

## 4 Web Services client/server architecture

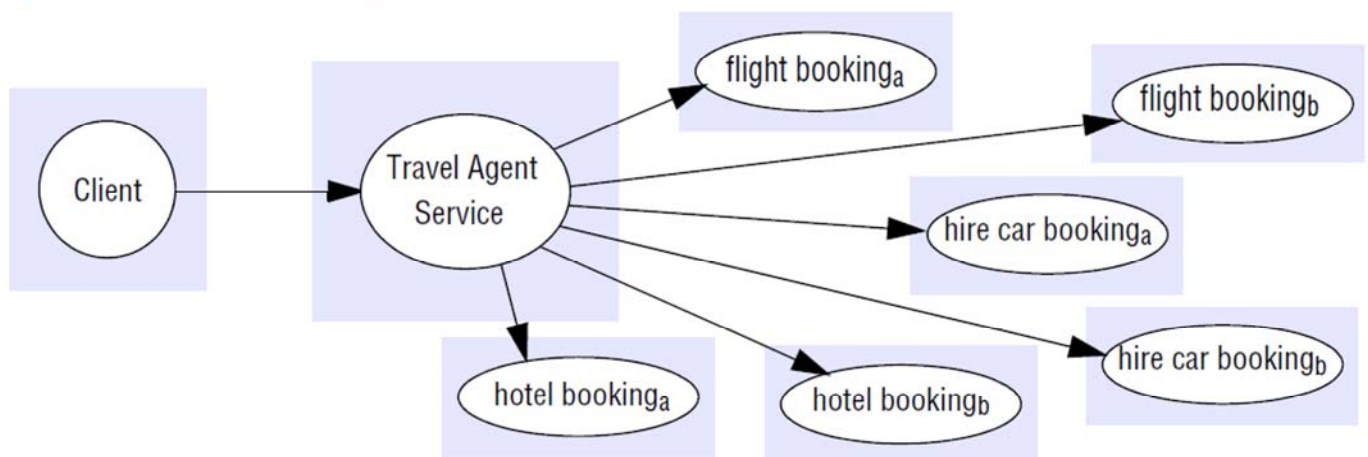
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Explain the ideas behind the Web Services client/server architecture. Describe some implementation details and how it works. [Coulouris et al. chapter 9]

- What the protocol and data look like

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- Web service = a collection of operations that can be used by a client over the Internet
- Provides a service description: interface def and other info
- They process SOAP messages or use a REST approach
- Use either a synchronous request-reply pattern or async messages
  - o Async: user is notified when operation completes
- Designed to be independent of programming languages, to facilitate cooperation
- Loose coupling: to minimize dependencies between services, rely rather on interfaces and standard protocols



- doesn't matter what language it was written in
- WSDL is a recipe of how the service can be consumed
- Are referred to via an URI or URL
- Can run continuously or is activated on-demand
- REST: <https://jsonplaceholder.typicode.com/>