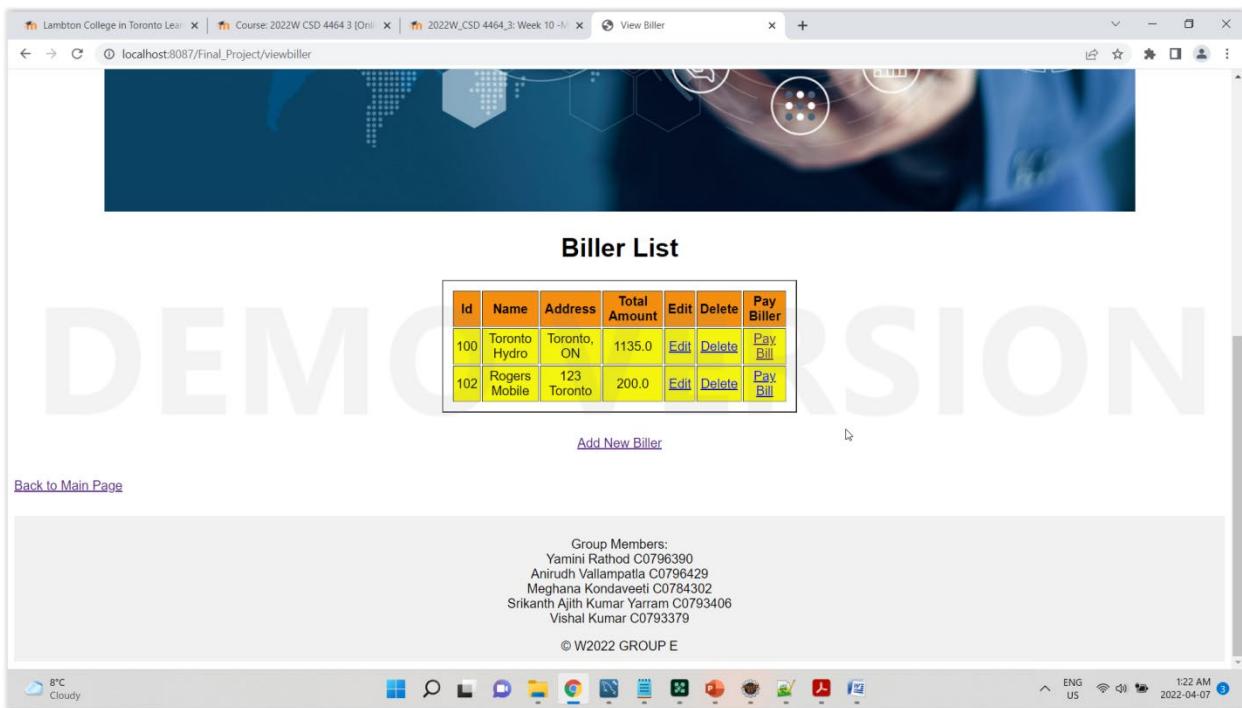
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8°C Cloudy ENG US 12:01 AM 2022-04-07

## Add Biller



Biller Added



## Edit Biller

Name :

Address :

Total Amount

Group Members:

Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondeveti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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Biller Edited

ID	Name	Address	Total Amount	Edit	Delete	Pay Bill
100	Toronto Hydro	Toronto, ON	1135.0	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Pay Bill</a>
102	Rogers Mobile	123 Toronto	250.0	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Pay Bill</a>

[Add New Biller](#)

Group Members:

Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondeveti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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## Paying \$20 from Account 100 to Biller ID 2

Id	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	2370.0	2022-04-06	2022-05-04	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
101	Testing	abc5@gmail.com	123 King Road	Checking	1280.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2515.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

[Add New Account](#)

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondeveti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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8°C Cloudy 1:24 AM 2022-04-07 ENG US

## Pay Biller

Pay Bills Form

Account ID :

Amount To :

Pay :

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondeveti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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8°C Cloudy 1:24 AM 2022-04-07 ENG US

## Paid Biller

The screenshot shows a web browser window titled "View Biller" with the URL "localhost:8087/Final\_Project/viewbiller". The page has a header "Biller List" and a large watermark "DEMOCRSION" across the center. Below the header is a table with the following data:

ID	Name	Address	Total Amount	Edit	Delete	Pay Biller
100	Toronto Hydro	Toronto, ON	1135.0	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Pay Bill</a>
102	Rogers Mobile	123 Toronto	270.0	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Pay Bill</a>

At the bottom left is a link "Add New Biller" and at the bottom right is a link "Back to Main Page". The system status bar at the bottom shows "8°C Cloudy", "ENG US", "1:25 AM 2022-04-07", and a battery icon.

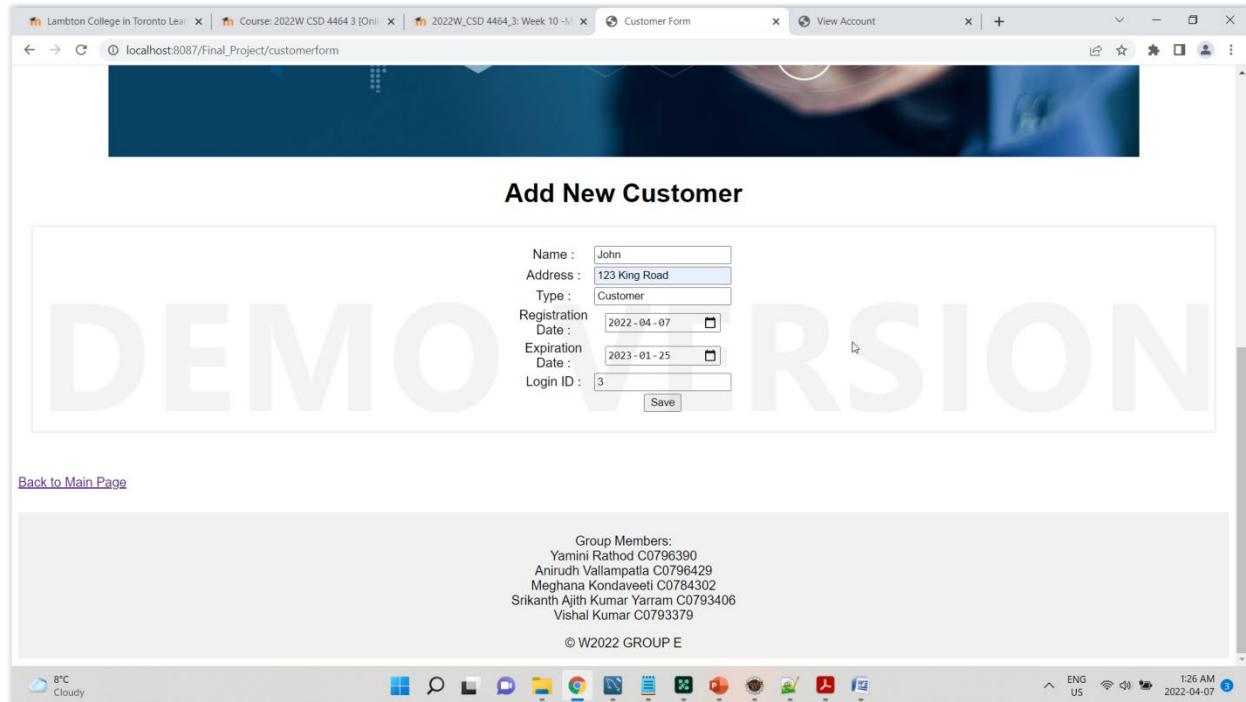
## Money Deducted From Customer Account

The screenshot shows a web browser window titled "View Account" with the URL "localhost:8087/Final\_Project/viewaccount". The page has a header "Account List" and a large watermark "DEMOCRSION" across the center. Below the header is a table with the following data:

ID	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	2350.0	2022-04-06	2022-05-04	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
101	Testing	abc5@gmail.com	123 King Road	Checking	1280.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2515.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

At the bottom left is a link "Add New Account" and at the bottom right is a link "Back to Main Page". The system status bar at the bottom shows "8°C Cloudy", "ENG US", "1:25 AM 2022-04-07", and a battery icon.

## Add Customer



Name : John  
Address : 123 King Road  
Type : Customer  
Registration Date : 2022-04-07  
Expiration Date : 2023-01-25  
Login ID : 3

[Save](#)

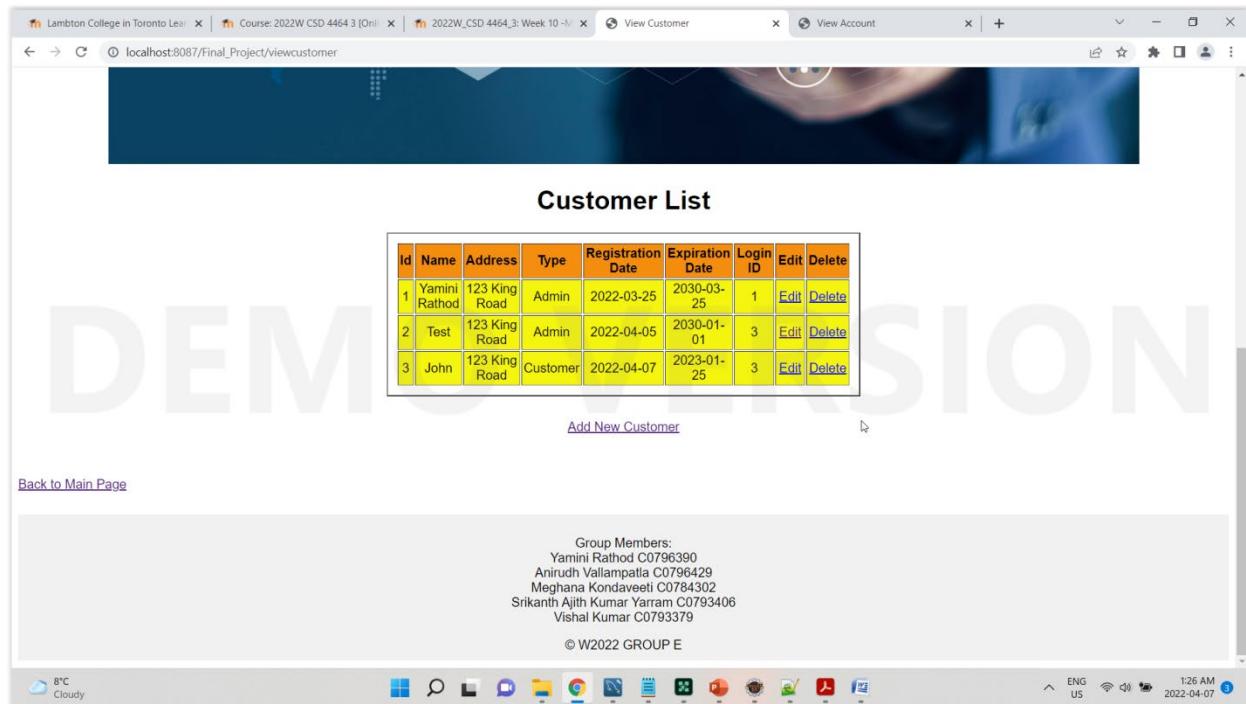
[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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8°C Cloudy 1:26 AM 2022-04-07 ENG US

Customer Added



### Customer List

ID	Name	Address	Type	Registration Date	Expiration Date	Login ID	Edit	Delete
1	Yamini Rathod	123 King Road	Admin	2022-03-25	2030-03-25	1	<a href="#">Edit</a>	<a href="#">Delete</a>
2	Test	123 King Road	Admin	2022-04-05	2030-01-01	3	<a href="#">Edit</a>	<a href="#">Delete</a>
3	John	123 King Road	Customer	2022-04-07	2023-01-25	3	<a href="#">Edit</a>	<a href="#">Delete</a>

[Add New Customer](#)

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondaveeti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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## Edit Customer

The screenshot shows a web browser window with the URL [localhost:8087/Final\\_Project/editcustomer/3](http://localhost:8087/Final_Project/editcustomer/3). The page title is "Edit Customer". The form fields are as follows:

Name :	John
Address :	123 South East
Type :	Customer
Registration Date :	2022-04-07
Expiration Date :	2023-01-25
Login ID :	3

Below the form is a "Edit Save" button. At the bottom left is a link "Back to Main Page". A large watermark "DEMO VERSION" is overlaid across the page.

## Customer Edited

The screenshot shows a web browser window with the URL [localhost:8087/Final\\_Project/viewcustomer](http://localhost:8087/Final_Project/viewcustomer). The page title is "View Customer". The page displays a "Customer List" table with the following data:

ID	Name	Address	Type	Registration Date	Expiration Date	Login ID	Edit	Delete
1	Yamini Rathod	123 King Road	Admin	2022-03-25	2030-03-25	1	<a href="#">Edit</a>	<a href="#">Delete</a>
2	Test	123 King Road	Admin	2022-04-05	2030-01-01	3	<a href="#">Edit</a>	<a href="#">Delete</a>
3	John	123 South East	Customer	2022-04-07	2023-01-25	3	<a href="#">Edit</a>	<a href="#">Delete</a>

Below the table is a link "Add New Customer". At the bottom left is a link "Back to Main Page". A large watermark "DEMO VERSION" is overlaid across the page.

## Add User

Username : test123  
Password : \*\*\*\*\*  
Add User

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
Meghana Kondeveti C0784302  
Srikanth Ajith Kumar Yarram C0793406  
Vishal Kumar C0793379

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## User Added

User ID	Username	Password	Edit	Delete
1	project	123	Edit	Delete
2	admin	admin	Edit	Delete
3	yamini	yamini	Edit	Delete
5	testing	testing123	Edit	Delete
7	test123	test123	Edit	Delete

Add New User

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
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## Edit User

DEMO VERSION

**Edit User**

Username :   
Password :

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
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## User Edited

DEMO VERSION

**Users List**

User ID	Username	Password	Edit	Delete
1	project	123	<a href="#">Edit</a>	<a href="#">Delete</a>
2	admin	admin	<a href="#">Edit</a>	<a href="#">Delete</a>
3	yamini	yamini	<a href="#">Edit</a>	<a href="#">Delete</a>
5	testing	testing123	<a href="#">Edit</a>	<a href="#">Delete</a>
7	test12	test12	<a href="#">Edit</a>	<a href="#">Delete</a>

[Add New User](#)

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
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## Customer Transaction Logs

User Transaction Logs

transactionid	transactiondate	accountid	toaccountid	transactionamount
1	2022-04-06 00:00:00	100	101	10.0
2	2022-04-06 00:00:00	100	101	10.0
4	2022-04-06 00:00:00	100	101	10.0
5	2022-04-06 00:00:00	100	101	10.0
6	2022-04-06 00:00:00	100	101	10.0
7	2022-04-06 00:00:00	100	101	10.0
8	2022-04-06 00:00:00	100	101	10.0
9	2022-04-06 00:00:00	100	101	10.0
11	2022-04-07 00:00:00	101	100	0.01
12	2022-04-07 00:00:00	102	100	0.01
13	2022-04-07 00:00:00	102	101	25.0

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatti C0796429

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## Biller Transaction Logs

Biller Transaction Logs

Biller Log ID	Transaction Date	Biller ID	Account ID
1	2022-04-07 00:00:00	100	101
2	2022-04-07 00:00:00	102	100

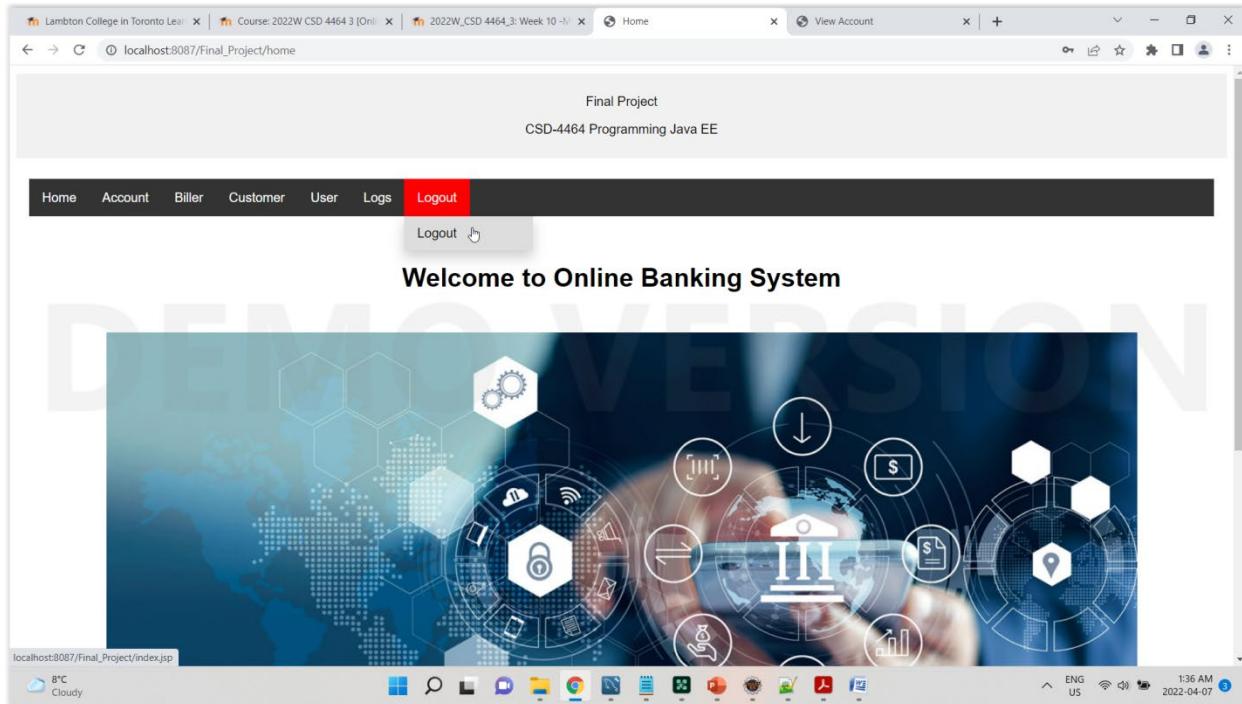
[Back to Main Page](#)

Group Members:  
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Anirudh Vallampatti C0796429  
Meghana Kondeveti C0784302  
Srikanth Ajith Kumar Yaram C0793406  
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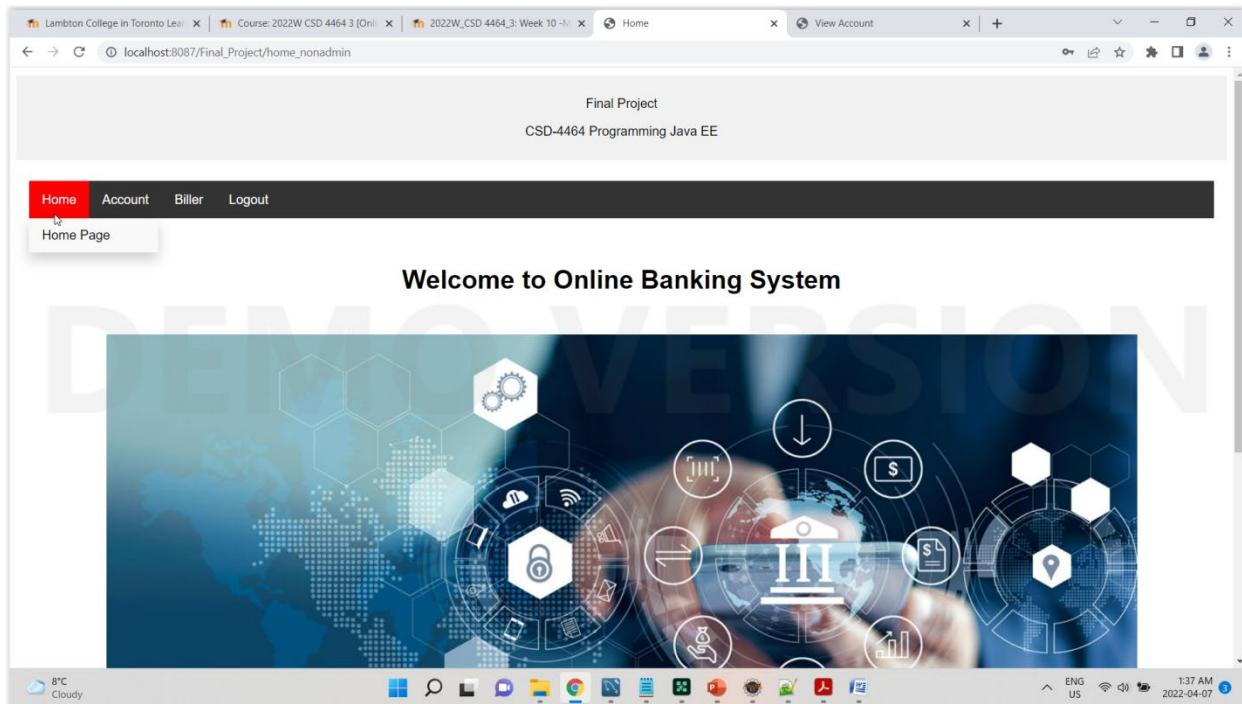
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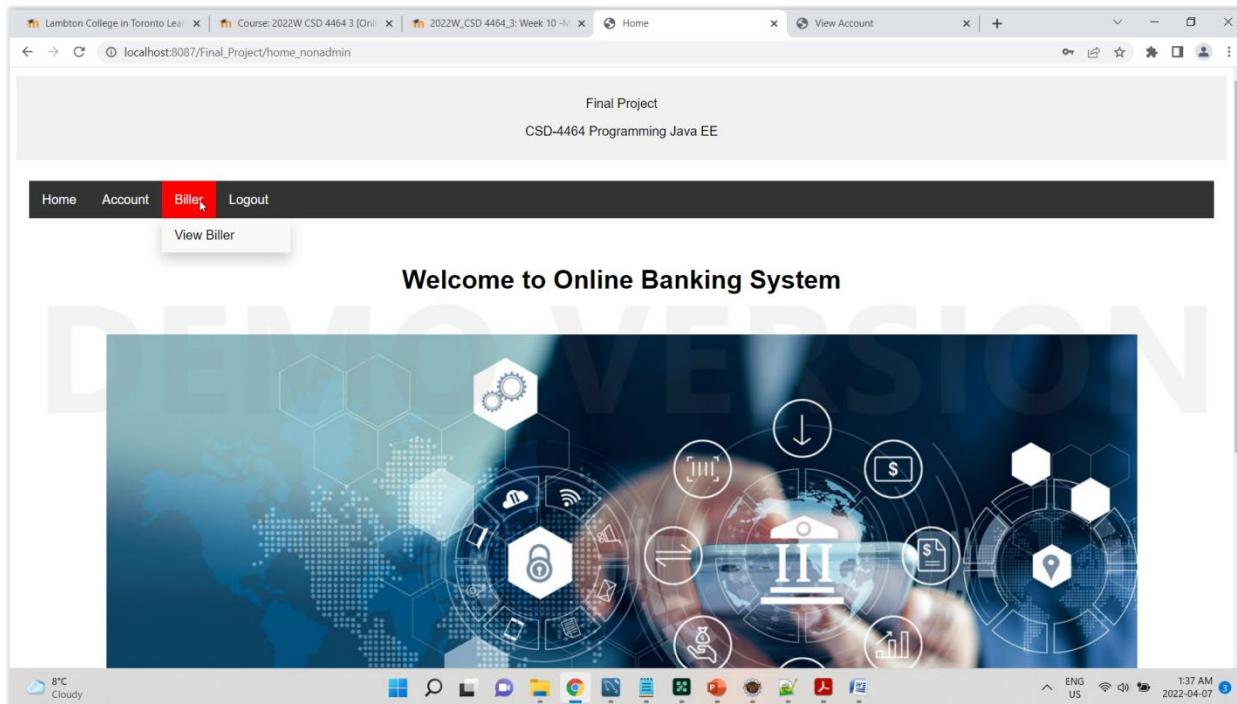
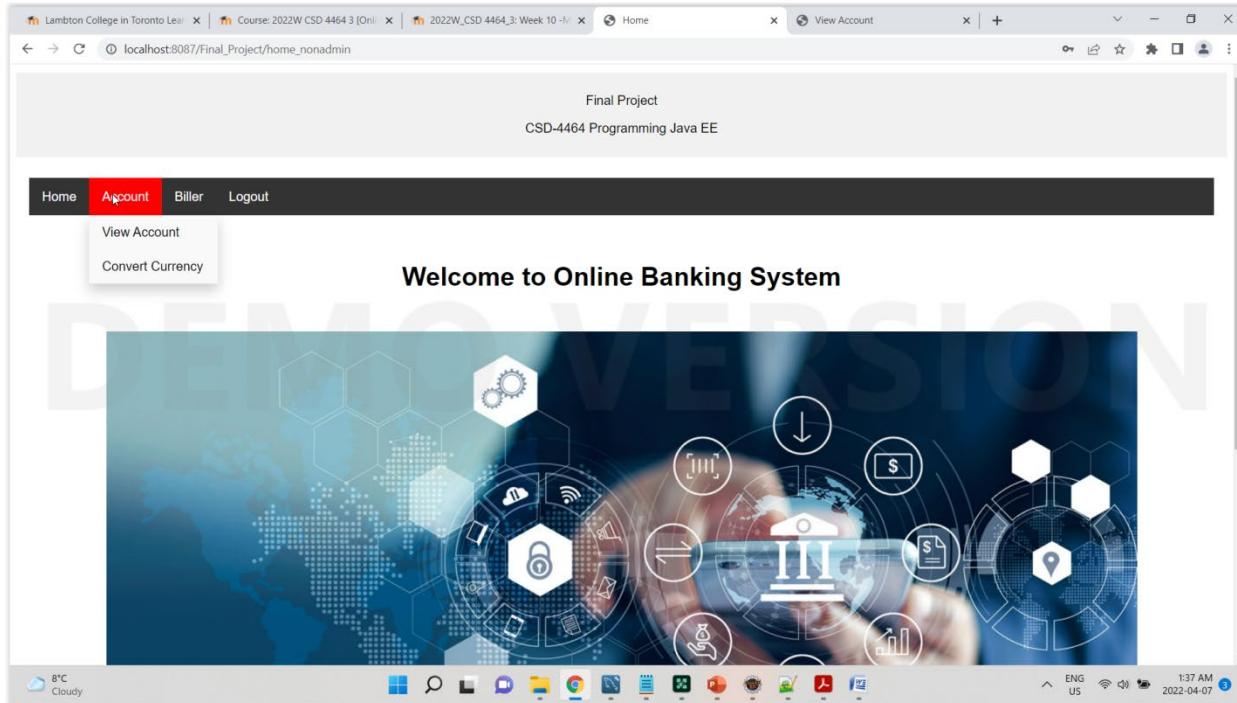
8°C Cloudy 1:30 AM 2022-04-07 ENG US

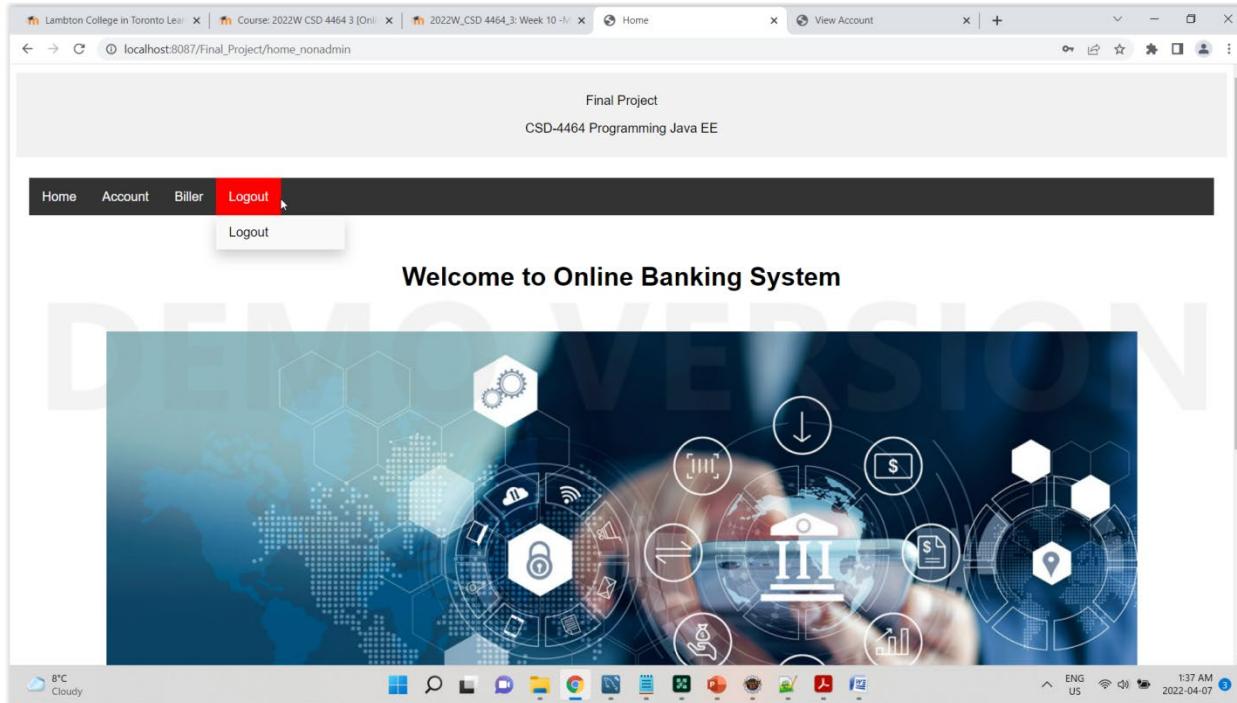
## Logout



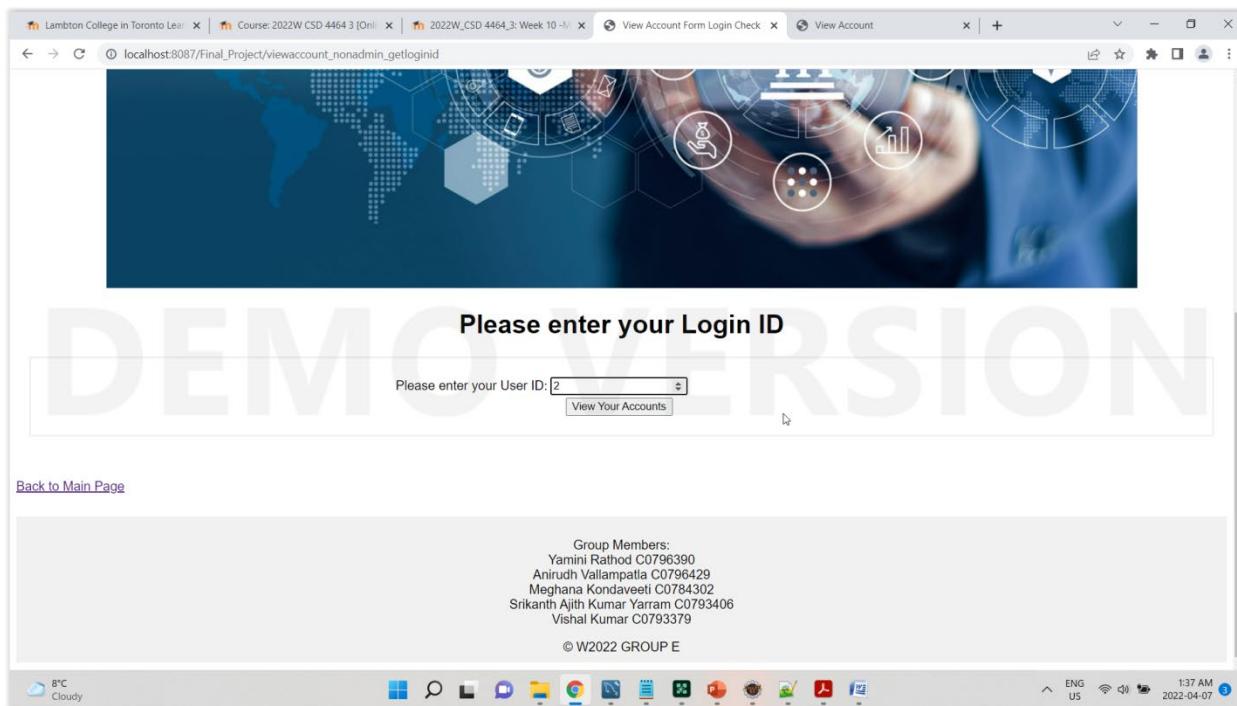
## Non Admin User Login







User can only see their accounts



## Account displayed based on user's id

Your Accounts List

Id	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
101	Testing	abc5@gmail.com	123 King Road	Checking	1380.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2515.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

[Add New Account](#)

[Back to Main Page](#)

Group Members:  
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## Currency Conversation

Convert Currency

Amount in Canadian Dollar :

Convert Currency In:

[Convert Amount](#)

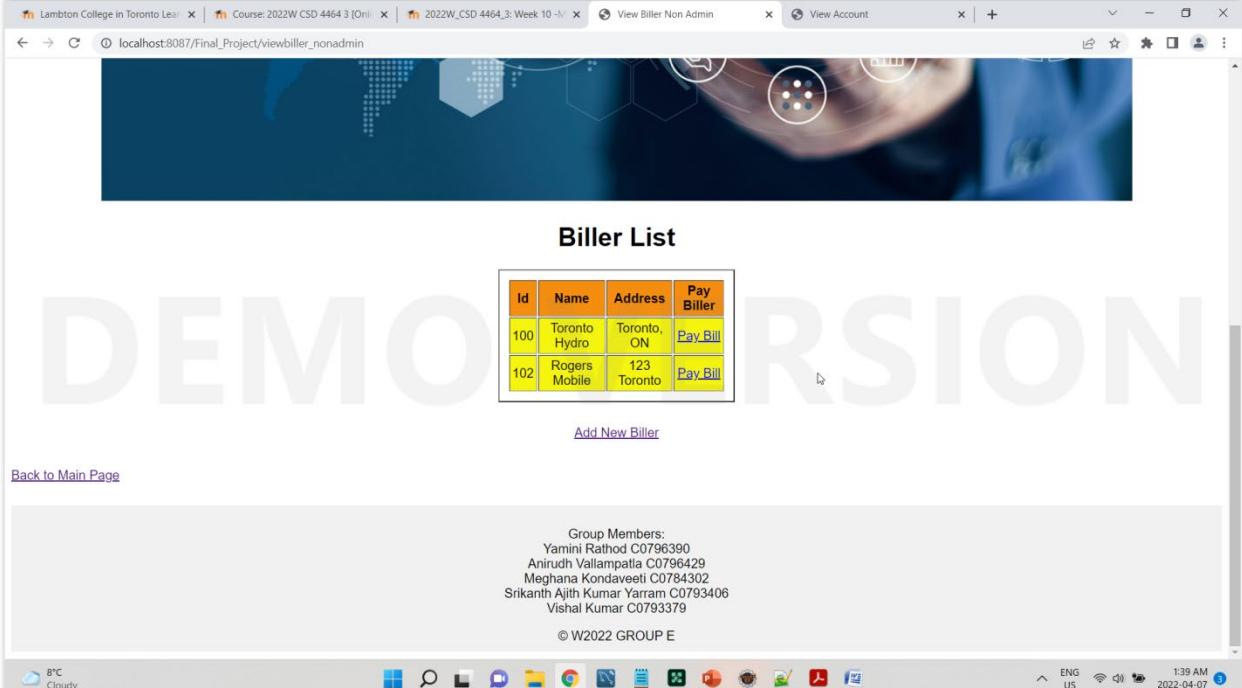
[Back to Main Page](#)

Group Members:  
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Meghana Kondeveti C0784302  
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## Pay Biller

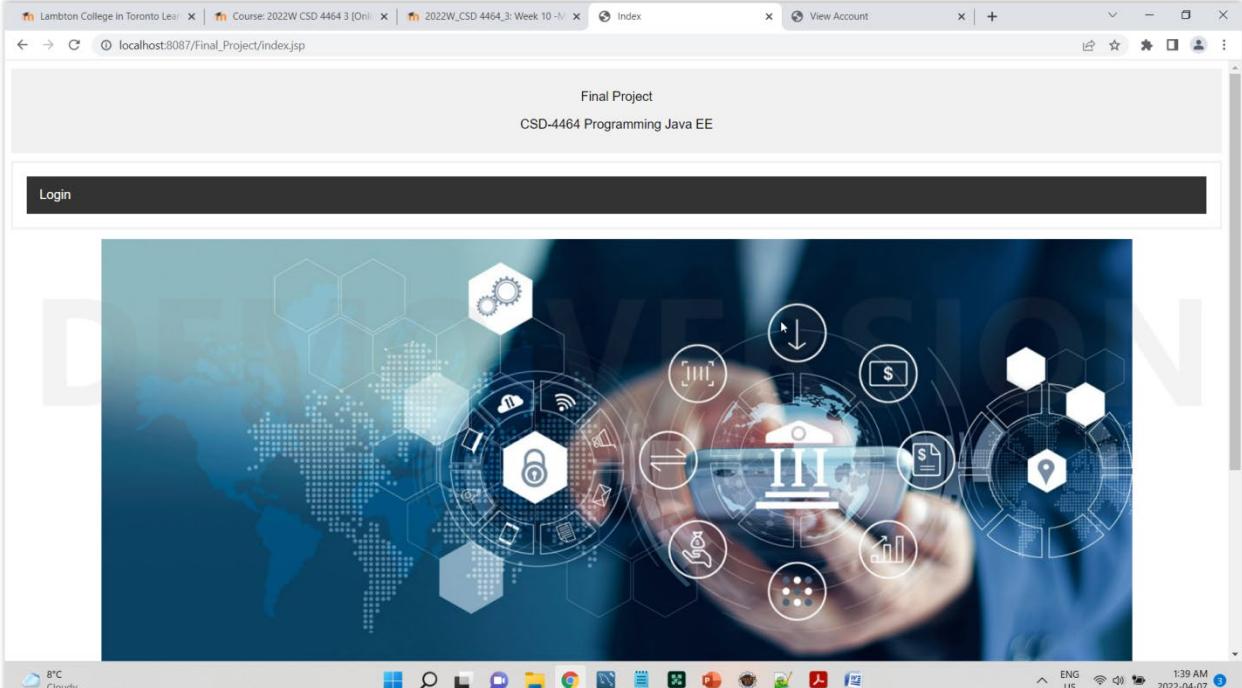


The screenshot shows a web browser window with multiple tabs open. The active tab displays a 'Biller List' page. The page has a header 'Biller List' and a table with the following data:

ID	Name	Address	Pay Biller
100	Toronto Hydro	Toronto, ON	<a href="#">Pay Bill</a>
102	Rogers Mobile	123 Toronto	<a href="#">Pay Bill</a>

Below the table is a link 'Add New Biller'. A large watermark 'DEMO VERSION' is overlaid across the page. At the bottom, there is a 'Back to Main Page' link and a footer section with group members' names and a copyright notice.

Logout



The screenshot shows a web browser window with multiple tabs open. The active tab displays a 'Final Project' page for 'CSD-4464 Programming Java EE'. The page features a 'Login' header and a large background image of a hand interacting with a futuristic interface displaying various icons like a padlock, a gear, a dollar sign, and a graph. The system tray at the bottom shows standard Windows icons and system status.

Validation has been done on every form

The screenshot shows a web browser window with the URL `localhost:8087/Final_Project/accountform`. The page title is "Account Form". The main content is titled "Add New Account". There are several input fields with validation messages:

- Name: A red error box surrounds the input field, with the message "Please fill out this field."
- Email: A red error box surrounds the input field, with the message "Please include an '@' in the email address. '123' is missing an '@'."
- Address: A red error box surrounds the input field, with the message "Please fill out this field."
- Account Type: This field is empty.
- Balance: The value is "0.0".
- Account Membership Date: The placeholder is "yyyy - mm - dd".
- Account Expiration Date: The placeholder is "yyyy - mm - dd".
- Login ID: The value is "0".

At the bottom right of the form area is a "Register Account" button. Below the form, there is a link "Back to Main Page" and a footer section displaying group members and a copyright notice.

The screenshot shows a web browser window with the URL `localhost:8087/Final_Project/accountform`. The page title is "Account Form". The main content is titled "Add New Account". There are several input fields with validation messages:

- Name: The value is "Yamini".
- Email: The value is "123". A red error box surrounds the input field, with the message "Please include an '@' in the email address. '123' is missing an '@'."
- Address: A red error box surrounds the input field, with the message "Please fill out this field."
- Account Type: This field is empty.
- Balance: The value is "0.0".
- Account Membership Date: The placeholder is "yyyy - mm - dd".
- Account Expiration Date: The placeholder is "yyyy - mm - dd".
- Login ID: The value is "0".

At the bottom right of the form area is a "Register Account" button. Below the form, there is a link "Back to Main Page" and a footer section displaying group members and a copyright notice.

## Numeric field check

[Back to Main Page](#)

Group Members:  
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Constraint of Minimum Balance \$500

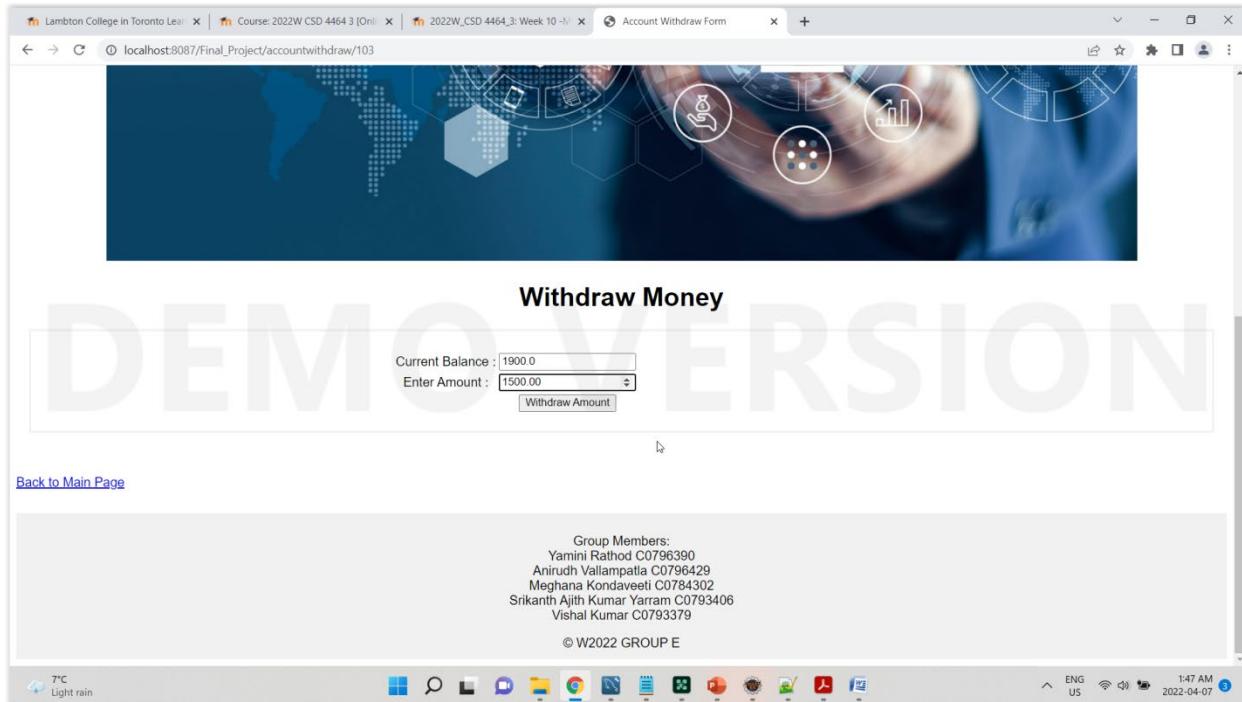
Try to Withdraw \$1500.00 from account 103

[Back to Main Page](#)

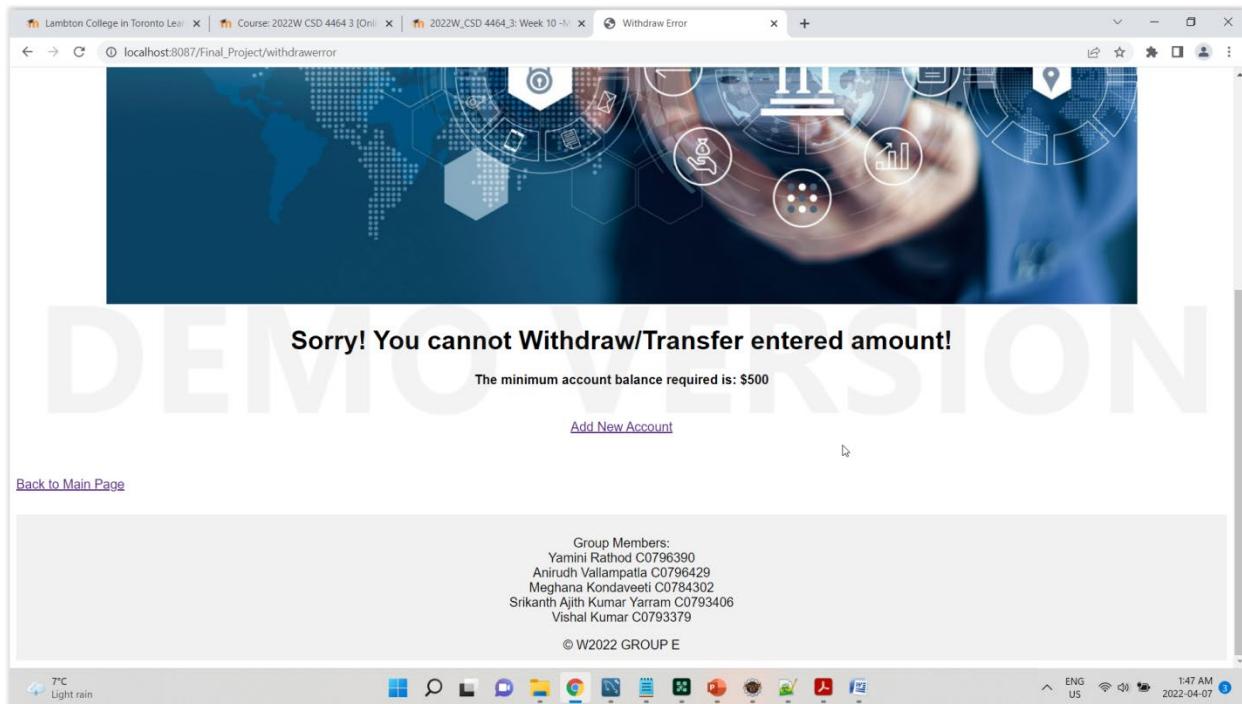
Group Members:  
 Yamini Rathod C0796390  
 Anirudh Vallampatla C0796429  
 Meghana Konadeeti C0784302  
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Minimum Balance required is \$500



Withdraw error occurred



Constraint of User can not transfer more than \$1000 per day

First Transfer \$900

Transfer Money

Current Balance :

Enter Transfer Account No :

Enter Transfer Amount :

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
Anirudh Vallampatla C0796429  
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Amount Transferred

Account List

ID	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	3250.0	2022-04-06	2022-05-04	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
101	Testing	abc5@gmail.com	123 King Road	Checking	1380.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2515.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
103	Test	abc4@gmail.com	123 King Road	Savings	1000.0	2022-04-07	2022-04-21	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

[Add New Account](#)

[Back to Main Page](#)

Group Members:  
Yamini Rathod C0796390  
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Srikanth Ajith Kumar Yarram C0793406  
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ENG US 1:49 AM 2022-04-07

## Check Logs

A screenshot of a web browser window displaying a table of logs. The table has columns for ID, Date, Account No., Transaction Type, and Amount. The data shows multiple entries for account 100, with various transaction types and amounts.

ID	Date	Account No.	Transaction Type	Amount
7	2022-04-06 00:00:00	100	101	10.0
8	2022-04-06 00:00:00	100	101	10.0
9	2022-04-06 00:00:00	100	101	10.0
11	2022-04-07 00:00:00	101	100	0.01
12	2022-04-07 00:00:00	102	100	0.01
13	2022-04-07 00:00:00	102	101	25.0
14	2022-04-07 00:00:00	103	101	0.0
15	2022-04-07 00:00:00	103	101	50.0
16	2022-04-07 00:00:00	103	101	0.0
17	2022-04-07 00:00:00	103	101	50.0
18	2022-04-07 00:00:00	103	100	0.0
19	2022-04-07 00:00:00	103	100	900.0

[Back to Main Page](#)

Group Members:  
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Try to transfer \$200.00 more from same account

A screenshot of a web browser window showing a transfer money form. The form includes fields for Current Balance, Enter Transfer Account No., Enter Transfer Amount, and a Transfer Amount button. The background features a blue world map and various icons.

**Transfer Money**

Current Balance :	<input type="text" value="1000.0"/>
Enter Transfer Account No :	<input type="text" value="100"/>
Enter Transfer Amount :	<input type="text" value="200.00"/>
<input type="button" value="Transfer Amount"/>	

[Back to Main Page](#)

Group Members:  
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User will not be able to transfer amount as it would exceed limit of \$1000

The screenshot shows a web browser window with the URL [localhost:8087/Final\\_Project/withdrawerror](http://localhost:8087/Final_Project/withdrawerror). The page features a blue background with a world map and various icons. A large watermark "DEMO VERSION" is overlaid across the center. At the top, there is a message: "Sorry! You cannot Withdraw/Transfer entered amount!". Below it, two lines of text provide technical details: "The minimum account balance required is: \$500" and "Transaction Limit is: \$1000 per day". A link "Add New Account" is visible. At the bottom left is a link "Back to Main Page". The system tray at the bottom shows the date and time as 2022-04-07 1:55 AM.

That transaction won't happen, it can be only done up to limit \$1000 per day

The screenshot shows a web browser window with the URL [localhost:8087/Final\\_Project/viewaccount](http://localhost:8087/Final_Project/viewaccount). The page has a blue header bar and a large watermark "DEMO VERSION" across the center. Below the header is a section titled "Account List" containing a table with four rows of account data. The table columns are: Id, Name, Email ID, Address, Account Type, Balance, Account Membership Date, Account Expiration Date, Login ID, Edit, Delete, Deposit, Withdraw, Transfer, and Interact. The accounts listed are:

Id	Name	Email ID	Address	Account Type	Balance	Account Membership Date	Account Expiration Date	Login ID	Edit	Delete	Deposit	Withdraw	Transfer	Interact
100	Yamini Rathod	abc1@gmail.com	123 King Road	Savings	3250.0	2022-04-06	2022-05-04	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
101	Testing	abc5@gmail.com	123 King Road	Checking	1380.0	2022-04-06	2022-05-05	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
102	Java Project	abc4@gmail.com	Queenston Road	Savings	2515.0	2022-04-01	2022-10-27	2	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>
103	Test	abc4@gmail.com	123 King Road	Savings	1000.0	2022-04-07	2022-04-21	1	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Deposit</a>	<a href="#">Withdraw</a>	<a href="#">Transfer</a>	<a href="#">Interact</a>

Below the table is a link "Add New Account". At the bottom left is a link "Back to Main Page". The system tray at the bottom shows the date and time as 2022-04-07 1:50 AM.

## **References**

- Stackoverflow
- Class practice and class PPT

**(Fully Self Developed)**

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