

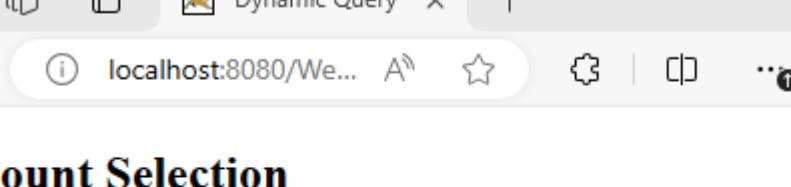
Dynamic Web Development in JSP

Spring 2024

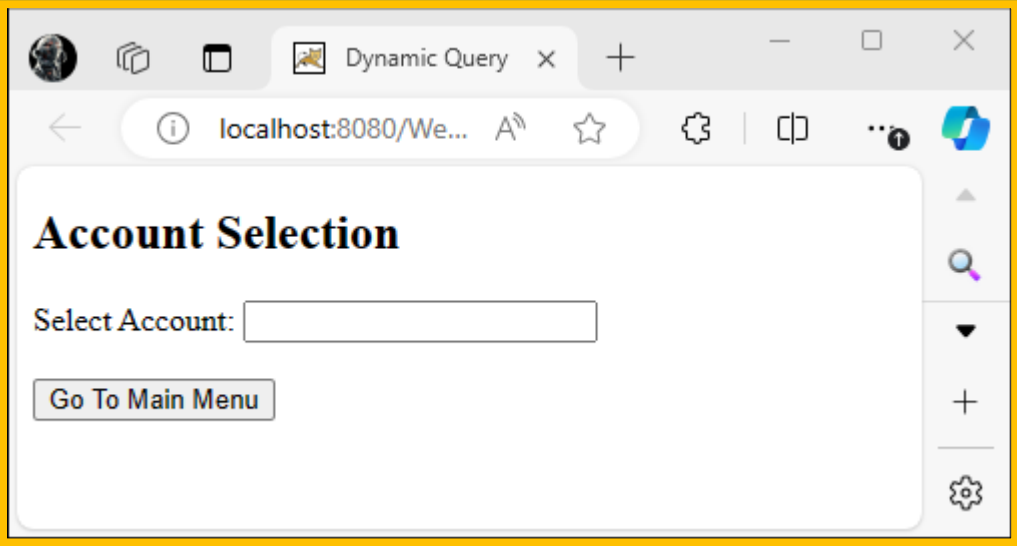


Assignment 4: Simple Web Application Development

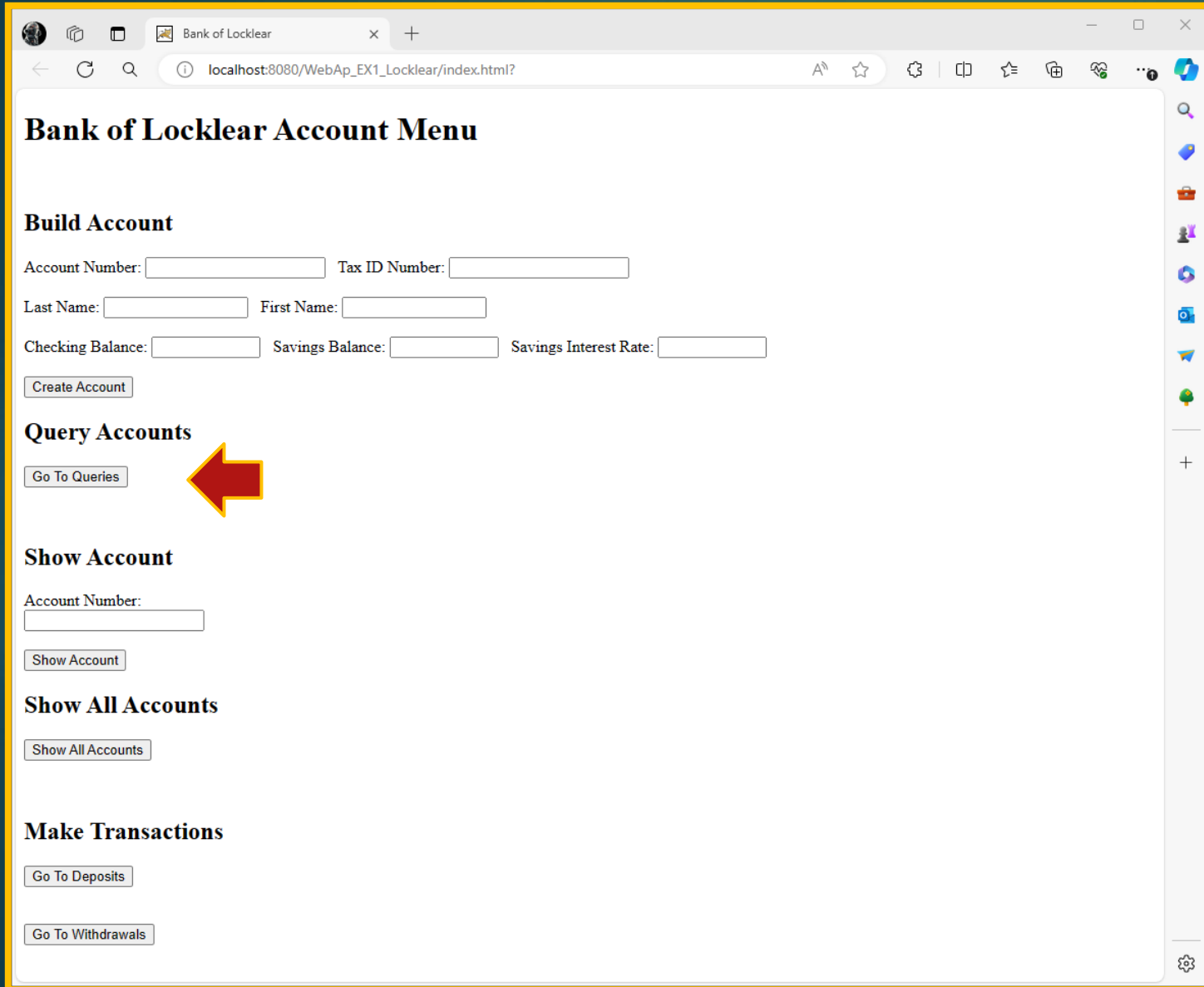
Professor HG Locklear



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/We...'. The page title is 'Account Selection'. Below the title, there is a text input field labeled 'Select Account:'. At the bottom of the page, there is a button labeled 'Go To Main Menu'.



index.html



The screenshot shows a web browser window with the title 'Bank of Locklear' and the URL 'localhost:8080/WebAp_EX1_Locklear/index.html?'. The page content is as follows:

Bank of Locklear Account Menu

Build Account

Account Number: Tax ID Number:

Last Name: First Name:

Checking Balance: Savings Balance: Savings Interest Rate:

Query Accounts

Show Account

Account Number:

Show All Accounts

Make Transactions

A large red arrow points to the 'Go To Queries' button.

Additional Methods (BankAccount)

Method	Input	Processing
toHTML_Summary	None	Returns a HTML-formatted String representation of the BankAccount object formatted as shown below.

Bank Account

Last Name: Baker

First Name: Betty

Account Number: B201

Tax ID Number: T201

Add the constructor shown below to your BankAccount class.

```
public BankAccount(String accountNumber, String lastName, String firstName, String taxIDNumber) {  
    this.accountNumber = accountNumber;  
    this.lastName = lastName;  
    this.firstName = firstName;  
    this.taxIDNumber = taxIDNumber;  
}
```

Additional Servlets

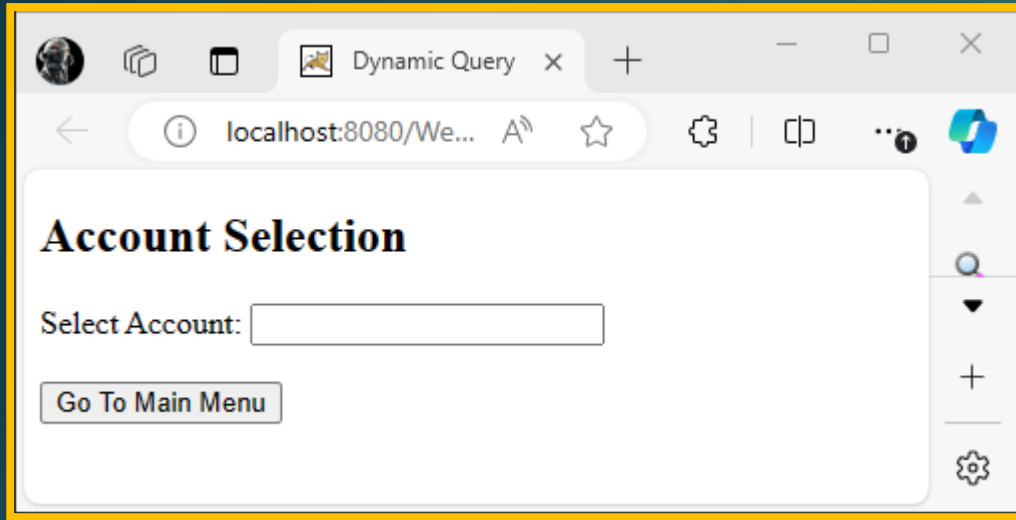
Servlet	Webpage	Processing
DynamicQuery	Query.html	<u>Returns</u> a HTML-formatted String representation of all BankAccount objects that meet the specified criteria

Database Update

```
MySQL 8.0 Command Line Cli x + v - □ x
mysql> select * from account_registry;
+-----+-----+-----+-----+
| AccountNumber | LastName | FirstName | TaxIDNumber |
+-----+-----+-----+-----+
| A101          | Locklear | Gene      | T101        |
| A102          | Anderson | Andy      | T102        |
| B201          | Baker    | Betty     | T201        |
| B202          | Bevers   | Bart      | T202        |
| C301          | Carly    | Cindy     | T301        |
| C302          | Cameron  | Carl      | T302        |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Update your database to include the accounts shown.

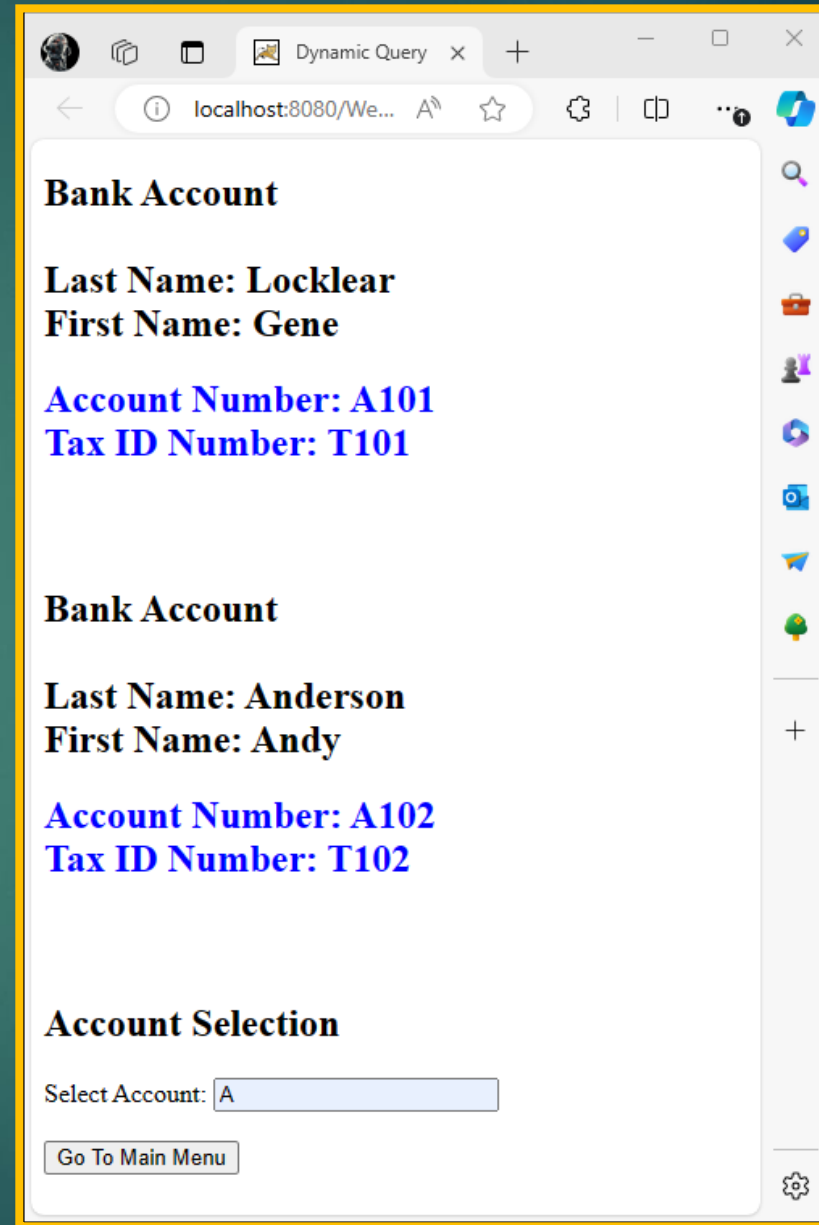
Dynamic Query



A screenshot of a web browser window titled 'Dynamic Query'. The address bar shows 'localhost:8080/We...'. The page content includes a heading 'Account Selection', a text input field labeled 'Select Account:', and a button labeled 'Go To Main Menu'.

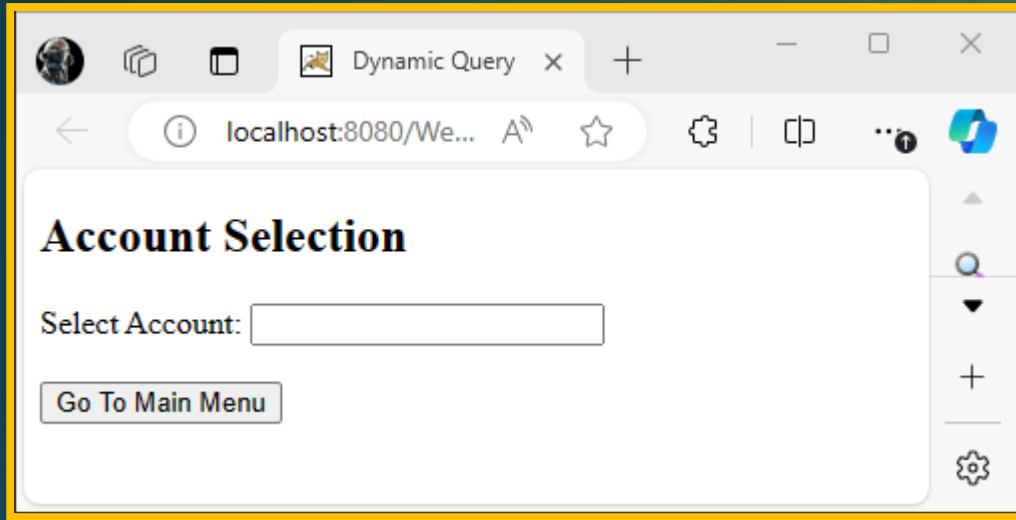


Upon entering the first letter of the Account Number the webpage displays **All Accounts whose Account Number starts with that letter in the format shown.**



A screenshot of the same web browser window after a dynamic query. The page displays two sets of account information. The first set, under the heading 'Bank Account', shows 'Last Name: Locklear', 'First Name: Gene', 'Account Number: A101', and 'Tax ID Number: T101'. The second set, also under 'Bank Account', shows 'Last Name: Anderson', 'First Name: Andy', 'Account Number: A102', and 'Tax ID Number: T102'. At the bottom, the 'Account Selection' section shows the 'Select Account:' input field with the letter 'A' entered. The 'Go To Main Menu' button remains at the bottom.

Dynamic Query



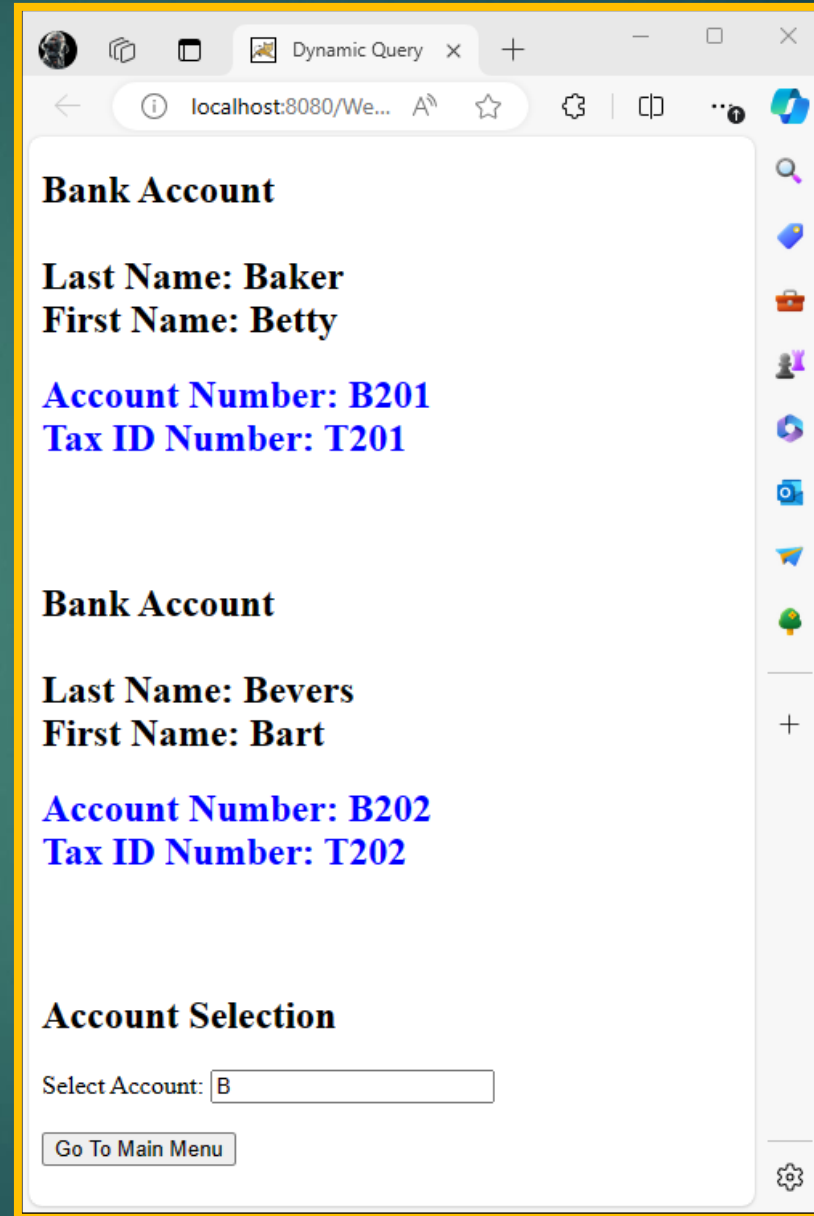
Account Selection

Select Account:

[Go To Main Menu](#)



Upon entering the first letter of the Account Number the webpage displays **All Accounts whose Account Number starts with that letter in the format shown.**



Bank Account

Last Name: Baker
First Name: Betty

Account Number: B201
Tax ID Number: T201

Bank Account

Last Name: Bevers
First Name: Bart

Account Number: B202
Tax ID Number: T202

Account Selection

Select Account:

[Go To Main Menu](#)