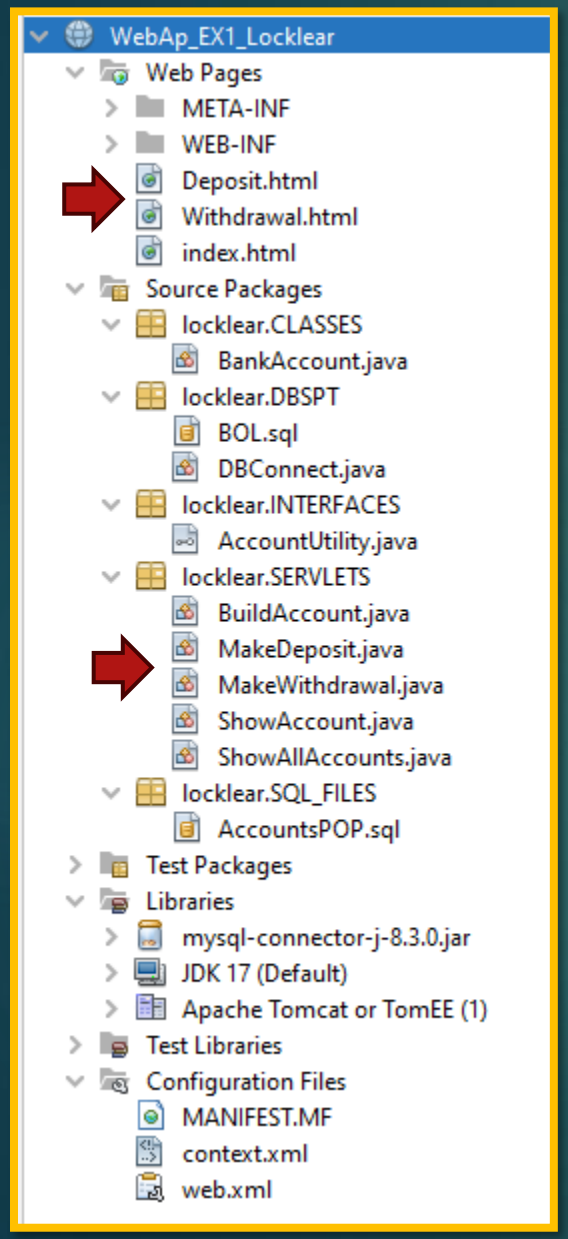
Dynamic Web Development in JSP
Spring 2024

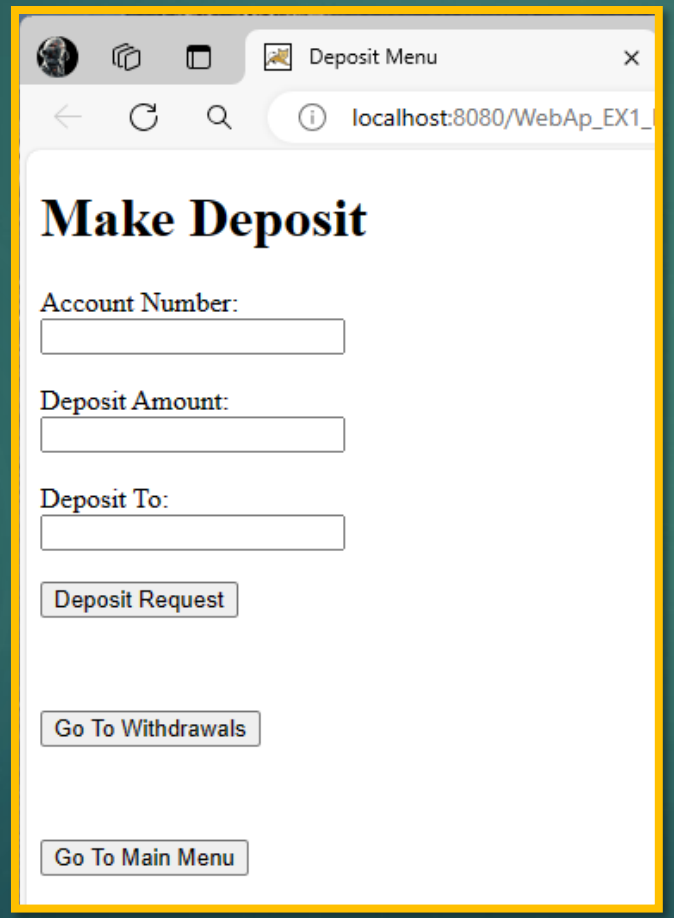
Assignment 3: Simple Web Application Development

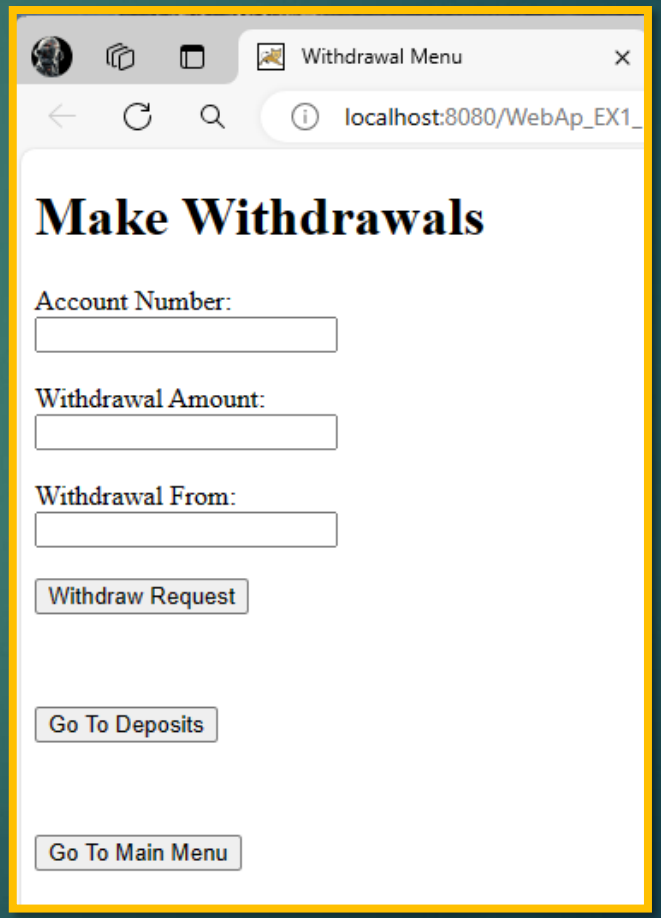
Professor HG Locklear

Program Structure



We will modify the current application to include additional functionality





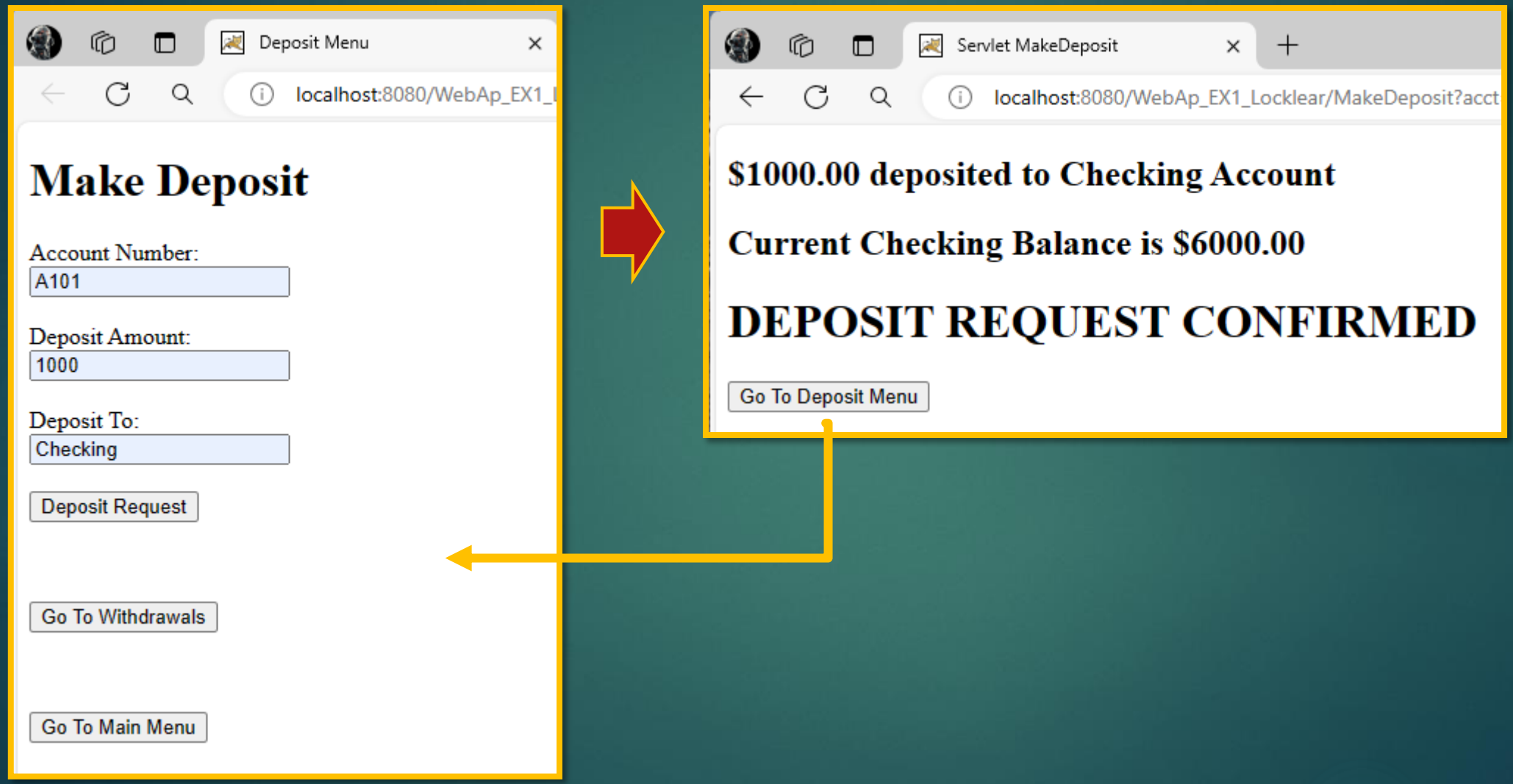
Additional Methods (BankAccount)

Method	Input	Processing
depositToChecking	double d	Adds **d** to the **checkingBalance** of the BankAccount object updates the **maxCheckingWithdrawal** amount and returns true
depositToSavings	double d	Adds **d** to the **savingsBalance** of the BankAccount object updates the **maxSavingsWithdrawa**l amount and returns true
depositChecking	double amount	Calls the **deposiToChecking** method, updates the database and the BankAccount object. Returns a HTML formatted string. ***See Slide 5***
depositSavings	double amount	Calls the **depositToSavings** method, updates the database and the BankAccount object. Returns a HTML formatted string. ***See Slide 5***
WithdrawFromChecking	double amount	Verifies withdrawal conditions and subtracts the specified amount from the **checkingBalance** of the BankAccount object. Updates the database and the **maxCheckingWithdrawal** amount. Returns a HTML formatted String. ***See Slide 6 and 7***
WithdrawFromSavings	double amount	Verifies withdrawal conditions and subtracts the specified amount from the **savingsBalance** of the BankAccount object. Updates the database and the **maxSavingWithdrawal** amount. Returns a HTML formatted String. ***See Slide 6 and 7***

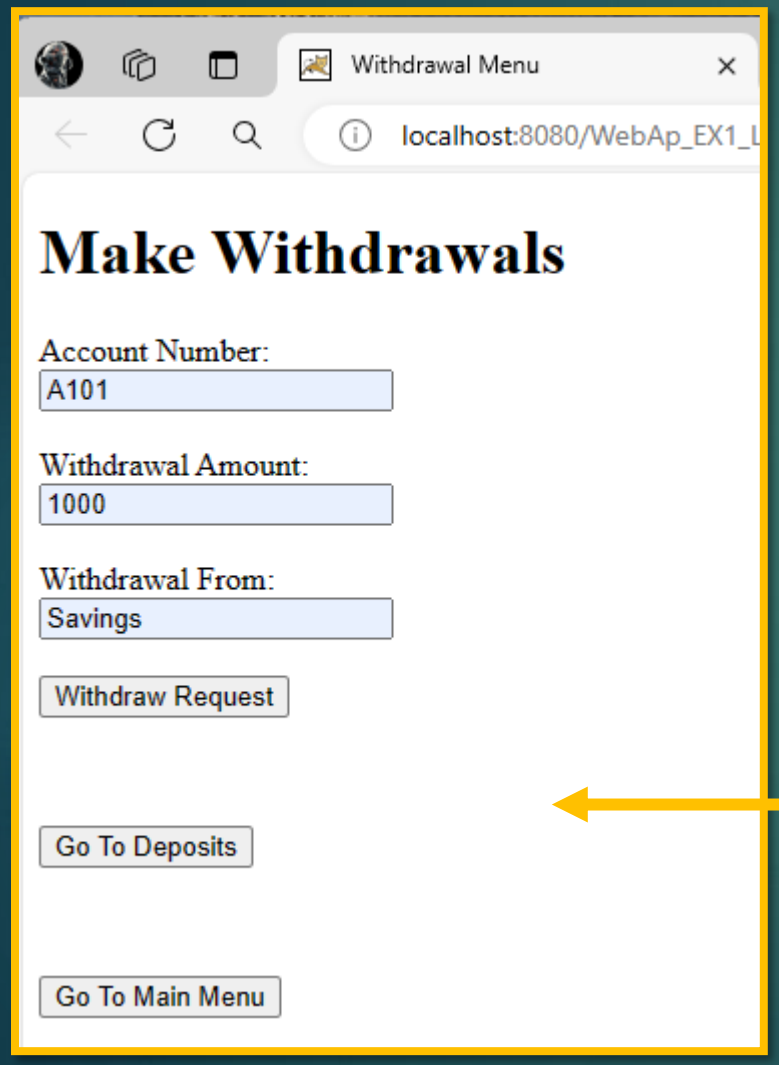
Additional Servlets

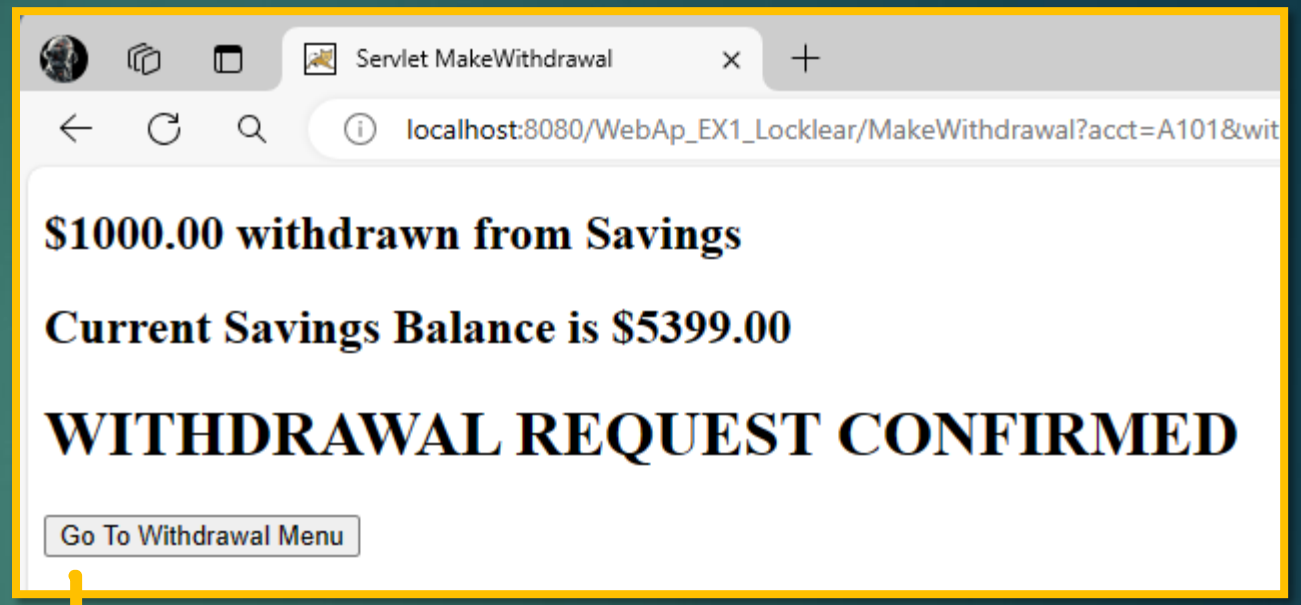
Servlet	Webpage	Processing
MakeDeposit	Deposit.html	• Receives the BankAccount object **accountNumber**, a **deposit amount**, and the **accountType** from the webpage. • Adds the deposit amount to the specified account and updates the appropriate database table and the specified BankAccount object • ***See Slide 5 for output***
MakeWithdrawal	Withdrawal.html	• Receives the BankAccount object **accountNumber**, a **withdrawal amount** and the **accountType** from the webpage. • Checks that the amount can be withdrawn by ensuring that it does not exceed the amount available and the maximum withdrawal amount for the account and fails if those conditions are not met. • If conditions are met, subtracts the withdrawal amount from the specified account and updates the appropriate database table and the specified BankAccount object • ***See Slides 6 and 7 for output***

Make Deposit

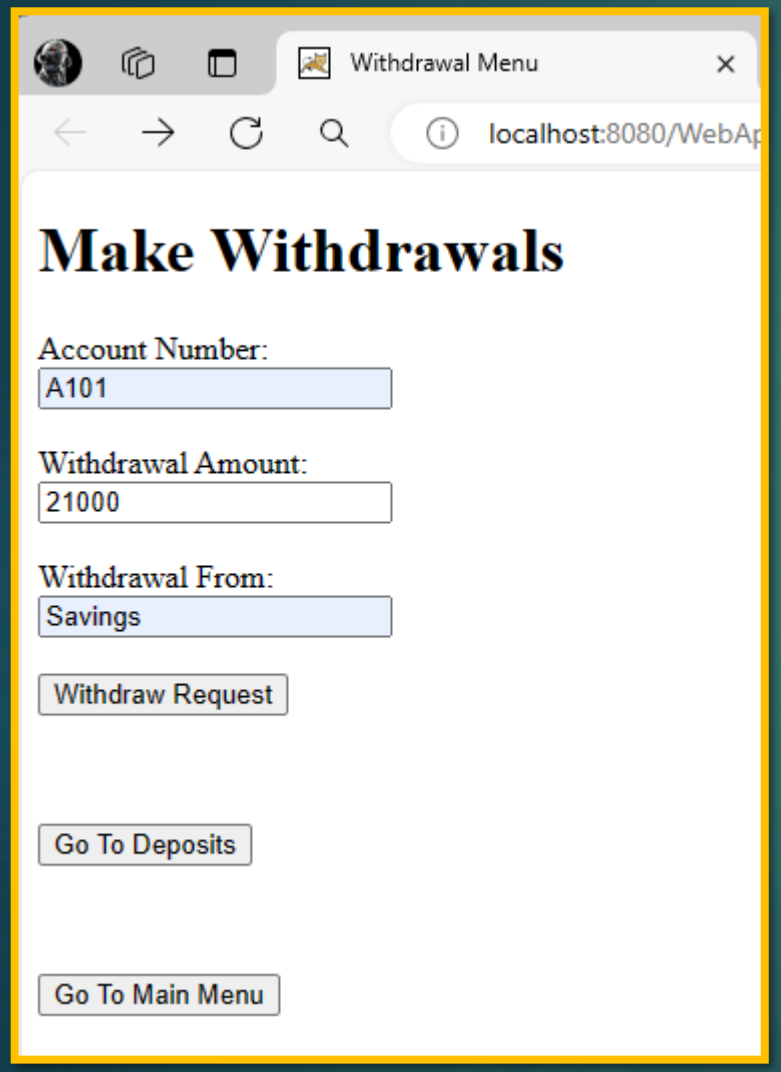


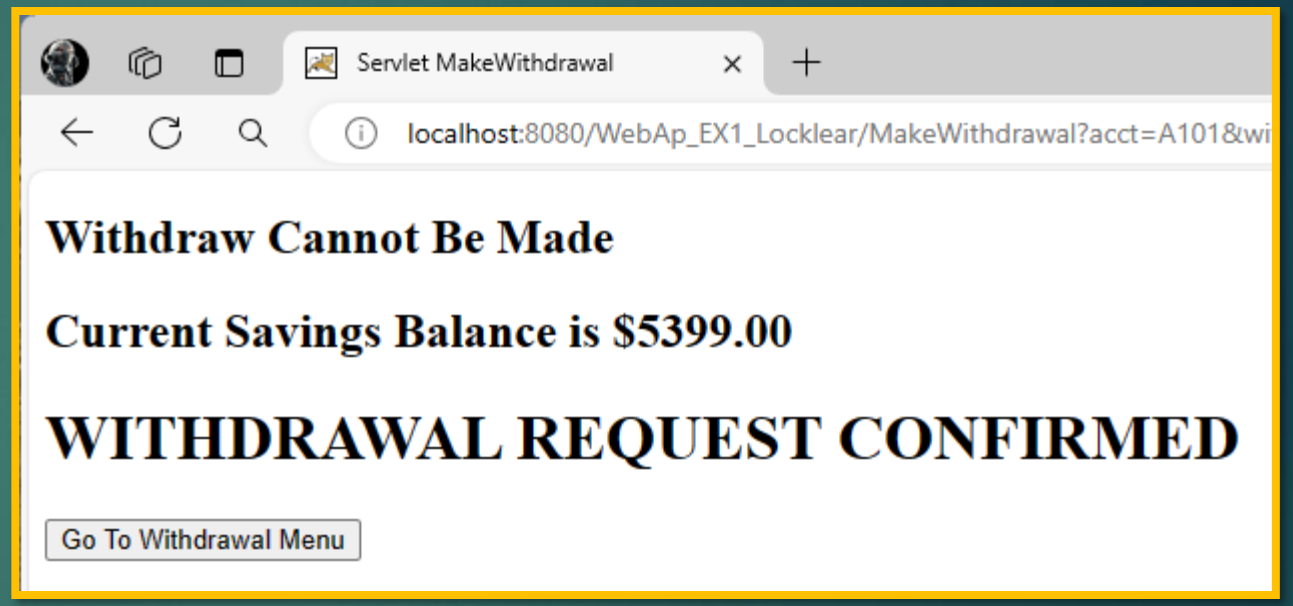
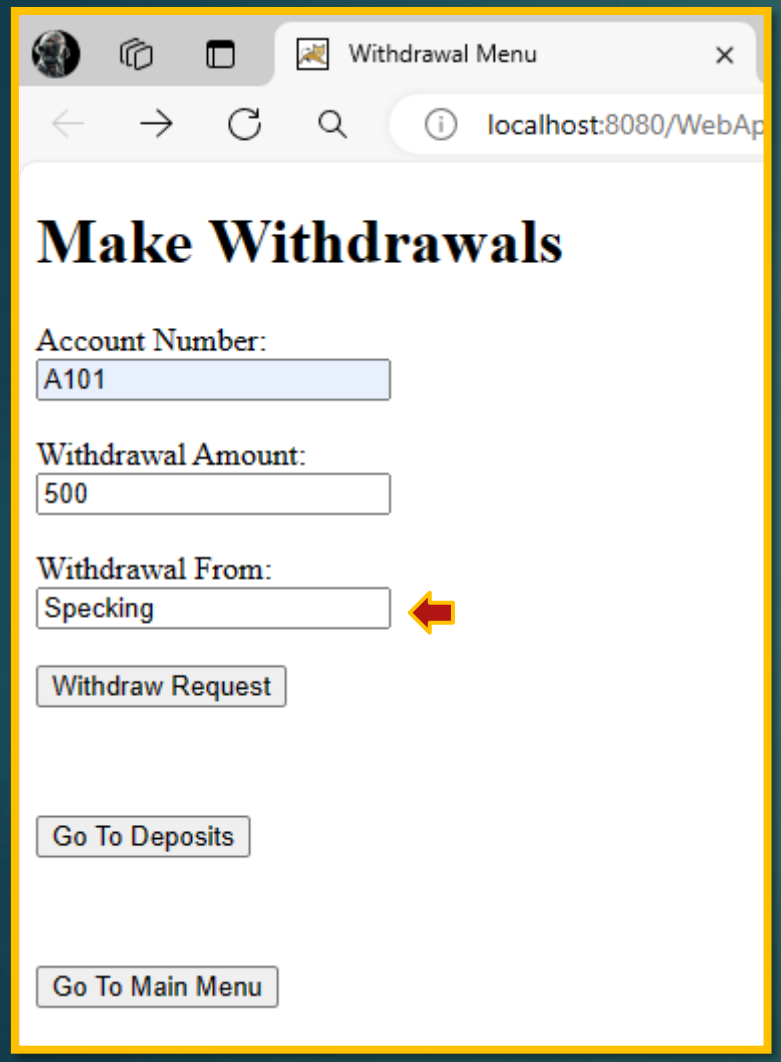
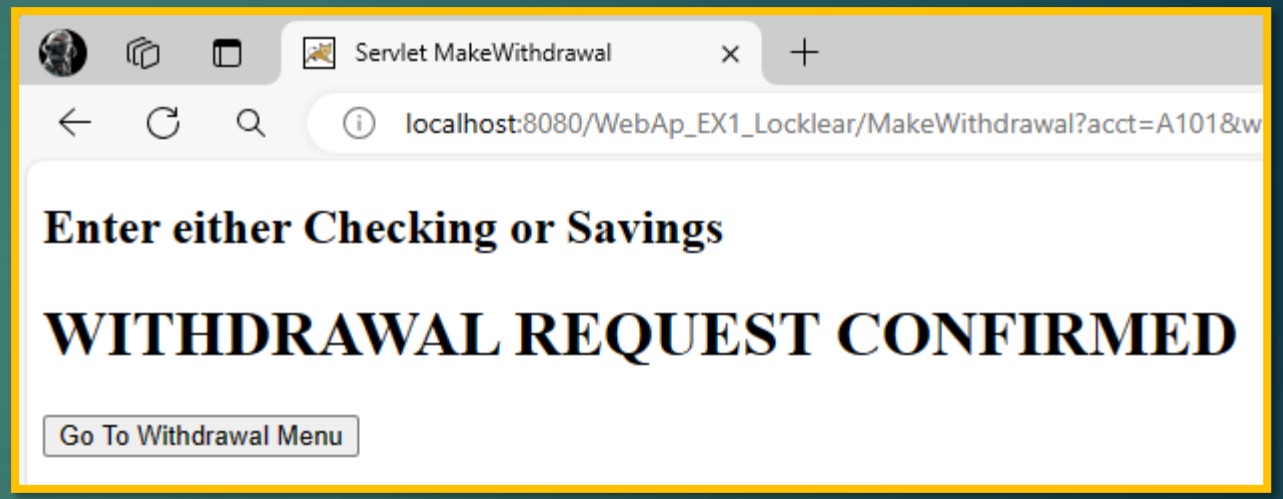
Make Withdrawal





Make Withdrawal





Make Deposit/Withdrawal