**ICIN BANK**

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**JAVA SOURCE CODE**

**Model Classes :-**

1. **Admin.java**

package com.icin.BankBackend.model;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

@Entity

public class Admin {

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

private int id;

private String name;

private String phoneNo;

private String email;

private String password;

public Admin() {

super();

// TODO Auto-generated constructor stub

}

public Admin(String email, String password) {

super();

this.email = email;

this.password = password;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getPhoneNo() {

return phoneNo;

}

public void setPhoneNo(String phoneNo) {

this.phoneNo = phoneNo;

}

}

1. **GrantAcess.java**

package com.icin.BankBackend.model;

import java.util.Date;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import org.hibernate.annotations.CreationTimestamp;

@Entity

public class GrantAccess {

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

private Integer id;

private String accountNumber;

private String action;

@CreationTimestamp

private Date date;

private Long amount;

private Long currentBalance;

private String access="pending";

public GrantAccess() {

super();

}

public GrantAccess(String accountNumber, String action, Long amount, Long currentBalance) {

super();

this.accountNumber = accountNumber;

this.action = action;

this.amount = amount;

this.currentBalance = currentBalance;

}

public GrantAccess(String accountNumber, String action) {

super();

this.accountNumber = accountNumber;

this.action = action;

}

public Integer getId() {

return id;

}

public void setId(Integer id) {

this.id = id;

}

public String getAccountNumber() {

return accountNumber;

}

public void setAccountNumber(String accountNumber) {

this.accountNumber = accountNumber;

}

public String getAction() {

return action;

}

public void setAction(String action) {

this.action = action;

}

public Date getDate() {

return date;

}

public void setDate(Date date) {

this.date = date;

}

public Long getAmount() {

return amount;

}

public void setAmount(Long amount) {

this.amount = amount;

}

public Long getCurrentBalance() {

return currentBalance;

}

public void setCurrentBalance(Long currentBalance) {

this.currentBalance = currentBalance;

}

public String getAccess() {

return access;

}

public void setAccess(String access) {

this.access = access;

}

}

1. **RequestChequeBook.java**

package com.icin.BankBackend.model;

import java.util.Date;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import org.hibernate.annotations.CreationTimestamp;

@Entity

public class RequestChequeBook {

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

private Integer id;

private String accountNumber;

private String leafSize;

private String status;

@CreationTimestamp

private Date date;

public RequestChequeBook() {

super();

// TODO Auto-generated constructor stub

}

public Integer getId() {

return id;

}

public void setId(Integer id) {

this.id = id;

}

public String getAccountNumber() {

return accountNumber;

}

public void setAccountNumber(String accountNumber) {

this.accountNumber = accountNumber;

}

public String getLeafSize() {

return leafSize;

}

public void setLeafSize(String leafSize) {

this.leafSize = leafSize;

}

public String getStatus() {

return status;

}

public void setStatus(String status) {

this.status = status;

}

public Date getDate() {

return date;

}

public void setDate(Date date) {

this.date = date;

}

}

1. **User.java**

package com.icin.BankBackend.model;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

@Entity

public class User {

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

private Integer id;

private String name;

private String email;

private String dob;

private String phoneNumber;

private String accountNumber;

private String password;

private Long balance=10000l;

public User() {

super();

}

public User(String name, String email, String dob, String phoneNumber, String accountNumber, String password) {

super();

this.name = name;

this.email = email;

this.dob = dob;

this.phoneNumber = phoneNumber;

this.accountNumber = accountNumber;

this.password = password;

}

public Integer getId() {

return id;

}

public void setId(Integer id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getDob() {

return dob;

}

public void setDob(String dob) {

this.dob = dob;

}

public String getPhoneNumber() {

return phoneNumber;

}

public void setPhoneNumber(String phoneNumber) {

this.phoneNumber = phoneNumber;

}

public String getAccountNumber() {

return accountNumber;

}

public void setAccountNumber(String accountNumber) {

this.accountNumber = accountNumber;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

public Long getBalance() {

return balance;

}

public void setBalance(Long balance) {

this.balance = balance;

}

}

1. **UserTransactions.java**

package com.icin.BankBackend.model;

import java.util.Date;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import org.hibernate.annotations.CreationTimestamp;

@Entity

public class UserTransactions {

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

private Integer id;

private String accountNumber;

private String action;

private Long amount;

@CreationTimestamp

private Date date;

private Long balance;

public UserTransactions() {

super();

}

public UserTransactions(String accountNumber, String action, Long amount, Long balance) {

super();

this.accountNumber = accountNumber;

this.action = action;

this.amount = amount;

this.balance = balance;

}

public Integer getId() {

return id;

}

public void setId(Integer id) {

this.id = id;

}

public String getAccountNumber() {

return accountNumber;

}

public void setAccountNumber(String accountNumber) {

this.accountNumber = accountNumber;

}

public String getAction() {

return action;

}

public void setAction(String action) {

this.action = action;

}

public Long getAmount() {

return amount;

}

public void setAmount(Long amount) {

this.amount = amount;

}

public Date getDate() {

return date;

}

public void setDate(Date date) {

this.date = date;

}

public Long getBalance() {

return balance;

}

public void setBalance(Long balance) {

this.balance = balance;

}

@Override

public String toString() {

return String.format("UserTransactions [id=%s, accountNumber=%s, action=%s, amount=%s, date=%s, balance=%s]",

id, accountNumber, action, amount, date, balance);

}

}

**Repository Interface :-**

1. **AdminRepository.java**

package com.icin.BankBackend.repo;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.stereotype.Repository;

import com.icin.BankBackend.model.Admin;

@Repository

public interface AdminRepository extends JpaRepository<Admin, Integer> {

Admin findByEmailAndPassword(String email, String password);

Admin findByEmail(String email);

}

1. **GrantAccessRepository.java**

package com.icin.BankBackend.repo;

import java.util.List;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.stereotype.Repository;

import com.icin.BankBackend.model.GrantAccess;

@Repository

public interface GrantAccessRepository extends JpaRepository<GrantAccess, Integer>{

List<GrantAccess> findGrantAccessByAction(String action);

}

1. **RequestChequeBookRepo.java**

**package** com.icin.BankBackend.repo;

**import** org.springframework.data.jpa.repository.JpaRepository;

**import** org.springframework.stereotype.Repository;

**import** com.icin.BankBackend.model.RequestChequeBook;

@Repository

**public** **interface** RequestChequeBookRepo **extends** JpaRepository<RequestChequeBook, Integer> {

**public** RequestChequeBook findByAccountNumber(String accountNumber);

}

1. **UserRepository.java**

package com.icin.BankBackend.repo;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.data.jpa.repository.Modifying;

import org.springframework.data.jpa.repository.Query;

import org.springframework.stereotype.Repository;

import com.icin.BankBackend.model.User;

@Repository

public interface UserRepository extends JpaRepository<User, Integer>{

User findUserByAccountNumberAndPassword(String accountNumber,String password);

@Modifying

@Query("update User u set u.balance =u.balance + ?2 where u.accountNumber = ?1")

int setUserInfoByAccountNumber(String accountNumber, Long balance);

User findUserByAccountNumber(String accountNumber);

}

1. **UserTransactionsRepository.java**

package com.icin.BankBackend.repo;

import java.util.List;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.stereotype.Repository;

import com.icin.BankBackend.model.UserTransactions;

@Repository

public interface UserTransactionsRepository extends JpaRepository<UserTransactions, Integer>{

List<UserTransactions> getUserTransactionsByAccountNumber(String accountNumber);

}

**Service Interfaces :-**

1. **AdminService.java**

**package** com.icin.BankBackend.service;

**import** com.icin.BankBackend.model.Admin;

**public** **interface** AdminService {

**public** Admin saveAdmin(Admin admin);

**public** Admin adminLogin(String email, String password);

**public** Admin getAdmin(String email);

**public** **void** updatePassword(Admin admin);

}

1. **GrantAccessService.java**

package com.icin.BankBackend.service;

import java.util.List;

import com.icin.BankBackend.model.GrantAccess;

public interface GrantAccessService {

public List<GrantAccess> getGrantAccess();

public GrantAccess saveGrantAccess(GrantAccess theGrantAccess);

public void deleteGrantAccess(Integer theId);

}

1. **RequestChequeBookService.java**

package com.icin.BankBackend.service;

import java.util.List;

import com.icin.BankBackend.model.RequestChequeBook;

public interface RequestChequeBookService {

public RequestChequeBook saveChequeBook(RequestChequeBook rcb);

public List<RequestChequeBook> getAllChequeBook();

public RequestChequeBook getById(Integer id);

public void updateChequeBook(RequestChequeBook rcb);

public void deleteChequeBookRequest(Integer id);

}

1. **UserService.java**

package com.icin.BankBackend.service;

import java.util.List;

import com.icin.BankBackend.model.User;

public interface UserService {

public User saveUser(User user);

public User getUser(String accountNumber, String password);

public User getUser(Integer id);

public boolean updateUserBalance(String accountNumber,Long balance);

public User getUserByAccountNumber(String accountNumber);

public void updateUserBalance(User user);

public List<User> getAllUser();

public void deleteUser(Integer id);

}

1. **UserTransactionService.java**

package com.icin.BankBackend.service;

import java.util.List;

import com.icin.BankBackend.model.UserTransactions;

public interface UserTransactionsService {

public List<UserTransactions> getUserTransactions();

public UserTransactions saveUserTransactions(UserTransactions theUserTransactions);

public UserTransactions getUserTransactions(Integer theId);

public void deleteUserTransactions(Integer theId);

public List<UserTransactions> getUserTransactions(String accountNumber);

}

**Service Implementation Classes :-**

1. **AdminServiceImpl.java**

package com.icin.BankBackend.service.impl;

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

import org.springframework.stereotype.Service;

import com.icin.BankBackend.model.Admin;

import com.icin.BankBackend.repo.AdminRepository;

import com.icin.BankBackend.service.AdminService;

@Service

public class AdminServiceImpl implements AdminService{

@Autowired

private AdminRepository repo;

@Override

public Admin saveAdmin(Admin admin) {

// TODO Auto-generated method stub

return repo.save(admin);

}

@Override

public Admin adminLogin(String email, String password) {

// TODO Auto-generated method stub

return repo.findByEmailAndPassword(email, password);

}

@Override

public Admin getAdmin(String email) {

// TODO Auto-generated method stub

return repo.findByEmail(email);

}

@Override

public void updatePassword(Admin admin) {

// TODO Auto-generated method stub

if(repo.findByEmail(admin.getEmail())!=null) {

repo.save(admin);

}

}

}

1. **GrantServiceImpl.java**

package com.icin.BankBackend.service.impl;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.icin.BankBackend.model.GrantAccess;

import com.icin.BankBackend.repo.GrantAccessRepository;

import com.icin.BankBackend.service.GrantAccessService;

@Service

public class GrantAccessServiceImpl implements GrantAccessService{

@Autowired

private GrantAccessRepository grantAccessRepository;

@Override

public List<GrantAccess> getGrantAccess() {

return grantAccessRepository.findAll();

}

@Override

public GrantAccess saveGrantAccess(GrantAccess theGrantAccess) {

return grantAccessRepository.save(theGrantAccess);

}

@Override

public void deleteGrantAccess(Integer theId) {

grantAccessRepository.deleteById(theId);

}

}

1. **RequestChequeBookServiceImpl.java**

package com.icin.BankBackend.service.impl;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.icin.BankBackend.model.RequestChequeBook;

import com.icin.BankBackend.repo.RequestChequeBookRepo;

import com.icin.BankBackend.service.RequestChequeBookService;

@Service

public class RequestChequeBookServiceImpl implements RequestChequeBookService{

@Autowired

private RequestChequeBookRepo repo;

@Override

public RequestChequeBook saveChequeBook(RequestChequeBook rcb) {

// TODO Auto-generated method stub

return repo.save(rcb);

}

@Override

public List<RequestChequeBook> getAllChequeBook() {

// TODO Auto-generated method stub

return repo.findAll();

}

@Override

public void updateChequeBook(RequestChequeBook rcb) {

// TODO Auto-generated method stub

if(repo.findById(rcb.getId()).get() !=null) {

repo.save(rcb);

}

}

@Override

public void deleteChequeBookRequest(Integer id) {

// TODO Auto-generated method stub

repo.deleteById(id);

}

@Override

public RequestChequeBook getById(Integer id) {

// TODO Auto-generated method stub

return repo.findById(id).get();

}

}

1. **UserServiceImpl.java**

package com.icin.BankBackend.service.impl;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.icin.BankBackend.model.User;

import com.icin.BankBackend.repo.UserRepository;

import com.icin.BankBackend.service.UserService;

@Service

public class UserServiceImpl implements UserService {

@Autowired

private UserRepository repo;

@Override

public User saveUser(User user) {

// TODO Auto-generated method stub

return repo.save(user);

}

@Override

public User getUser(String accountNumber, String password) {

// TODO Auto-generated method stub

return repo.findUserByAccountNumberAndPassword(accountNumber, password);

}

@Override

public User getUser(Integer id) {

return repo.findById(id).get();

}

@Override

public boolean updateUserBalance(String accountNumber,Long balance) {

int u=repo.setUserInfoByAccountNumber(accountNumber, balance);

return u>0;

}

@Override

public User getUserByAccountNumber(String accountNumber) {

// TODO Auto-generated method stub

return repo.findUserByAccountNumber(accountNumber);

}

@Override

public void updateUserBalance(User user) {

if(repo.findUserByAccountNumber(user.getAccountNumber()) != null) {

repo.save(user);

}

}

@Override

public List<User> getAllUser() {

// TODO Auto-generated method stub

return repo.findAll();

}

@Override

public void deleteUser(Integer id) {

// TODO Auto-generated method stub

repo.deleteById(id);

}

}

1. **UserTransactionsServiceImpl.java**

package com.icin.BankBackend.service.impl;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.icin.BankBackend.model.User;

import com.icin.BankBackend.repo.UserRepository;

import com.icin.BankBackend.service.UserService;

@Service

public class UserServiceImpl implements UserService {

@Autowired

private UserRepository repo;

@Override

public User saveUser(User user) {

// TODO Auto-generated method stub

return repo.save(user);

}

@Override

public User getUser(String accountNumber, String password) {

// TODO Auto-generated method stub

return repo.findUserByAccountNumberAndPassword(accountNumber, password);

}

@Override

public User getUser(Integer id) {

return repo.findById(id).get();

}

@Override

public boolean updateUserBalance(String accountNumber,Long balance) {

int u=repo.setUserInfoByAccountNumber(accountNumber, balance);

return u>0;

}

@Override

public User getUserByAccountNumber(String accountNumber) {

// TODO Auto-generated method stub

return repo.findUserByAccountNumber(accountNumber);

}

@Override

public void updateUserBalance(User user) {

if(repo.findUserByAccountNumber(user.getAccountNumber()) != null) {

repo.save(user);

}

}

@Override

public List<User> getAllUser() {

// TODO Auto-generated method stub

return repo.findAll();

}

@Override

public void deleteUser(Integer id) {

// TODO Auto-generated method stub

repo.deleteById(id);

}

}

**Controller Classes :-**

1. **AdminController.java**

package com.icin.BankBackend.controller;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpSession;

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.annotation.DeleteMapping;

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

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

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

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

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

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

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

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

import org.springframework.web.servlet.ModelAndView;

import com.icin.BankBackend.model.Admin;

import com.icin.BankBackend.model.RequestChequeBook;

import com.icin.BankBackend.service.AdminService;

import com.icin.BankBackend.service.GrantAccessService;

import com.icin.BankBackend.service.RequestChequeBookService;

import com.icin.BankBackend.service.UserService;

import com.icin.BankBackend.service.UserTransactionsService;

@Controller

public class AdminController {

@Autowired

private GrantAccessService grantAccessService;

@Autowired

private AdminService adminService;

@Autowired

private UserService service;

@Autowired

private UserTransactionsService service2;

@Autowired

private RequestChequeBookService rBookService;

@PostMapping("/adminLogin")

public String adminLogin() {

return "AdminHome";

}

@PostMapping("/save-admin")

public String saveAdmin(@RequestParam("name")String name,@RequestParam("phoneNo")String phoneNo,

@RequestParam("email")String email, @RequestParam("password")String password,ModelMap map) {

Admin admin = new Admin();

admin.setName(name);

admin.setPhoneNo(phoneNo);

admin.setEmail(email);

admin.setPassword(password);

adminService.saveAdmin(admin);

return "redirect:/";

}

@PostMapping("/Login")

public String AdminLogin(Model m, HttpServletRequest request,

@RequestParam("email")String email, @RequestParam("password")String password) {

Admin admin = adminService.adminLogin(email, password);

if(admin != null) {

HttpSession session = request.getSession();

session.setAttribute("userEmailId", email);

session.setAttribute("name", admin.getName());

return "redirect:/AdminDashboard";

} else {

m.addAttribute("errmsg","Invalid Credentials");

return "AdminLogin";

}

}

@GetMapping("/UserList")

public String userList(Model map) {

map.addAttribute("users",service.getAllUser());

return "UserList";

}

@GetMapping("/delete/{id}")

public String deleteUser(@PathVariable Integer id, ModelMap map) {

service.deleteUser(id);

return "UserList";

}

@GetMapping("/GrantAccess")

public String grantAccess(ModelMap map) {

map.addAttribute("grantAccess", grantAccessService.getGrantAccess());

return "GrantAccess";

}

@RequestMapping(value="request",method=RequestMethod.GET)

public String acceptRequest(@RequestParam("id")Integer id, ModelMap map) {

grantAccessService.deleteGrantAccess(id);

map.addAttribute("grantAccess", grantAccessService.getGrantAccess());

return "GrantAccess";

}

@GetMapping("/chequeList")

public String chequeBookList(Model map) {

map.addAttribute("rcb",rBookService.getAllChequeBook());

return "ChequeRequests";

}

@GetMapping("/cheque/{id}")

public ModelAndView getChequeRequest(@PathVariable Integer id,Model m) {

ModelAndView mv = new ModelAndView("UpdateChequeRequest");

RequestChequeBook rcb = rBookService.getById(id);

m.addAttribute("cheque",rcb);

return mv;

}

@GetMapping("/deleteCheque/{id}")

public String deleteChequeRequest(@PathVariable Integer id) {

rBookService.deleteChequeBookRequest(id);

return "AdminDashboard";

}

@PostMapping("/adminUpdatePassword")

public String UpdatePassowrd(@RequestParam("email")String email,

@RequestParam("password")String password,HttpServletRequest request) {

Admin admin = adminService.getAdmin(email);

if(admin != null) {

admin.setPassword(password);

adminService.updatePassword(admin);

return "AdminLogin";

} else {

request.setAttribute("errmsg", "Failed to update password");

return "AdminUpdatePassword";

}

}

@GetMapping("/allTransactions")

public String AllTransactions(ModelMap map) {

map.addAttribute("transactions",service2.getUserTransactions());

return "AllTransactionsList";

}

@GetMapping("/deleteTransaction/{id}")

public String deleteTransactions(@PathVariable Integer id) {

service2.deleteUserTransactions(id);

return "AllTransactionsList";

}

}

1. **HomeController.java**

package com.icin.BankBackend.controller;

import org.springframework.stereotype.Controller;

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

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

@Controller

public class HomeController {

@GetMapping("/")

public String home() {

return "home";

}

@GetMapping("/UserLogin")

public String userLogin() {

return "UserLogin";

}

@GetMapping("/UserDashboard")

public String userDashboard() {

return "UserDashboard";

}

@GetMapping("/UserRegistration")

public String userRegistration() {

return "registerUser";

}

@RequestMapping("/DepositMoney")

public String depositMoney() {

return "DepositMoney";

}

@RequestMapping("/WithdrawMoney")

public String withdrawMoney() {

return "WithdrawMoney";

}

@RequestMapping("/TransferFunds")

public String transferMoney() {

return "TransferFunds";

}

@GetMapping("/AdminRegistration")

public String adminRegistration() {

return "registerAdmin";

}

@GetMapping("/AdminLogin")

public String adminLogin() {

return "AdminLogin";

}

@GetMapping("/AdminDashboard")

public String adminDashboard() {

return "AdminDashboard";

}

@GetMapping("/AdminUpdatePassword")

public String adminChangePassword() {

return "UpdateAdminPassword";

}

@GetMapping("/UserUpdatePassword")

public String userChangePassword() {

return "UpdateUserPassword";

}

}

1. **UserController.java**

package com.icin.BankBackend.controller;

import javax.servlet.http.HttpServletRequest;

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.annotation.GetMapping;

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

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

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

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

import com.icin.BankBackend.model.GrantAccess;

import com.icin.BankBackend.model.User;

import com.icin.BankBackend.model.RequestChequeBook;

import com.icin.BankBackend.model.UserTransactions;

import com.icin.BankBackend.service.GrantAccessService;

import com.icin.BankBackend.service.RequestChequeBookService;

import com.icin.BankBackend.service.UserService;

import com.icin.BankBackend.service.UserTransactionsService;

@Controller

public class UserController {

@Autowired

private UserService service;

@Autowired

private UserTransactionsService userTransactionsService;

@Autowired

private GrantAccessService grantAccessService;

@Autowired

private RequestChequeBookService rcbService;

@PostMapping("/add-user")

public String userRegister(@RequestParam("name") String name, @RequestParam("email") String email,

@RequestParam("dob") String dob, @RequestParam("phone-number") String phoneNumber,

@RequestParam("account-number") String accountNumber, @RequestParam("password") String password,

ModelMap map) {

User user = new User();

user.setName(name);

user.setEmail(email);

user.setDob(dob);

user.setPassword(password);

user.setPhoneNumber(phoneNumber);

user.setAccountNumber(accountNumber);

service.saveUser(user);

map.addAttribute("message", "User Registered");

return "home";

}

@PostMapping("/UserPage")

public String userPage(@RequestParam("account-number") String accountNumber,

@RequestParam("password") String password, ModelMap map) {

User user = service.getUser(accountNumber, password);

if (user != null) {

map.addAttribute("user", user);

map.addAttribute("userName", user.getName());

return "UserDashboard";

} else

map.addAttribute("message", "Invalid Details");

return "UserLogin";

}

@GetMapping("/UserProfile/{accountNumber}")

public String userProfile(@PathVariable String accountNumber, Model m) {

m.addAttribute("profile", service.getUserByAccountNumber(accountNumber));

return "Profile";

}

@GetMapping("/UserBalance/{accountNumber}")

public String userBalance(@PathVariable String accountNumber, ModelMap map) {

User user = service.getUserByAccountNumber(accountNumber);

map.addAttribute("balance", user.getBalance());

return "UserBalance";

}

@PostMapping("/Deposit")

public String DepositFunds(@RequestParam("account-number")String accountNumber, @RequestParam("amount") Long amount, ModelMap map) {

User user = service.getUserByAccountNumber(accountNumber);

if (service.getUserByAccountNumber(accountNumber) != null) {

Long updatedAmount = user.getBalance() + amount;

user.setBalance(updatedAmount);

service.updateUserBalance(user);

map.addAttribute("message", "Amount Deposited Successfully");

userTransactionsService.saveUserTransactions(

new UserTransactions(user.getAccountNumber(), "deposit", amount, user.getBalance()));

grantAccessService.saveGrantAccess(

new GrantAccess(user.getAccountNumber(), "deposit", amount, user.getBalance() - amount));

} else {

map.addAttribute("message", "Unable to Deposit");

}

return "DepositMoney";

}

@PostMapping("/Withdraw")

public String WithdrawFunds(@RequestParam("account-number")String accountNumber, @RequestParam("amount") Long amount, ModelMap map) {

User user = service.getUserByAccountNumber(accountNumber);

if (service.getUserByAccountNumber(accountNumber) != null) {

Long updatedAmount = user.getBalance() - amount;

user.setBalance(updatedAmount);

service.updateUserBalance(user);

map.addAttribute("message", "Amount Deposited Successfully");

userTransactionsService.saveUserTransactions(

new UserTransactions(user.getAccountNumber(), "deposit", amount, user.getBalance()));

grantAccessService.saveGrantAccess(

new GrantAccess(user.getAccountNumber(), "deposit", amount, user.getBalance() - amount));

} else {

map.addAttribute("message", "Unable to Deposit");

}

return "WithdrawMoney";

}

@PostMapping("/transferFunds")

public String TransferFunds(@RequestParam("account-number1")String accountNumber1,

@RequestParam("account-number2")String accountNumber2,

@RequestParam("amount") Long amount, ModelMap map) {

User user1 = service.getUserByAccountNumber(accountNumber1);

User user2 = service.getUserByAccountNumber(accountNumber2);

if(service.getUserByAccountNumber(accountNumber2)!= null) {

Long updatedAmount1 = user1.getBalance() - amount;

Long updatedAmount2 = user2.getBalance() + amount;

user1.setBalance(updatedAmount1);

service.updateUserBalance(user1);

user2.setBalance(updatedAmount2);

service.updateUserBalance(user2);

map.addAttribute("message", "Amount Transfered Successfully");

userTransactionsService.saveUserTransactions(new UserTransactions(user1.getAccountNumber(),"transfer",amount,user1.getBalance()));

userTransactionsService.saveUserTransactions(new UserTransactions(user2.getAccountNumber(),"credit",amount,user2.getBalance()));

grantAccessService.saveGrantAccess(new GrantAccess(user1.getAccountNumber(),"transfer",amount,user1.getBalance()- amount));

grantAccessService.saveGrantAccess(new GrantAccess(user2.getAccountNumber(),"credit",amount,user2.getBalance()+ amount));

}

return "TransferFunds";

}

@GetMapping("/RequestChequeBook")

public String RequestChequeBook() {

// m.addAttribute("profile", service.getUserByAccountNumber(accountNumber));

return "RequestChequeBook";

}

@PostMapping("/RequestChequeBook")

public String RequestChequeBook(@RequestParam("accountNumber")String accountNumber,

@RequestParam("leafSize")String leafSize,ModelMap map) {

User user = service.getUserByAccountNumber(accountNumber);

if(user !=null) {

RequestChequeBook rcb = new RequestChequeBook();

rcb.setAccountNumber(accountNumber);

rcb.setLeafSize(leafSize);

rcb.setStatus("Requested");

map.addAttribute("message","Cheque Book Request Submitted and will be delivered in 15 days");

rcbService.saveChequeBook(rcb);

}

return "RequestChequeBook";

}

@PostMapping("/userPassword")

public String UpdatePassword(@RequestParam("accountNumber")String accountNumber,

@RequestParam("password")String password,HttpServletRequest request) {

User user = service.getUserByAccountNumber(accountNumber);

if(user != null) {

user.setPassword(password);

service.updateUserBalance(user);

return "UserLogin";

}else {

request.setAttribute("errmsg", "Failed to update password");

return "UserUpdatePassword";

}

}

@GetMapping("/UserTransactions/{accountNumber}")

public String userTransactions(@PathVariable String accountNumber, ModelMap map) {

map.addAttribute("userTransactions", userTransactionsService.getUserTransactions(accountNumber));

return "UserTransactions";

}

}

**JSP PAGES**

1. **AdminDashboard.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"*>

<h2>Hi ${name }</h2>

<!-- <p>Use the .flex-column class to create a vertical nav:</p> -->

<ul class=*"nav flex-column"*>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"UserList"*>User List</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"allTransactions"*>Transactions List</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"GrantAccess"*>Grant Access</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"chequeList"*>Cheque Book Requests</a>

</li>

</ul>

</div>

</body>

</html>

1. **AdminLogin.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

<style>

**sup**{

color:*red*;

}

</style>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"*>

<h3>Admin Login</h3>

<form action=*"Login"* method=*"post"*

style="width: *400px*; height: *220px*;">

<div class=*"form-group"*>

<label for=*"an"*>Email<sup>\*</sup></label> <input type=*"text"*

class=*"form-control"* id=*"an"* name=*"email"* placeholder=*"Enter email"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"exampleInputPassword1"*>Password<sup>\*</sup></label> <input

type=*"password"* class=*"form-control"* id=*"password"*

name=*"password"* placeholder=*"Enter Password"* required=*"required"*>

</div>

<button type=*"submit"* class=*"btn btn-primary"*>Login</button>

<p style="color: *red*;">${errmsg}</p>

</form>

<a href=*"AdminRegistration"* style="font-size: *25*; color: *red*;">Create

Account</a><br>

<a href=*"AdminUpdatePassword"* style="font-size: *25*; color: *red*;">Change Password</a>

</div>

</body>

</html>

1. **AllTransactionsList.jsp**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"* style="width:*70%*">

<h2>All Transaction List</h2>

<br>

<table class=*"table table-bordered table-hover"* style="width: *60%*">

<thead class=*"thead-dark"*>

<tr>

<th>Account Number</th>

<th>Amount</th>

<th>Date</th>

<th>Balance</th>

<th>Delete</th>

</tr>

</thead>

<tbody class=*"bg-warning"*>

<c:forEach var=*"request"* items=*"*${transactions }*"*>

<tr>

<td>${request.accountNumber }</td>

<td>${request.amount }</td>

<td>${request.date }</td>

<td>${request.balance }</td>

<td><a href=*"deleteTransaction/*${request.id}*"*>Delete</a></td>

</tr>

</c:forEach>

</tbody>

</table>

</div>

</body>

</html>

1. **ChequeRequests.jsp**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div style="padding: *50px*;">

<h2>Cheque Book Requests</h2>

<br>

<table class=*"table table-bordered table-hover"* style="width: *60%*">

<thead class=*"thead-dark"*>

<tr>

<th>Account Number</th>

<th>Leaf Size</th>

<th>Status</th>

<th>Date</th>

<!--<th>Edit</th> -->

<th>Reject</th>

</tr>

</thead>

<tbody class=*"bg-warning"*>

<c:forEach var=*"cheque"* items=*"*${rcb}*"*>

<tr>

<td>${cheque.accountNumber }</td>

<td>${cheque.leafSize }</td>

<td>${cheque.status }</td>

<td>${cheque.date }</td>

<%-- <td><a href="cheque/${cheque.id}">Edit</a></td> --%>

<td><a href=*"deleteCheque/*${cheque.id}*"*>Reject</a></td>

</tr>

</c:forEach>

</tbody>

</table>

</div>

</body>

</html>

1. **DepositMoney.jsp**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"* style="padding: *20px*; width: *500px*">

<h2>Deposit Money</h2>

<br>

<form action=*"Deposit"* method=*"post"*>

<%-- <div class="form-group">

<label for="name">Account Holder Name</label> <input type="text"

class="form-control" id="name" disabled="disabled" name="name"

value="${deposit.name }">

</div> --%>

<div class=*"form-group"*>

<label for=*"account-number"*>Account Number</label> <input

type=*"text"* class=*"form-control"* id=*"account-number"*

name=*"account-number"* placeholder=*"Enter Your Account Number"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"amount"*>Amount</label> <input type=*"text"*

class=*"form-control"* id=*"amount"*

placeholder=*"Enter Amount To Be Deposit"* name=*"amount"*

required=*"required"*>

</div>

<button type=*"submit"* class=*"btn btn-primary"*>Deposit</button>

</form>

<p style="color: *green*; font-size: *18px*">${message}</p>

</div>

</body>

</html>

1. **GrantAccess.jsp**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div style="padding: *50px*;">

<h2>Grant Access</h2>

<br>

<table class=*"table table-bordered table-hover"* style="width: *60%*">

<thead class=*"thead-dark"*>

<tr>

<th>Account Number</th>

<th>Date</th>

<th>Action</th>

<th>Amount</th>

<th>Current balance</th>

<th>Delete</th>

</tr>

</thead>

<tbody class=*"bg-warning"*>

<c:forEach var=*"request"* items=*"*${grantAccess}*"*>

<tr>

<td>${request.accountNumber}</td>

<td>${request.date}</td>

<td>${request.action}</td>

<td>${request.amount}</td>

<td>${request.currentBalance}</td>

<%-- <td><a href="request?id=${request.id}">Edit</a></td> --%>

<td><a href=*"request?id=*${request.id}*"*>Delete</a></td>

</tr>

</c:forEach>

</tbody>

</table>

</div>

</body>

</html>

1. **Home.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

<style type=*"text/css"*>

*#username* {

font-size: *20px*;

font-family: *monospace*;

}

**a**{

font-size: *20px*;

}

</style>

</head>

<body>

<nav class=*"navbar navbar-expand-lg navbar-light bg-primary"*>

<button class=*"navbar-toggler"* type=*"button"* data-toggle=*"collapse"* data-target=*"#navbarTogglerDemo01"* aria-controls=*"navbarTogglerDemo01"* aria-expanded=*"false"* aria-label=*"Toggle navigation"*>

<span class=*"navbar-toggler-icon"*></span>

</button>

<div class=*"collapse navbar-collapse"* id=*"navbarTogglerDemo01"*>

<ul class=*"navbar-nav mr-auto mt-2 mt-lg-0"*>

<li class=*"nav-item active"*>

<a class=*"nav-link"* href=*"/"* >Home <span class=*"sr-only"*>(current)</span></a>

</li>

</ul>

<%

**if**(request.getAttribute("user")!=**null**){

%>

<span id=*"username"* style="align-content: *right*;padding-right: *10px*;">Welcome ${user.name}</span>

<ul class=*"navbar-nav mr-auto mt-2 mt-lg-0"* style="align-content: *right*">

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"/"*>Logout</a>

</li>

</ul>

<%

}

**else**{

%>

<ul class=*"navbar-nav mr-auto mt-2 mt-lg-0"* style="align-content: *right*">

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"UserLogin"*>User Login</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"AdminLogin"*>Admin Login</a>

</li>

</ul>

<%

}

%>

</div>

</nav>

</body>

</html>

1. **Profile.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<br><br>

<div class=*"container"*>

<table class=*"table table-striped"* style="padding: *30px*">

<tr>

<td>Name :-</td>

<td>${profile.name }</td>

</tr>

<tr>

<td>Account Number :-</td>

<td>${profile.accountNumber }</td>

</tr>

<tr>

<td>Account Balance :-</td>

<td>${profile.balance }</td>

</tr>

<tr>

<td>Email :-</td>

<td>${profile.email }</td>

</tr>

<tr>

<td>Mobile No. :-</td>

<td>${profile.phoneNumber }</td>

</tr>

<tr>

<td>DoB :-</td>

<td>${profile.dob }</td>

</tr>

</table>

</div>

</body>

</html>

1. **registerAdmin.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

<style>

**sup**{

color:*red*;

}

</style>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"*>

<h1>Admin Registration</h1>

<!-- <h2>We provide account number of your choice</h2> -->

<form action=*"save-admin"* method=*"post"*>

<div class=*"form-group"*>

<label for=*"name"*>Name<sup>\*</sup></label> <input type=*"text"*

class=*"form-control"* id=*"name"* name=*"name"* placeholder=*"Enter name"*

required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"phoneNo"*>Phone Number<sup>\*</sup></label> <input type=*"text"*

class=*"form-control"* id=*"phoneNo"* name=*"phoneNo"*

placeholder=*"Enter phone number"* required=*"required"* maxlength=*"10"*>

</div>

<div class=*"form-group"*>

<label for=*"email"*>Email<sup>\*</sup></label> <input type=*"email"*

class=*"form-control"* id=*"email"*

aria-describedby=*"emailHelp"* name=*"email"* placeholder=*"Enter email"*

required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"password"*>Password For Online Banking<sup>\*</sup></label> <input

type=*"password"* class=*"form-control"* id=*"password"* name=*"password"*

placeholder=*"Enter password"* required=*"required"* minlength=*"6"*

maxlength=*"15"*>

</div>

<button type=*"submit"* class=*"btn btn-primary"*>Register</button>

<%-- <div class="alert alert-success" role="alert">

${message }</div> --%>

</form>

</div>

</body>

</html>

1. **registerUser.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<!-- Bootstrap CSS -->

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>ICIN User Registration</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"*>

<h1>User Registration</h1>

<h2>We provide account number of your choice</h2>

<form action=*"add-user"* method=*"post"*>

<div class=*"form-group"*>

<label for=*"name"*>Name</label> <input type=*"text"*

class=*"form-control"* id=*"name"* name=*"name"* placeholder=*"Enter name"*

required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"exampleInputEmail1"*>Email</label> <input type=*"email"*

class=*"form-control"* id=*"exampleInputEmail1"*

aria-describedby=*"emailHelp"* name=*"email"* placeholder=*"Enter email"*

required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"dob"*>Date Of Birth</label> <input type=*"date"*

class=*"form-control"* id=*"dob"* name=*"dob"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"phone-number"*>Phone Number</label> <input type=*"text"*

class=*"form-control"* id=*"phone-number"* name=*"phone-number"*

placeholder=*"Enter phone number"* required=*"required"* maxlength=*"10"*>

</div>

<div class=*"form-group"*>

<label for=*"account-number"*>Account Number</label> <input

type=*"text"* class=*"form-control"* id=*"account-number"*

name=*"account-number"* maxlength=*"10"*

placeholder=*"Enter account number of your choice"*

required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"password"*>Password For Online Banking</label> <input

type=*"password"* class=*"form-control"* id=*"password"* name=*"password"*

placeholder=*"Enter password"* required=*"required"* minlength=*"6"*

maxlength=*"15"*>

</div>

<button type=*"submit"* class=*"btn btn-primary"*>Register</button>

<%-- <div class="alert alert-success" role="alert">

${message }</div> --%>

</form>

</div>

</body>

</html>

1. **RequestChequeBook.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"*>

<form action=*"RequestChequeBook"* method=*"post"*>

<div class=*"form-group"*>

<label for=*"name"*>Name on ChequeBook</label> <input

type=*"text"* class=*"form-control"* id=*"name"*

name=*"name"*>

</div>

<div class=*"form-group"*>

<label for=*"accountNumber"*>Account Number</label> <input

type=*"text"* class=*"form-control"* id=*"accountNumber"*

name=*"accountNumber"*>

</div>

<div class=*"form-group"*>

<label for=*"accountNumber"*>Leaf Size</label>

<select class=*"form-select"* name=*"leafSize"* aria-label=*"Default select example"*>

<option selected>Choose Leaf Size</option>

<option value=*"10"*>10</option>

<option value=*"25"*>25</option>

<option value=*"50"*>50</option>

</select>

</div>

<button type=*"submit"* class=*"btn btn-primary"*>Request</button>

</form>

<p style="color: *green*; font-size: *18px*">${message}</p>

</div>

</body>

</html>

1. **TransferFunds.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"* style="padding: *20px*; width: *500px*">

<h2>Transfer Money</h2>

<br>

<form action=*"transferFunds"* method=*"post"*>

<div class=*"form-group"*>

<label for=*"account-number1"*>From Account Number</label> <input

type=*"text"* class=*"form-control"* id=*"account-number1"*

name=*"account-number1"* placeholder=*"Enter Your Account Number"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"account-number2"*>To Account Number</label> <input

type=*"text"* class=*"form-control"* id=*"account-number2"*

name=*"account-number2"* placeholder=*"Enter Beneficary Account Number"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"amount"*>Amount</label> <input type=*"text"*

class=*"form-control"* id=*"amount"*

placeholder=*"Enter Amount To Be Withdrawal"* name=*"amount"*

required=*"required"*>

</div>

<button type=*"submit"* class=*"btn btn-primary"*>Transfer</button>

</form>

<p style="color: *green*; font-size: *18px*">${message}</p>

</div>

</body>

</html>

1. **UpdateAdminPassword.jsp**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

<script type=*"text/javascript"*>

**var** check = **function**(){

**if** (document.getElementById('password').value ==

document.getElementById('confirm\_password').value)

{

document.getElementById('message').style.color = 'green';

document.getElementById('message').innerHTML = 'Password matching';

}

**else** {

document.getElementById('message').style.color = 'red';

document.getElementById('message').innerHTML = 'Password not matching';

}

}

</script>

</head>

<body>

<div class=*"container"* style="padding: *50px*;">

<h3>Admin Change Password</h3>

<form action=*"adminUpdatePassword"* method=*"post"*>

<div class=*"form-group"*>

<label for=*"email"*>User Name</label>

<input type=*"text"* class=*"form-control"* id=*"email"* name=*"email"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"password"*>Password</label>

<input type=*"text"* class=*"form-control"* id=*"password"* name=*"password"* min=*"6"* maxlength=*"15"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"confirm\_password"*>Password</label>

<input type=*"text"* class=*"form-control"* id=*"confirm\_password"* name=*"confirm\_password"* min=*"6"* maxlength=*"15"* required=*"required"* onkeyup='check();'>

</div>

<p id=*"message"*></p>

<button type=*"submit"* class=*"btn btn-info"*>Change Password</button>

</form>

<%-- <p style="color: green; font-size: 18px">${message}</p> --%>

</div>

</body>

</html>

1. **UpdateUserPassword.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

<script type=*"text/javascript"*>

**var** check = **function**(){

**if** (document.getElementById('password').value ==

document.getElementById('confirm\_password').value)

{

document.getElementById('message').style.color = 'green';

document.getElementById('message').innerHTML = 'Password matching';

}

**else** {

document.getElementById('message').style.color = 'red';

document.getElementById('message').innerHTML = 'Password not matching';

}

}

</script>

</head>

<body>

<div class=*"container"* style="padding: *50px*;">

<h3>User Change Password</h3>

<form action=*"userPassword"* method=*"post"*>

<div class=*"form-group"*>

<label for=*"accountNumber"*>Account Number</label>

<input type=*"text"* class=*"form-control"* id=*"accountNumber"* name=*"accountNumber"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"password"*>Password</label>

<input type=*"text"* class=*"form-control"* id=*"password"* name=*"password"* min=*"6"* maxlength=*"15"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"confirm\_password"*>Password</label>

<input type=*"text"* class=*"form-control"* id=*"confirm\_password"* name=*"confirm\_password"* min=*"6"* maxlength=*"15"* required=*"required"* onkeyup='check();'>

</div>

<p id=*"message"*></p>

<button type=*"submit"* class=*"btn btn-info"*>Change Password</button>

<p style="color: *green*; font-size: *18px*">${errmsg}</p>

</form>

<%-- --%>

</div>

</body>

</html>

1. **UserBalance.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"*>

<h1>

Account Balance :- <span>= ${balance}</span>

</h1>

</div>

</body>

</html>

1. **UserDashboard.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"*>

<h2>Hi ${userName }</h2>

<!-- <p>Use the .flex-column class to create a vertical nav:</p> -->

<ul class=*"nav flex-column"*>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"UserProfile/*${user.accountNumber }*"*>Profile</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"UserBalance/*${user.accountNumber }*"*>Bank Balance</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"DepositMoney"*>Deposit</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"WithdrawMoney"*>Withdrawal</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"TransferFunds"*>Fund Transfer</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"RequestChequeBook"*>Cheque Book</a>

</li>

<li class=*"nav-item"*>

<a class=*"nav-link"* href=*"UserTransactions/*${user.accountNumber }*"*>Statement</a>

</li>

</ul>

</div>

</body>

</html>

1. **UserList.jsp**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"* style="width:*70%*">

<h2>Users List</h2>

<br>

<table class=*"table table-bordered table-hover"* style="width: *60%*">

<thead class=*"thead-dark"*>

<tr>

<th>Account Number</th>

<th>Account Holder Name</th>

<th>Dob</th>

<th>email</th>

<th>Phone Number</th>

<th>Current balance</th>

<!-- <th>Accept</th> -->

<th>Reject</th>

</tr>

</thead>

<tbody class=*"bg-warning"*>

<c:forEach var=*"request"* items=*"*${users}*"*>

<tr>

<td>${request.accountNumber }</td>

<td>${request.name }</td>

<td>${request.dob }</td>

<td>${request.email }</td>

<td>${request.phoneNumber }</td>

<td>${request.balance }</td>

<%-- <td><a href="request?id=${request.id}">Accept</a></td> --%>

<td><a href=*"delete/*${request.id}*"*>Delete</a></td>

</tr>

</c:forEach>

</tbody>

</table>

</div>

</body>

</html>

1. **UserLogin.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>User Login</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<!-- <nav class="navbar navbar-expand-lg navbar-light bg-light">

<button class="navbar-toggler" type="button" data-toggle="collapse"

data-target="#navbarTogglerDemo01"

aria-controls="navbarTogglerDemo01" aria-expanded="false"

aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarTogglerDemo01">

<ul class="navbar-nav mr-auto mt-2 mt-lg-0">

<li class="nav-item active"><a class="nav-link" href="/">Home</a>

</li>

</ul>

</div>

</nav> -->

<div class=*"container"* style="padding-left: *10px*">

<h3>User Login</h3>

<form action=*"UserPage"* method=*"post"*

style="width: *400px*; height: *220px*;">

<div class=*"form-group"*>

<label for=*"an"*>Account Number<sup>\*</sup></label> <input type=*"text"*

class=*"form-control"* id=*"an"* name=*"account-number"* placeholder=*"Enter Accounr Number"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"exampleInputPassword1"*>Password<sup>\*</sup></label> <input

type=*"password"* class=*"form-control"* id=*"exampleInputPassword1"*

name=*"password"* placeholder=*"Enter Password"* required=*"required"*>

</div>

<button type=*"submit"* class=*"btn btn-primary"*>Login</button>

<p style="color: *yellow*;">${message}</p>

</form>

<a href=*"UserRegistration"* style="font-size: *25*; color: *red*;">Create Account</a><br>

<a href=*"UserUpdatePassword"* style="font-size: *25*; color: *red*;">Change Password</a>

</div>

</body>

</html>

1. **UserTransactions.jsp**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"* href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"* integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"* crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"* style="width:*70%*">

<h2>Statement</h2>

<br>

<table class=*"table table-bordered table-hover"* style="width: *60%*">

<thead class=*"thead-dark"*>

<tr>

<th>Account Number</th>

<th>Amount</th>

<th>Date</th>

<th>Balance</th>

<!-- <th>Accept</th> -->

</tr>

</thead>

<tbody class=*"bg-warning"*>

<c:forEach var=*"request"* items=*"*${userTransactions }*"*>

<tr>

<td>${request.accountNumber }</td>

<td>${request.amount }</td>

<td>${request.date }</td>

<td>${request.balance }</td>

</tr>

</c:forEach>

</tbody>

</table>

</div>

</body>

</html>

1. **WithDrawalMoney.jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<link rel=*"stylesheet"*

href=*"https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"*

integrity=*"sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"*

crossorigin=*"anonymous"*>

<title>ICIN Bank</title>

</head>

<body>

<jsp:include page=*"home.jsp"*></jsp:include>

<div class=*"container"* style="padding: *20px*; width: *500px*">

<h2>Withdraw Money</h2>

<br>

<form action=*"Withdraw"* method=*"post"*>

<div class=*"form-group"*>

<label for=*"account-number"*>Account Number</label> <input

type=*"text"* class=*"form-control"* id=*"account-number"*

name=*"account-number"* placeholder=*"Enter Your Account Number"* required=*"required"*>

</div>

<div class=*"form-group"*>

<label for=*"amount"*>Amount</label> <input type=*"text"*

class=*"form-control"* id=*"amount"*

placeholder=*"Enter Amount To Be Withdrawal"* name=*"amount"*

required=*"required"*>

</div>

<button type=*"submit"* class=*"btn btn-primary"*>Withdraw</button>

</form>

<p style="color: *green*; font-size: *18px*">${message}</p>

</div>

</body>

</html>