New folder - Practice/src/com/accenture/bean/AccountBean.java

172.31.74.40

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- SpringMVCJPADataBankingHON
- SpringMVCJPADemo
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- SpringMVCLoginValidation
- SpringMVCRegForm

BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean

```java
1  package com.accenture.bean;
2
3  import javax.validation.constraints.NotNull;
4
5
6  public class AccountBean {
7      /**
8       To-Do Item 1.14: Use Spring MVC standard validation
9       TODO:
10          -- Ensure accountNumber is a mandatory field.
11      */
12     @NotNull
13     private Integer accountNumber;
14     private String accountHolderName;
15     private String accountType;
16     private Double balance;
17
18 private Double amount;
19
20
21     public Double getAmount() {
22         return amount;
23     }
24
25     public void setAmount(Double amount) {
26         this.amount = amount;
27     }
28
29     public Integer getAccountNumber() {
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

Tomcat v8.0 Server at localhost [Apache Tomcat] C:\Program Files\java-1.8.0-openjdk-1.8.0.362\bin\javaw.exe (Oct 9, 2024, 5:32:04 PM)

```
INFO: Looking for @ControllerAdvice: WebApplicationContext for namespace 'bank-servlet': startup date [Wed Oct
Oct 09, 2024 5:33:21 PM org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter in
INFO: Looking for @ControllerAdvice: WebApplicationContext for namespace 'bank-servlet': startup date [Wed Oct
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INFO: FrameworkServlet 'bank': initialization completed in 910 ms
Hibernate: select accountent0_.accountNumber as col_0_0_ from Account accountent0_
Hibernate: select accountent0_.accountNumber as col_0_0_ from Account accountent0_
```

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ountDAO.java -

ct Run Window Help

Quick Access

BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

```java
package com.accenture.dao;

import java.util.List;



@RepositoryDefinition(domainClass = AccountEntity.class, idClass = Integer.class)
@Transactional
public interface AccountDAO extends CrudRepository<AccountEntity, Integer>{

    /**
    To-Do Item 1.2:: This method should retrieve all account numbers from the database.
    TODO:
    --Annotate the method with @Query to use JPQL query defined in orm.xml.
  */
    @Query(name = "findAllAccountNumbers")
    public List<Integer> getAllAccountNumbers();

}
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

Tomcat v8.0 Server at localhost [Apache Tomcat] C:\Program Files\java-1.8.0-openjdk-1.8.0.362\bin\javaw.exe (Oct 9, 2024, 5:32:04 PM)

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Hibernate: select accountent0_.accountNumber as col_0_0_ from Account accountent0_
```

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New folder - Practice/src/com/accenture/dao/AccountDAOWrapper

172.31.74.40

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      - AccountDAO.java
      - AccountDAOWrapper.java
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- SpringMVCRegForm

BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

Quick Access

```
1
2  package com.accenture.dao;
3
4⊕ import java.util.List;
16
17
18
19 @Repository
20 public class AccountDAOWrapper {
21
22     @Autowired
23     private AccountDAO accountDao;
24
25     /**
26       To-Do Item 1.3: This method should retrieve all account numbers.
27                 NOTE:This requirement needs to be implemented using Spring JPA Data
28       TODO:
29         --Invoke getAllAccountNumbers method of AccountDAO to get details of account numbers.
30         --Return the list of Integer.
31      */
32     public List<Integer> getAllAccountNumbers() {
33         return accountDao.getAllAccountNumbers();
34     }
35
36     /**
37       To-Do Item 1.4: This method should update the account details to debit the amount from the account balance
38             NOTE: This requirement needs to be implemented using Spring JPA Data.
39       TODO:
40         --Convert AccountBean to AccountEntity (Hint: Utilize provided utility methods)
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

Tomcat v8.0 Server at localhost [Apache Tomcat] C:\Program Files\java-1.8.0-openjdk-1.8.0.362\bin\javaw.exe (Oct 9, 2024, 5:32:04 PM)

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```

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New folder - Practice/src/com/accenture/dao/AccountDAOWrapp

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BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.j

```
35
36      /**
37        To-Do Item 1.4: This method should update the account details to debit the amount from the account ba
38              NOTE: This requirement needs to be implemented using Spring JPA Data.
39        TODO:
40          --Convert AccountBean to AccountEntity (Hint: Utilize provided utility methods)
41          --Invoke the save method of the AccountDAO interface to update the account details that performed w
42          --Convert the saved AccountEntity back to a AccountBean
43          --Return the details of the updated AccountBean.
44       */
45      public AccountBean withdrawAmount(AccountBean account) {
46          AccountEntity entity = convertAccountBeanToAccountEntity(account);
47          entity.setBalance(entity.getBalance() - entity.getAmount());
48          AccountEntity updatedEntity = accountDao.save(entity);
49          return convertAccountEntityToAccountBean(updatedEntity);
50      }
51
52      /**
53        To-Do Item 1.5: This method should update the account details to credit the amount to the account balar
54              NOTE: This requirement needs to be implemented using Spring JPA Data.
55        TODO:
56          --Convert AccountBean to AccountEntity (Hint: Utilize provided utility methods)
57          --Invoke the save method of the AccountDAO interface to update the account details that performed wit
58          --Convert the saved AccountEntity back to a AccountBean
59          --Return the details of the updated AccountBean.
60       */
61      public AccountBean depositAmount(AccountBean account) {
62          AccountEntity entity = convertAccountBeanToAccountEntity(account);
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

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BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

```
        --Convert AccountBean to AccountEntity (Hint: Utilize provided utility methods)
        --Invoke the save method of the AccountDAO interface to update the account details that performed withdr
        --Convert the saved AccountEntity back to a AccountBean
        --Return the details of the updated AccountBean.
    */
    public AccountBean depositAmount(AccountBean account) {
        AccountEntity entity = convertAccountBeanToAccountEntity(account);
        entity.setBalance(entity.getBalance() + entity.getAmount());
        AccountEntity updatedEntity = accountDao.save(entity);
        return convertAccountEntityToAccountBean(updatedEntity);
    }

    /**
      To-Do Item 1.6: This method should retrieve account details with respect to the account number.
                NOTE:This requirement needs to be implemented using Spring JPA Data
      TODO:
        --Invoke findOne method of AccountDAO to get account details.
        --Convert fetched AccountEntity to AccountBean.(Hint: Utilize provided utility methods)
        --Return the converted AccountBean.
    */
    public AccountBean getAccountDetails(AccountBean account) {
        AccountEntity entity = accountDao.findOne(account.getAccountNumber());
        return convertAccountEntityToAccountBean(entity);
    }

    // Utility Method
    public AccountBean convertAccountEntityToAccountBean(AccountEntity entity) {
        AccountBean account = new AccountBean();
        BeanUtils.copyProperties(entity, account);
```

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```

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New folder - Practice/src/com/accenture/service/AccountService.ja

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BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

```
1  package com.accenture.service;
2
3⊕ import java.util.List;
7
8
9  public interface AccountService {
10
11     public List<Integer> getAllAccountNumbers();
12     public AccountBean getAccountDetails(AccountBean account);
13     public AccountBean depositAmount(AccountBean account);
14     public AccountBean withdrawAmount(AccountBean account) throws InsufficientFundsException;
15
16 }
17
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

Tomcat v8.0 Server at localhost [Apache Tomcat] C:\Program Files\java-1.8.0-openjdk-1.8.0.362\bin\javaw.exe (Oct 9, 2024, 5:32:04 PM)

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Hibernate: select accountent0_.accountNumber as col_0_0_ from Account accountent0_
```

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New folder - Practice/src/com/accenture/service/AccountServiceImpl.java - Eclipse IDE

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BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

```java
1  package com.accenture.service;
2
3⊕ import java.util.List;
11
12 @Service
13 public class AccountServiceImpl implements AccountService {
14
15⊖     @Autowired
16      private AccountDAOWrapper accountDAOWrapper;
17
18⊖     /**
19       * To-Do Item 1.7: This method should fetch all account numbers. TODO: --Invoke
20       * the getAllAccountNumbers method of AccountDAOWrapper class. --Return all
21       * account numbers.
22       */
23⊖     public List<Integer> getAllAccountNumbers() {
24          return accountDAOWrapper.getAllAccountNumbers();
25      }
26
27⊖     /**
28       * To-Do Item 1.8: This method should update the account details to debit the
29       * amount from the account balance (substract amount from balance) in the
30       * database.
31       *
32       * TODO: --Invoke getAccountDetails method of AccountDAOWrapper to get account
33       * details of the given number. --Check the minimum balance after withdraw.
34       * --The minimum balance for saving account must be 5000. --The minimum balance
35       * for current account must be 15000. --After withdrawing amount if the balance
36       * is greater than the minimum balance then invoke withdrawAmount method of
```

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Hibernate: select accountent0_.accountNumber as col_0_0_ from Account accountent0_
```

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BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

```
36      * is greater than the minimum balance then invoke withdrawAmount method of
37      * AccountDAOWrapper class, and Return the details of the updated AccountBean.
38      * --After withdrawing amount if balance is less than minimum balance this
39      * method have to throw an exception of InsufficientFundsException
40      */
41     public AccountBean withdrawAmount(AccountBean account) throws InsufficientFundsException {
42         AccountBean accountDetails = accountDAOWrapper.getAccountDetails(account);
43         double newBalance = accountDetails.getBalance() - account.getAmount();
44         if (("savings".equalsIgnoreCase(accountDetails.getAccountType()) && newBalance < 5000)
45                 || ("current".equalsIgnoreCase(accountDetails.getAccountType()) && newBalance < 15000)) {
46             throw new InsufficientFundsException();
47         }
48         accountDetails.setAmount(account.getAmount());
49         return accountDAOWrapper.withdrawAmount(accountDetails);
50
51     }
52
53     /**
54      * To-Do Item 1.9: This method should update the account details to credit the
55      * amount to the account balance (add amount to balance) in the database.
56      *
57      * TODO: --Invoke getAccountDetails method of AccountDAOWrapper to get account
58      * details of the given number. --Add the amount to deposit to the balance and
59      * update the account bean. --Invoke depositAmount method of AccountDAOWrapper
60      * to update the account details --Return the details of the updated
61      */
62     public AccountBean depositAmount(AccountBean account) {
63         AccountBean accountDetails = accountDAOWrapper.getAccountDetails(account);
64         accountDetails.setAmount(account.getAmount());
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

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BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

```java
    /**
     * To-Do Item 1.9: This method should update the account details to credit the
     * amount to the account balance (add amount to balance) in the database.
     *
     * TODO: --Invoke getAccountDetails method of AccountDAOWrapper to get account
     * details of the given number. --Add the amount to deposit to the balance and
     * update the account bean. --Invoke depositAmount method of AccountDAOWrapper
     * to update the account details --Return the details of the updated
     */
    public AccountBean depositAmount(AccountBean account) {
        AccountBean accountDetails = accountDAOWrapper.getAccountDetails(account);
        accountDetails.setAmount(account.getAmount());
        return accountDAOWrapper.depositAmount(accountDetails);
    }

    /**
     * To-Do Item 1.10: This method should retrieve account details with respect to
     * the account number.
     *
     * TODO: --Invoke getAccountDetails method of AccountDAOWrapper to get account
     * details and return the same;
     */
    public AccountBean getAccountDetails(AccountBean account) {
        return accountDAOWrapper.getAccountDetails(account);
    }

}
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

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Hibernate: select accountent0_.accountNumber as col_0_0_ from Account accountent0_
```

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    - com.accenture.controller
      - AccountController.java
    - com.accenture.dao
      - AccountDAO.java
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    - com.accenture.entity
    - com.accenture.exceptions
    - com.accenture.lkm.resources
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- SpringMVCRegForm

BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

```
109
110     /**
111      To-Do Item 1.13: This method should update the balance after depositing the amount.
112         TODO:
113         --Map the URL to /depositAmount.html
114         --Retrieve the AccountBean submitted by the view.
115         --Perform validation checks.
116         --If validation fails, populate a ModelAndView object with "deposit" as the logical view to display err
117         --On successful form validation, it should invoke the depositAmount method of AccountService.
118         --Create and populate a ModelAndView object with "report" as the logical view name, add the updated acc
119
120      */
121     @RequestMapping("/depositAmount.html")
122     public ModelAndView depositAmount(@ModelAttribute("account") @Valid AccountBean account, BindingResult bind
123         ModelAndView mView = new ModelAndView();
124         // TO-DO
125         if (bindingResult.hasErrors()) {
126             mView.setViewName("deposit");
127         }else {
128             AccountBean updatedAccount = accountService.depositAmount(account);
129             mView.addObject("account", updatedAccount);
130             mView.addObject("message", "Amount deposits completed successfully");
131             mView.setViewName("report");
132         }
133         return mView;
134     }
135
136
137     @ExceptionHandler(value = InsufficientFundsException.class)
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

Tomcat v8.0 Server at localhost [Apache Tomcat] C:\Program Files\java-1.8.0-openjdk-1.8.0.362\bin\javaw.exe (Oct 9, 2024, 5:32:04 PM)

```
INFO: Looking for @ControllerAdvice: WebApplicationContext for namespace 'bank-servlet': startup date [Wed Oct 09 17:
Oct 09, 2024 5:33:21 PM org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter initContro
INFO: Looking for @ControllerAdvice: WebApplicationContext for namespace 'bank-servlet': startup date [Wed Oct 09 17:
Oct 09, 2024 5:33:21 PM org.springframework.web.servlet.FrameworkServlet initServletBean
INFO: FrameworkServlet 'bank': initialization completed in 910 ms
Hibernate: select accountent0_.accountNumber as col_0_0_ from Account accountent0_
Hibernate: select accountent0_.accountNumber as col_0_0_ from Account accountent0_
```

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New folder - Practice/src/com/accenture/controller/AccountControl

172.31.74.40

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- MicoServicesDemo
- Practice
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      - AccountController.java
    - com.accenture.dao
      - AccountDAO.java
      - AccountDAOWrapper.java
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BTM | AccountController.java | AccountService.java | AccountDAO.java | AccountDAOWrapper.ja... | AccountServiceImpl.j... | AccountBean.java

```
71              mView.setViewName("withdraw");
72          }
73          return mView;
74      }
75
76
77      /**
78       To-Do Item 1.12: This method should update the balance after withdrawing the amount.
79          TODO:
80          --Map the URL to /withdrawAmount.html
81          --Retrieve the AccountBean submitted by the view.
82          --It should invoke the withdrawAmount method of AccountService.
83          --Create and populate a ModelAndView object with "report" as the logical view name, add the updated acc
84
85       */
86      @RequestMapping("/withdrawAmount.html")
87      public ModelAndView withdrawAmount(@ModelAttribute("account2") AccountBean account) throws InsufficientFund
88          ModelAndView mView = new ModelAndView();
89          // TO-DO
90          AccountBean updatedAccount = accountService.withdrawAmount(account);
91          mView.addObject("account",updatedAccount);
92          mView.addObject("message", "Amount withdraw completed successfully");
93          mView.setViewName("report");
94          return mView;
95      }
96
97
98      @RequestMapping("/deposit.html")
```

Problems | Javadoc | Declaration | Git Repositories | Console | Git Staging

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