

banking-app-with collection - bankingapp-with-collection/src/com/indium/bankingapp/BankingAppMain.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer ×

bankingapp-with-collection [indium_javabootcamp-17]

- src
 - com.indium.bankingapp
 - BankingAppMain.java
 - com.indium.bankingapp.model
 - Account.java
 - com.indium.bankingapp.service
 - AccountService.java
 - AccountServiceArrListImpl.java
 - AccountServiceHashMapImpl.java
 - AccountServiceHashSetImpl.java
 - AccountServiceLnkListImpl.java
 - AccountServiceTreeMapImpl.java
 - AccountServiceTreeSetImpl.java

BankingAppMain.java ×

```
33
34
35     switch (choice) {
36         case 1:
37             captureAccountDetails(accountService, scanner);
38             break;
39         case 2:
40             updateAccountDetails(accountService, scanner);
41             break;
42         case 3:
43             viewAccountDetails(accountService, scanner);
44             break;
45         case 4:
46             viewAllAccounts(accountService);
47             break;
48         case 5:
49             deleteAccount(accountService, scanner);
50             break;
51         case 6:
52             System.out.println("Exiting the Banking App.");
53             scanner.close();
54             System.exit(0);
55         default:
56             System.out.println("Invalid choice. Please enter a valid option.");
57     }
58 }
59
60 private static AccountService createAccountService() {
61     // Example for ArrayList implementation
62     // return new AccountServiceArrListImpl();
63
64     // Example for LinkedList implementation
65     // return new AccountServiceLnkListImpl();
66 }
```

Task List ×

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create a local task.

Outline ×

com.indium.bankingapp
BankingAppMain

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File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer × BankingAppMain.java ×

bankingapp-with-collection [indium_javabootcamp-
JRE System Library [JavaSE-17]
src
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AccountServiceHashSetImpl.java
AccountServiceLinkedListImpl.java
AccountServiceTreeMapImpl.java
AccountServiceTreeSetImpl.java

```
59  
60 private static AccountService createAccountService() {  
61     // Example for ArrayList implementation  
62     // return new AccountServiceArrayListImpl();  
63  
64     // Example for LinkedList implementation  
65     // return new AccountServiceLinkedListImpl();  
66  
67     // Example for HashSet implementation  
68     // return new AccountServiceHashSetImpl();  
69  
70     // Example for TreeSet implementation  
71     // return new AccountServiceTreeSetImpl();  
72  
73     // Example for HashMap implementation  
74     // return new AccountServiceHashMapImpl();  
75  
76     // Example for TreeMap implementation  
77     return new AccountServiceTreeMapImpl();  
78  
79     // return null; // Update with desired implementation  
80 }  
81  
82 private static boolean isValidAccountType(String accountType) {  
83     return accountType.equals("savings") || accountType.equals("deposit") || accountType.equals("loan");  
84 }  
85  
86 private static void captureAccountDetails(AccountService accountService, Scanner scanner) {  
87     System.out.print("Enter Account Type (savings/deposit/loan): ");  
88     String accountType = scanner.nextLine().toLowerCase();  
89  
90     if (!isValidAccountType(accountType)) {  
91         System.out.println("Invalid account type. Please enter 'savings', 'deposit', or 'loan'.");  
92     }  
93  
94     if (accountType.equals("savings")) {  
95         accountService.createSavingsAccount();  
96     } else if (accountType.equals("deposit")) {  
97         accountService.createDepositAccount();  
98     } else if (accountType.equals("loan")) {  
99         accountService.createLoanAccount();  
100     }  
101 }  
102  
103 public static void main(String[] args) {  
104     Scanner scanner = new Scanner(System.in);  
105     AccountService accountService = createAccountService();  
106     captureAccountDetails(accountService, scanner);  
107 }  
108
```

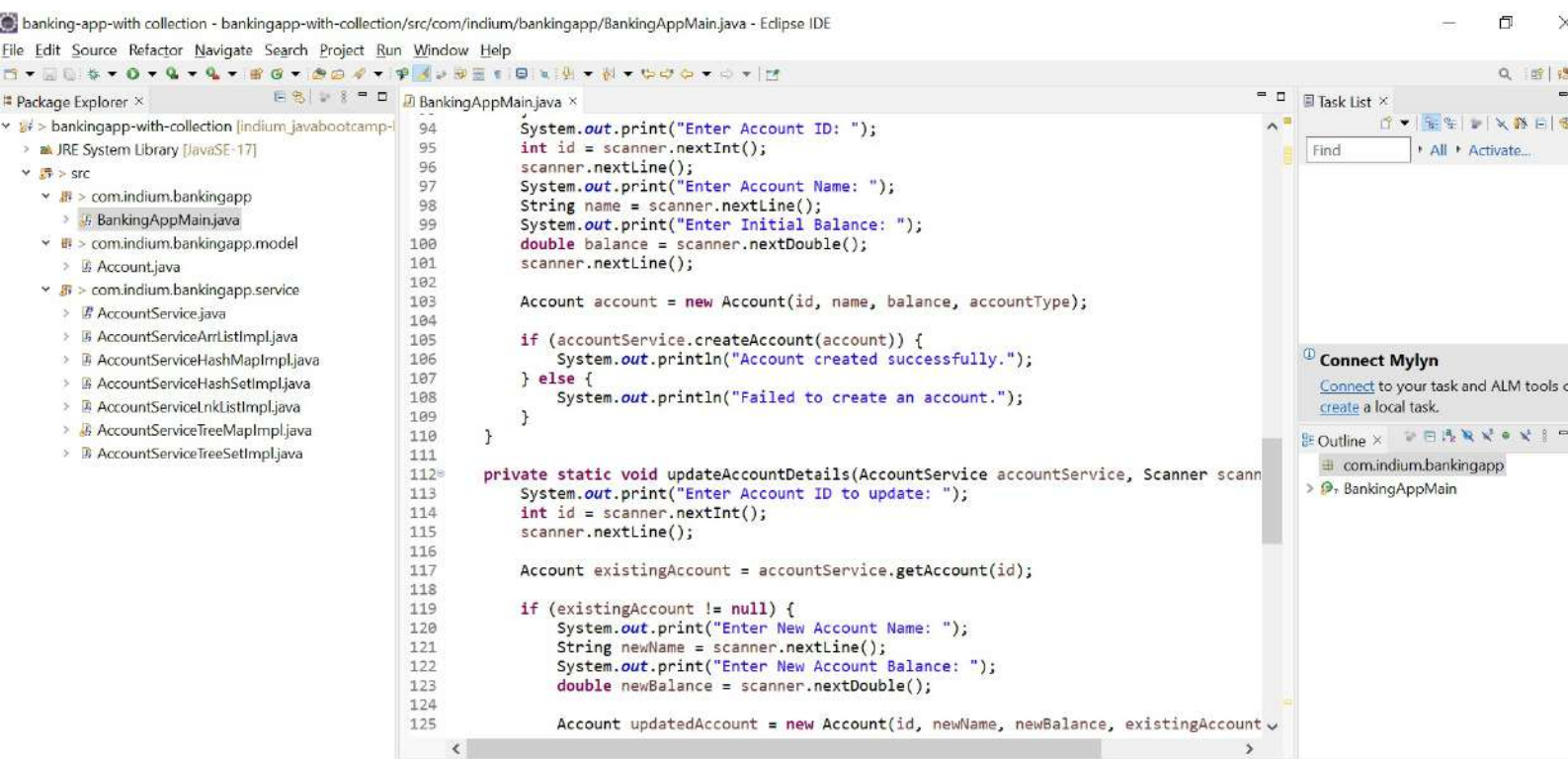
Problems Javadoc Declaration Console ×

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 - AccountServiceTreeSetImpl.java

BankingAppMain.java

```
124
125     Account updatedAccount = new Account(id, newName, newBalance, existingAccount
126
127     if (accountService.updateAccount(id, updatedAccount)) {
128         System.out.println("Account updated successfully.");
129     } else {
130         System.out.println("Failed to update the account.");
131     }
132 } else {
133     System.out.println("Account not found.");
134 }
135 }
136
137 private static void viewAccountDetails(AccountService accountService, Scanner scanner) {
138     System.out.print("Enter Account ID to view: ");
139     int id = scanner.nextInt();
140     scanner.nextLine();
141
142     Account account = accountService.getAccount(id);
143
144     if (account != null) {
145         System.out.println("Account Details:");
146         System.out.println("ID: " + account.getId());
147         System.out.println("Name: " + account.getName());
148         System.out.println("Balance: " + account.getBalance());
149         System.out.println("Account Type: " + account.getAccountType());
150     } else {
151         System.out.println("Account not found.");
152     }
153 }
154
155 private static void viewAllAccounts(AccountService accountService) {
156     Collection<Account> accounts = accountService.getAllAccounts();
```

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