Day 14

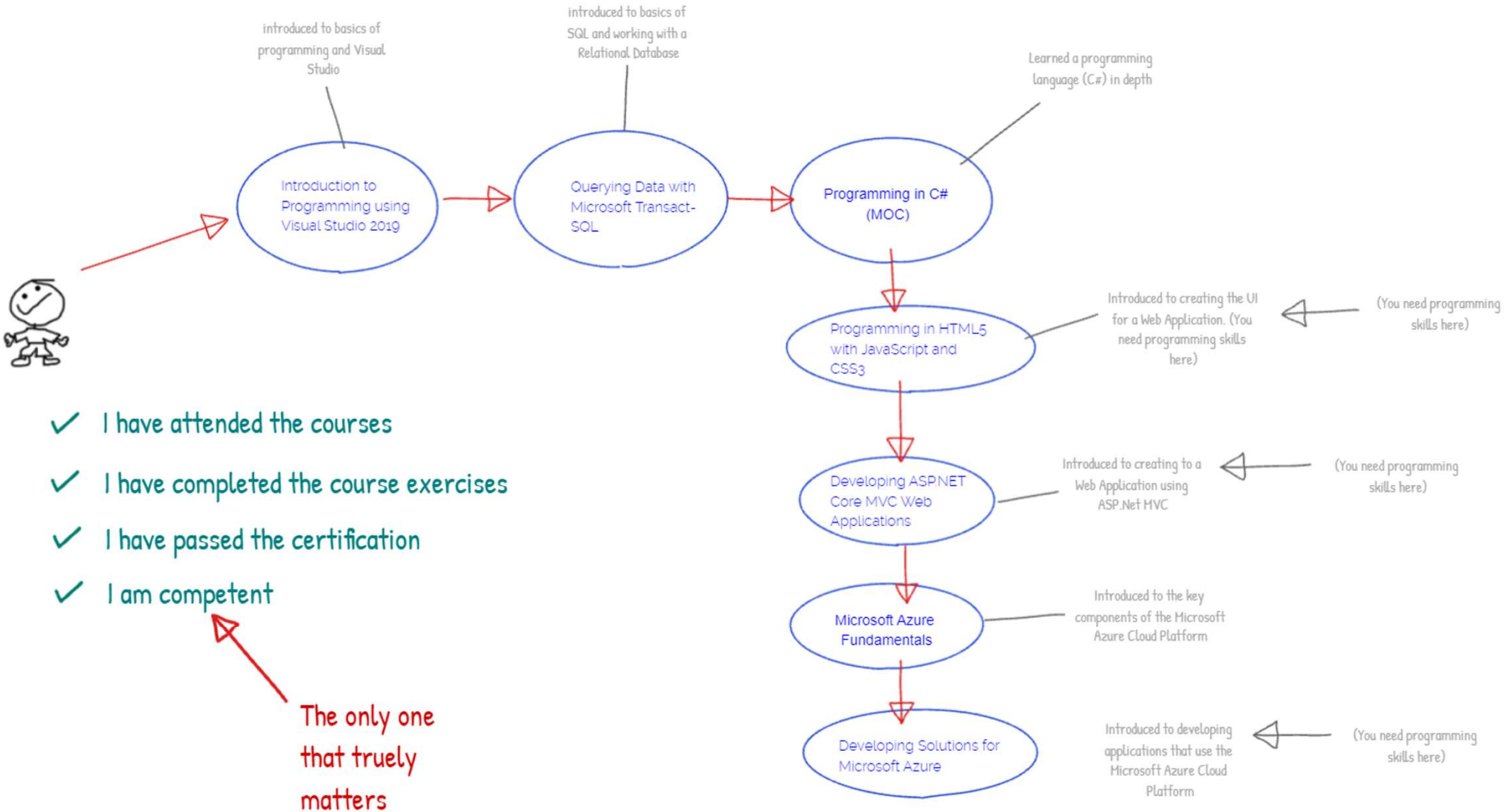
The one link you need to remember

https://ddls.to/20483

Ready?

Do this every day BEFORE the class starts (takes about 15 minutes) (http://ddls.to/everyday)

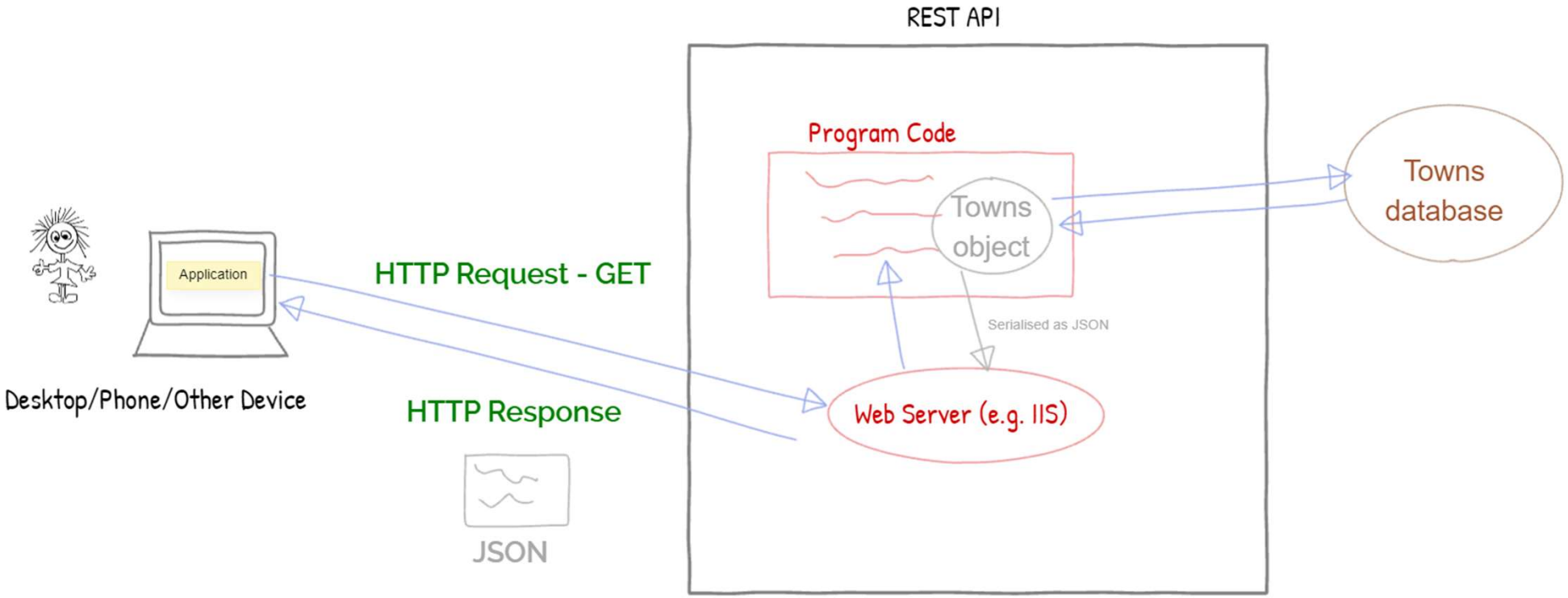
1. Launch Lab01.
2. Login to Lab01 as **Admin**.
3. While in the Lab01 environment,
   i. run **cmd.exe** from the Windows Start button.
   ii. Run the command **git clone --depth 1** https://github.com/Mark-AIICT/CAD-2.git **C:\Users\Admin\Desktop\MarksFiles**
   iii. Navigate to **C:\Users\Admin\Desktop\MarksFiles\setups**, then right-mouse click **bootstrap.cmd** and **run as administrator**
   iv. While it's running, Sign in to Visual Studio on the Lab Environment. You can use any Microsoft account.
   v. When the script end it reboots the Virtual Machine. That's necessary.
   vi. Save the lab. (the save link is at the top right of the screen in the dropdown menu)


introduced to basics of programming and Visual Studio
introduced to basics of SQL and working with a Relational Database
Learned a programming language (C#) in depth
Introduction to Programming using Visual Studio 2019
Querying Data with Microsoft Transact-SQL
Programming in C# (MOC)
Programming in HTML5 with JavaScript and CSS3
Introduced to creating the UI for a Web Application. (You need programming skills here)
(You need programming skills here)
Developing ASP.NET Core MVC Web Applications
Introduced to creating to a Web Application using ASP.Net MVC
(You need programming skills here)
Microsoft Azure Fundamentals
Introduced to the key components of the Microsoft Azure Cloud Platform
Developing Solutions for Microsoft Azure
Introduced to developing applications that use the Microsoft Azure Cloud Platform
(You need programming skills here)
✓ I have attended the courses
✓ I have completed the course exercises
✓ I have passed the certification
✓ I am competent
The only one that truely matters

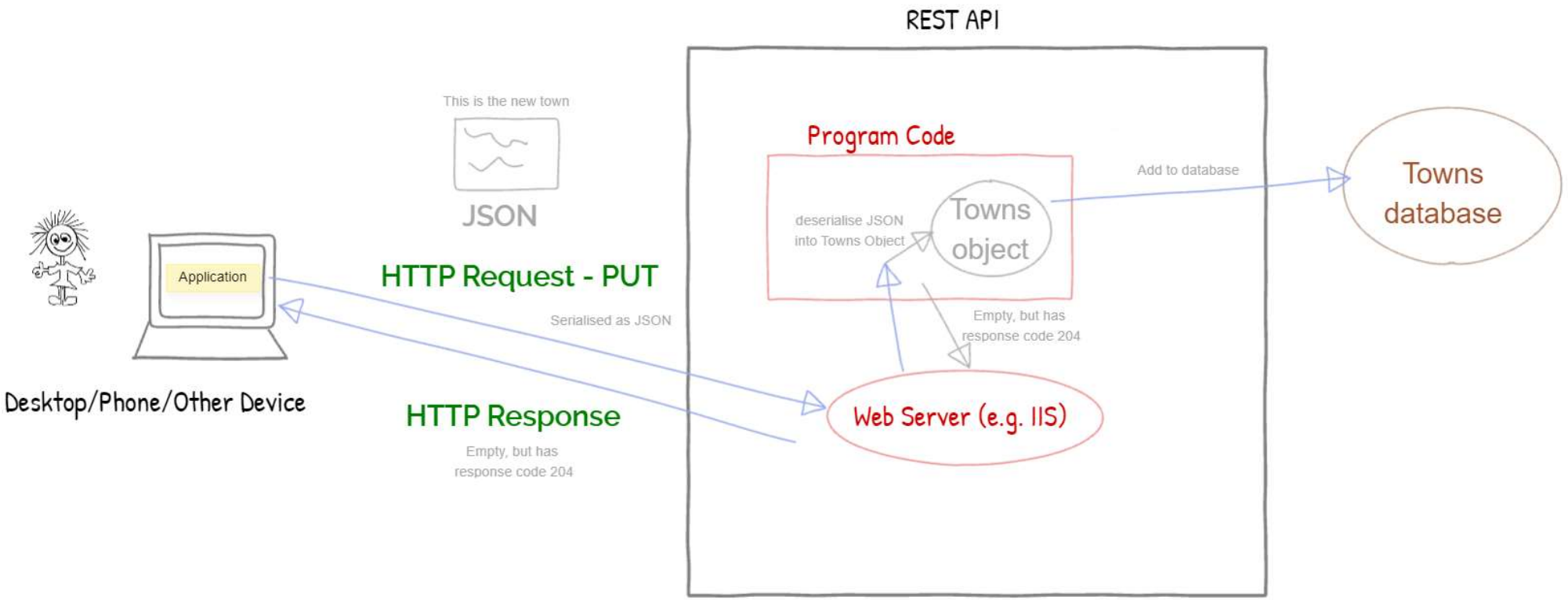
Key Recollections from earlier

Class
Inheritance
Method
Property
Field
Public
Private
Protected
Internal
Interface
Delegate
Event
Lambda
Task

What is REST?


REST API
Program Code
Towns object
Towns database
Serialised as JSON
Application
HTTP Request - GET
HTTP Response
Web Server (e.g. IIS)
Desktop/Phone/Other Device
JSON

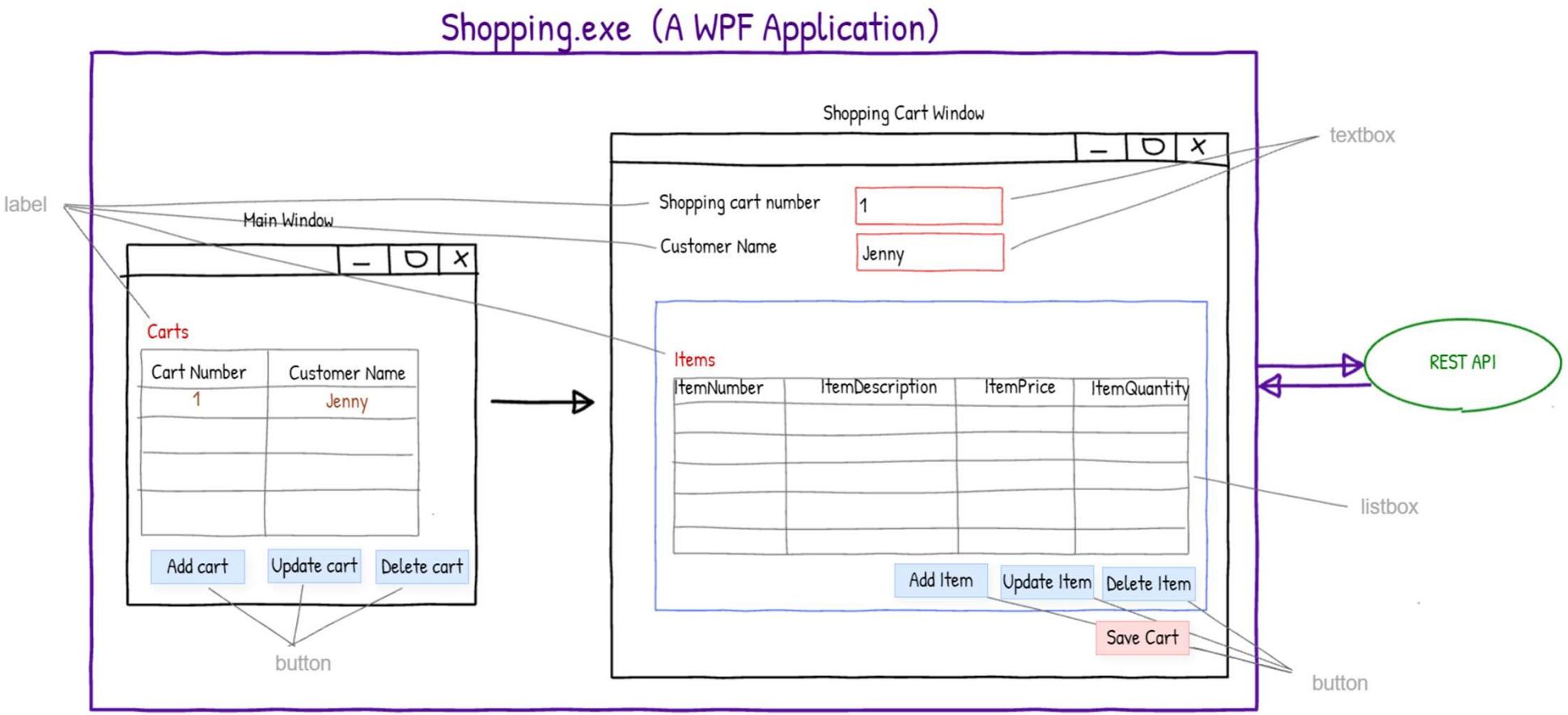
REST PUT Example

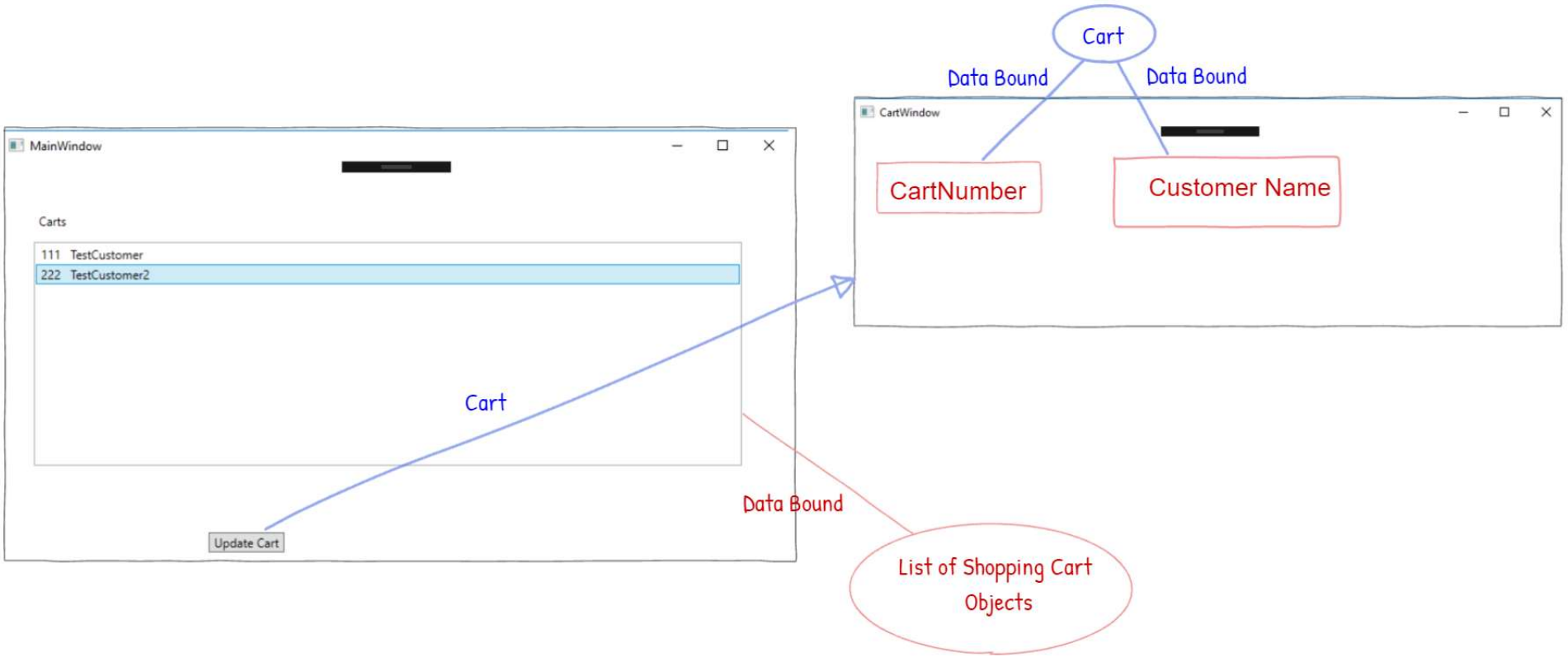


Yesterday

- We completed the code that,
  - Adds a new cart
  - Deletes a cart
  - Updates a cart
  - Displays a list of carts in a WPF Window

Exercise


Shopping.exe (A WPF Application)
Shopping Cart Window
textbox
label
Main Window
Shopping cart number
1
Customer Name
Jenny
Carts
Cart Number
Customer Name
1
Jenny
Items
ItemNumber
ItemDescription
ItemPrice
ItemQuantity
REST API
Add cart
Update cart
Delete cart
Add Item
Update Item
Delete Item
Save Cart
listbox
button
button


Cart
Data Bound
Data Bound
CartWindow
CartNumber
Customer Name
MainWindow
Carts
111 TestCustomer
222 TestCustomer2
Cart
Data Bound
Update Cart
List of Shopping Cart Objects

- To do on your lab01 VM
  - Set git global config

    git config --global user.name “fred”
    git config --global user.email fred@work.com

  - Clone the exercises repo

Course Outline

- Module 1: Review of Visual C# Syntax
- Module 2: Creating Methods, Handling Exceptions, and Monitoring Applications
- Module 3: Basic Types and Constructs of Visual C#
- Module 4: Creating Classes and Implementing Type-Safe Collections
- Module 5: Creating a Class Hierarchy by Using Inheritance
- Module 6: Reading and Writing Local Data
- Module 7: Accessing a Database
- Module 8: Accessing Remote Data (I'm replacing this with a better module)
- Module 9: Designing the User Interface for a Graphical Application
- Module 10: Improving Application Performance and Responsiveness
- GIT
- REST + WPF + Sharpen C# Skills
- Config Files
- .Net Framework Vs .Net Core Vs .net standard Vs .Net
- VSCode Vs Visual Studio
- Nuget
- Module 11: Integrating with Unmanaged Code?
- Module 12: Creating Reusable Types and Assemblies?
- Module 13: Encrypting and Decrypting Data?