

# Web Sockets - Scala

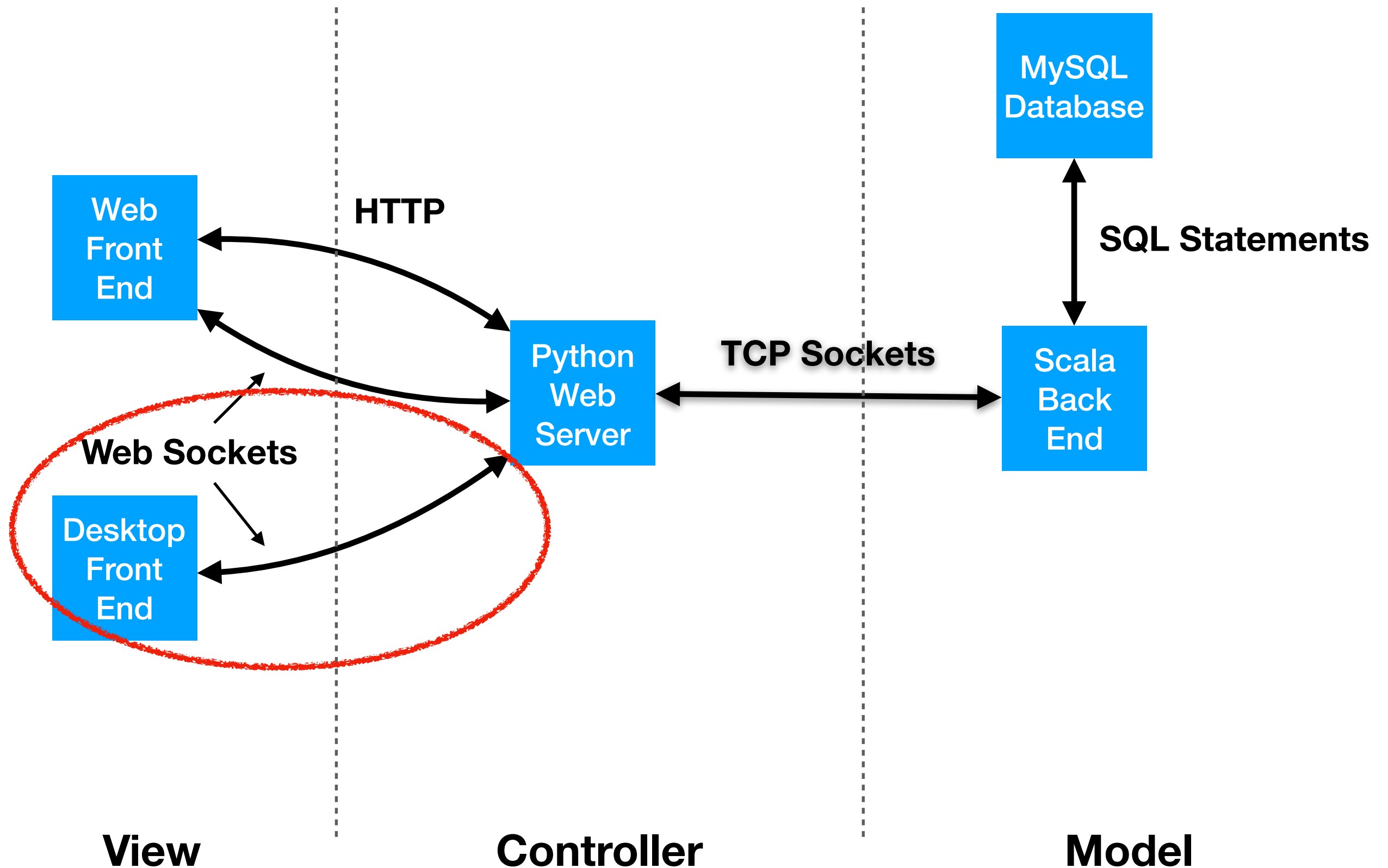
# Lecture Question

## **Task: Practice with TCP/Web socket communication**

- Free grader
- Lab activity next week
  - You'll be given programs written in two different languages
  - Your task will be to write networking code to communicate between the two programs

\* This question will be open until midnight

# CSE116 - End Game



# Web Socket Client - Scala

- We'll use the Scala version Socket.IO Library
  - Same library we used for Python/JavaScript
- Add to pom.xml
- Use maven to download

# Web Socket Client - Scala

- Connect to the server by url
  - Must enter the full url
  - JavaScript knew where the server was by the HTTP request for index.html
  - Scala has not yet connected with Python

```
var socket: Socket = IO.socket("http://localhost:8080/")  
socket.connect()
```

# Web Socket Client - Scala

- Send messages with emit

```
var socket: Socket = IO.socket("http://localhost:8080/")  
socket.connect()  
  
socket.emit("register", "myUsername")
```

# Web Socket Client - Scala

- Handle messages with on
  - Specify the message type
  - Provide a handler
- Handler must be an object implementing Emitter.Listener

```
class HandleMessagesFromPython() extends Emitter.Listener {  
  override def call(objects: Object*): Unit = {  
    val message = objects.apply(0).toString  
    // do something with message  
  }  
}
```

```
var socket: Socket = IO.socket("http://localhost:8080/")  
  
socket.on("message", new HandleMessagesFromPython)  
  
socket.connect()
```

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