```
import java.util.*;
class User {
  private String username;
  private String password;
  private double walletAmount;
  private boolean isAdmin;
  public User(String username, String password, double walletAmount, boolean isAdmin) {
    this.username = username;
    this.password = password;
    this.walletAmount = walletAmount;
    this.isAdmin = isAdmin;
  }
  public String getUsername() {
    return username;
  }
  public String getPassword() {
    return password;
  }
  public double getWalletAmount() {
    return walletAmount;
  }
  public void setWalletAmount(double walletAmount) {
    this.walletAmount = walletAmount;
  }
```

```
public boolean isAdmin() {
    return isAdmin;
  }
  public void setAdmin(boolean isAdmin) {
    this.isAdmin = isAdmin;
  }
}
class Camera {
  private String brand;
  private String model;
  private double rentalAmount;
  public Camera(String brand, String model, double rentalAmount) {
    this.brand = brand;
    this.model = model;
    this.rentalAmount = rentalAmount;
  }
  public String getBrand() {
    return brand;
  }
  public String getModel() {
    return model;
  }
  public double getRentalAmount() {
    return rentalAmount;
  }
```

```
class CamRentalApp {
  private static List<User> userList = new ArrayList<>();
  private static List<Camera> cameraList = new ArrayList<>();
  private static User loggedInUser = null;
  public static void main(String[] args) {
    populateUserList();
    populateCameraList();
    System.out.println("Welcome to CamRental!");
    System.out.println("Java Developer: [Balaji G]");
    System.out.println("-----");
    loginOrRegister();
  }
  private static void populateUserList() {
    userList.add(new User("Admin221", "Bu@221", 0.0, true));
    userList.add(new User("user1", "password1", 50.0, false));
    userList.add(new User("user2", "password2", 100.0, false));
  }
  private static void populateCameraList() {
    cameraList.add(new Camera("Canon", "D3500", 50.0));
    cameraList.add(new Camera("Nikon", "V500", 55.0));
    cameraList.add(new Camera("Sony", "A7R IV", 60.0));
  }
  private static void loginOrRegister() {
    System.out.println("\nLogin/Register Menu:");
    System.out.println("1. Login");
```

}

```
System.out.println("2. Register");
  System.out.println("3. Exit");
  Scanner scanner = new Scanner(System.in);
  int choice = scanner.nextInt();
  switch (choice) {
    case 1:
      login();
      break;
    case 2:
      register();
      break;
    case 3:
      exitApp();
      break;
    default:
      System.out.println("Invalid choice. Please try again.");
      loginOrRegister();
      break;
  }
}
private static void login() {
  System.out.println("\nLogin:");
  System.out.println("-----");
  System.out.println("Enter username:");
  Scanner scanner = new Scanner(System.in);
  String username = scanner.nextLine();
  System.out.println("Enter password:");
  String password = scanner.nextLine();
  for (User user: userList) {
    if (user.getUsername().equals(username) && user.getPassword().equals(password)) {
```

```
loggedInUser = user;
      System.out.println("Login successful. Welcome, " + username + "!");
      if (user.isAdmin()) {
        showAdminMenu();
      } else {
        showMainMenu();
      }
      return;
    }
  }
  System.out.println("Invalid username or password. Please try again.");
  login();
}
private static void register() {
  System.out.println("\nRegister:");
  System.out.println("-----");
  System.out.println("Enter username:");
  Scanner scanner = new Scanner(System.in);
  String username = scanner.nextLine();
  System.out.println("Enter password:");
  String password = scanner.nextLine();
  userList.add(new User(username, password, 0.0, false));
  System.out.println("Registration successful. You can now login with your credentials.");
  loginOrRegister();
}
private static void showMainMenu() {
  System.out.println("\nMain Menu:");
  System.out.println("1. List Cameras");
  System.out.println("2. Rent Camera");
```

```
System.out.println("3. Wallet");
  System.out.println("4. Add Money to Wallet");
  System.out.println("5. Logout");
  Scanner scanner = new Scanner(System.in);
  int choice = scanner.nextInt();
  switch (choice) {
    case 1:
      listCameras();
      break;
    case 2:
      rentCamera();
      break;
    case 3:
      viewWalletAmount();
      break;
    case 4:
      addMoneyToWallet();
      break;
    case 5:
      loggedInUser = null;
      loginOrRegister();
      break;
    default:
      System.out.println("Invalid choice. Please try again.");
      showMainMenu();
      break;
  }
private static void listCameras() {
  System.out.println("\nAvailable Cameras:");
```

}

```
System.out.println("-----");
           System.out.println("ID\tBrand\tModel\tRental Amount");
           for (int i = 0; i < cameraList.size(); i++) {
                Camera camera = cameraList.get(i);
                System.out.println(i + 1 + "\t" + camera.getBrand() + "\t" + camera.getModel() + "\t" + camera.getMo
camera.getRentalAmount());
          }
           showMainMenu();
     }
     private static void rentCamera() {
           System.out.println("\nRent Camera:");
           System.out.println("-----");
           System.out.println("Enter the camera ID or 0 to go back:");
           Scanner scanner = new Scanner(System.in);
           int camerald = scanner.nextInt();
           if (camerald >= 1 && camerald <= cameraList.size()) {
                Camera selectedCamera = cameraList.get(camerald - 1);
                System.out.println("Selected Camera: " + selectedCamera.getBrand() + " " +
selectedCamera.getModel());
                System.out.println("Enter rental duration (in days):");
                int rentalDuration = scanner.nextInt();
                double rentalAmount = selectedCamera.getRentalAmount() * rentalDuration;
                if (loggedInUser.getWalletAmount() >= rentalAmount) {
                      loggedInUser.setWalletAmount(loggedInUser.getWalletAmount() - rentalAmount);
                     System.out.println("Camera rented successfully!");
                     System.out.println("Rental Amount: $" + rentalAmount);
                } else {
                     System.out.println("Insufficient wallet balance. Please add money to the wallet.");
                }
           } else if (camerald == 0) {
                showMainMenu();
```

```
} else {
      System.out.println("Invalid camera ID. Please try again.");
      rentCamera();
    }
    showMainMenu();
  }
  private static void viewWalletAmount() {
    System.out.println("\nWallet Amount: $" + loggedInUser.getWalletAmount());
    showMainMenu();
  }
  private static void addMoneyToWallet() {
    System.out.println("\nAdd Money to Wallet:");
    System.out.println("-----");
    System.out.println("Enter the amount to add to the wallet:");
    Scanner scanner = new Scanner(System.in);
    double amount = scanner.nextDouble();
    System.out.println("Enter card number:");
    String cardNumber = scanner.next();
    System.out.println("Processing payment...");
    loggedInUser.setWalletAmount(loggedInUser.getWalletAmount() + amount);
    System.out.println("Payment successful. Wallet amount updated: $" +
loggedInUser.getWalletAmount());
    showMainMenu();
  }
  private static void exitApp() {
    System.out.println("\nThank you for using CamRental. Goodbye!");
    System.exit(0);
```

```
}
```

```
private static void showAdminMenu() {
  System.out.println("\nAdmin Menu:");
  System.out.println("1. List Cameras");
  System.out.println("2. Add Camera");
  System.out.println("3. Delete Camera");
  System.out.println("4. Logout");
  Scanner scanner = new Scanner(System.in);
  int choice = scanner.nextInt();
  switch (choice) {
    case 1:
      listCameras();
      break;
    case 2:
      addCamera();
      break;
    case 3:
      deleteCamera();
      break;
    case 4:
      loggedInUser = null;
      loginOrRegister();
      break;
    default:
      System.out.println("Invalid choice. Please try again.");
      showAdminMenu();
      break;
 }
}
```

```
private static void addCamera() {
  System.out.println("\nAdd Camera:");
  System.out.println("-----");
  System.out.println("Enter brand:");
  Scanner scanner = new Scanner(System.in);
  String brand = scanner.nextLine();
  System.out.println("Enter model:");
  String model = scanner.nextLine();
  System.out.println("Enter rental amount:");
  double rentalAmount = scanner.nextDouble();
  cameraList.add(new Camera(brand, model, rentalAmount));
  System.out.println("Camera added successfully!");
  showAdminMenu();
}
private static void deleteCamera() {
  System.out.println("\nDelete Camera:");
  System.out.println("-----");
  System.out.println("Enter the camera ID or 0 to go back:");
  Scanner scanner = new Scanner(System.in);
  int camerald = scanner.nextInt();
  if (camerald >= 1 && camerald <= cameraList.size()) {
    Camera deletedCamera = cameraList.remove(camerald - 1);
    System.out.println("Camera deleted successfully:");
    System.out.println("Brand: " + deletedCamera.getBrand());
    System.out.println("Model: " + deletedCamera.getModel());
  } else if (camerald == 0) {
    showAdminMenu();
  } else {
    System.out.println("Invalid camera ID. Please try again.");
    deleteCamera();
```

```
}
showAdminMenu();
}
```