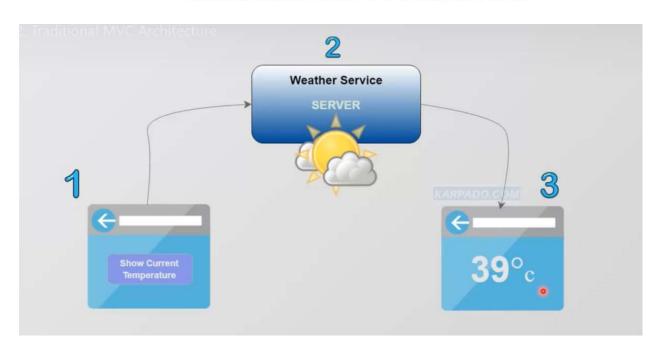
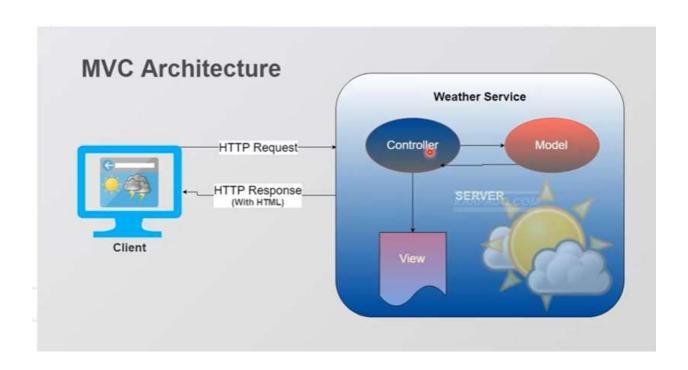
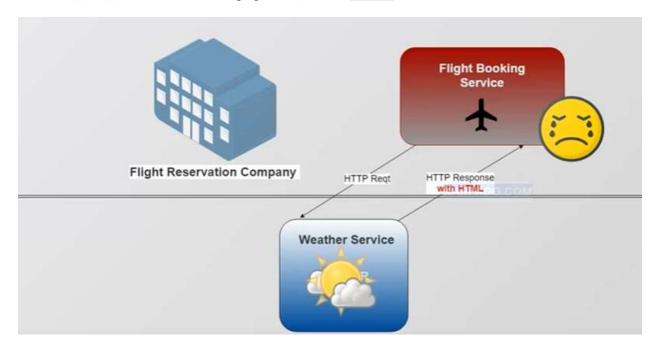


Monolithic MVC Architecture





Challenges with Monolithic Applications







KARPADA COM

What if there aren't enough resources to handle high traffic?

What if server runs out of disk space?

What if there is a bug in the app?



Single Page Applications (SPA)

SPA is an application, that doesn't need a page reload when the user is interacting with the application/website.

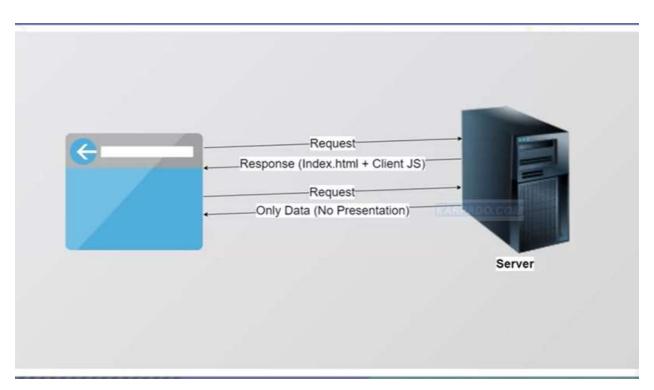


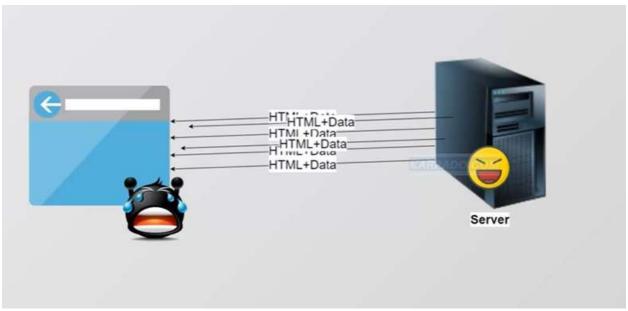


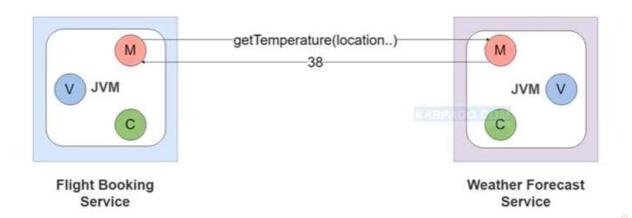




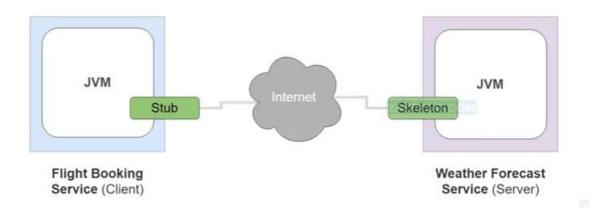


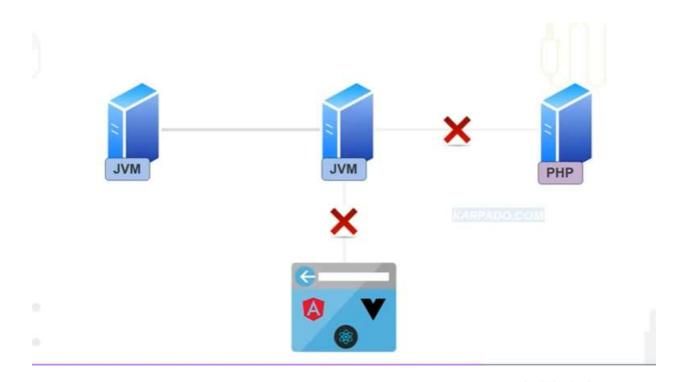


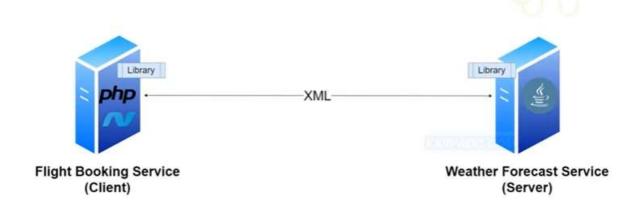




Remote Method Invocation (RMI)







SOAP Message Format

Spring-WS

Exposing Weather Forecast Service

- · Create XSD File
- Use JAXB to create Domain Objects using XSD File
- Create an Endpoint and send response using Domain Objects
- Spring-WS will create and expose WSDL (Accessible over internet)

Consuming Weather Forecast Service

- Use JAXB to create Java classes using WSDL file
- Use request/response domain classes to send the request and receive response

Advantages

- Interoperability SOAP can be implemented in any language and can be executed in any platform
- · SOAP uses HTTP protocol and hence no issue with firewall
- Works with other protocols like FTP, SMTP, TCP
- Compared to RPC, SOAP works better with Single Page
 Applications and Distributed systems

RESTful Webservices

A service which is built on the REST architecture is called a RESTful webservice

RESTful WebServices

Resource

In RESTful webservices, anything that you can manipulate with a URL is a Resource. Ex: A document, A row in a database

RESTful Methods

RESTful webservices relies on HTTP methods to manipulate a resource on the server

- GET To retrieve a resource from the server
- POST To create a resource on the server
- PUT To change the state or to update a resource
- DELETE To remove or delete a resource from the server