

Ntier Application Architecture and Components

Friday, November 6, 2020 12:27 PM

There are two main forms of Interactions

1 User (Human) Interaction with system (B2C)

- Requires a human oriented output
 - Colors
 - Images
 - Tables
 - Starts
- Can be created using
 - HTML,CSS,Images etc for browser
 - Mobile Application design using Mobile development kit
 - This kit may be in any programming language like
 - Java (Android)
 - Dart (Cross Platform)
 - Objective C (Apple)
 - Swift (Apple)

2. Interaction between two computer system (business)

a. Use Cases

- i. Interaction between two different business
 - 1) Ecommerce Website and Payment Gateways
 - 2) BookMyShow and PVR
 - 3) MakeMyTrip and AirIndia
- ii. Interaction between client and server application
 - 1) A mobile app displaying data received from the server

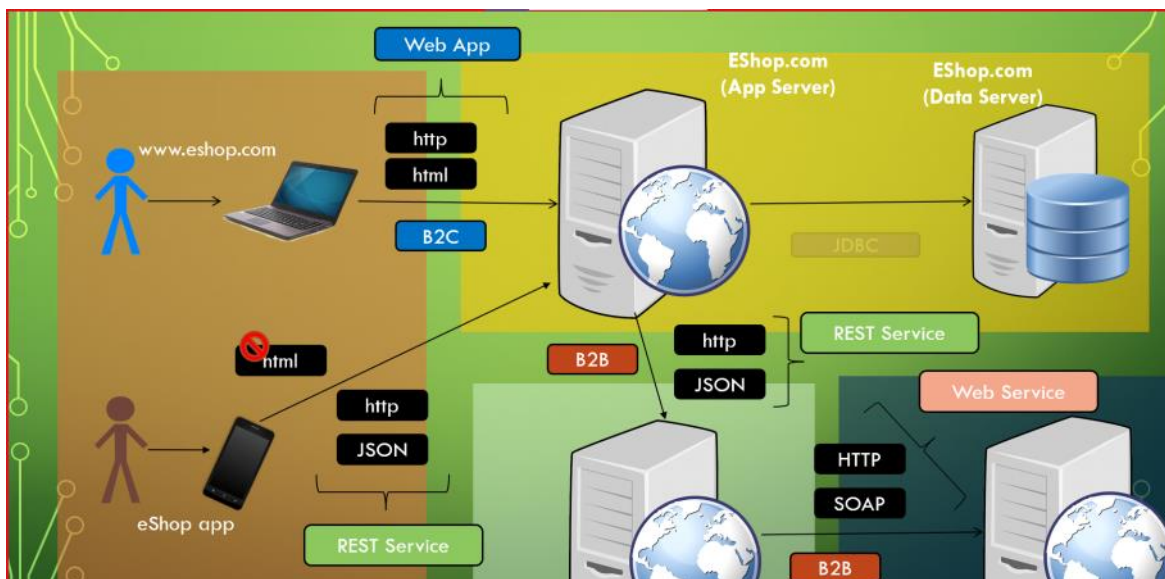
b. Data Requirement

- We need data that is
 - 1) Fast to search
 - 2) Small to transfer
 - 3) Easy to manipulate

c. Popular Format

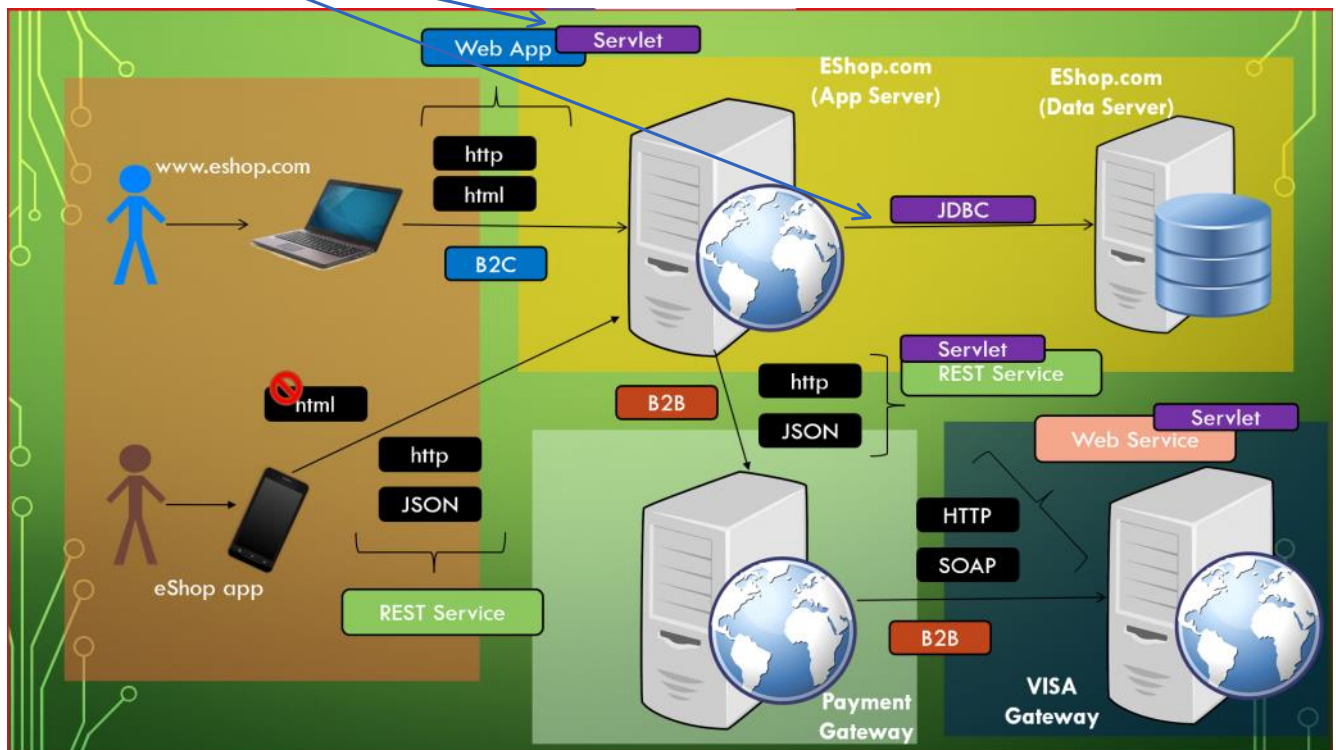
- JSON → REST Service (MORE PREFERRED TODAY)
- XML → SOAP Service

Broad Abstract Architecture

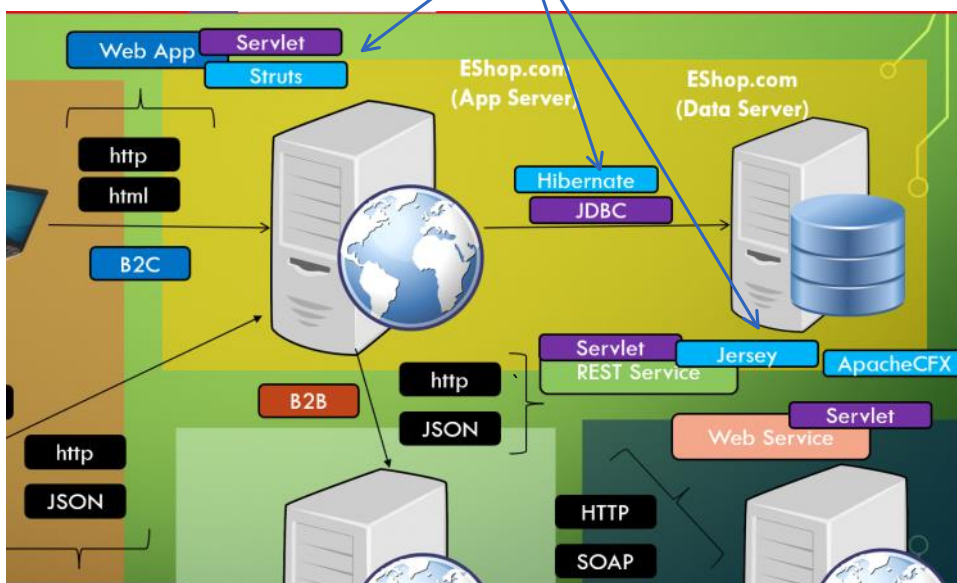




Standard Java Technology Stack (Marked in Purple Boxes)



Multi-tier Architecture with Open Source Frameworks





Where Spring Fits In?

- Everywhere

