Introduction to RESTful Webservice

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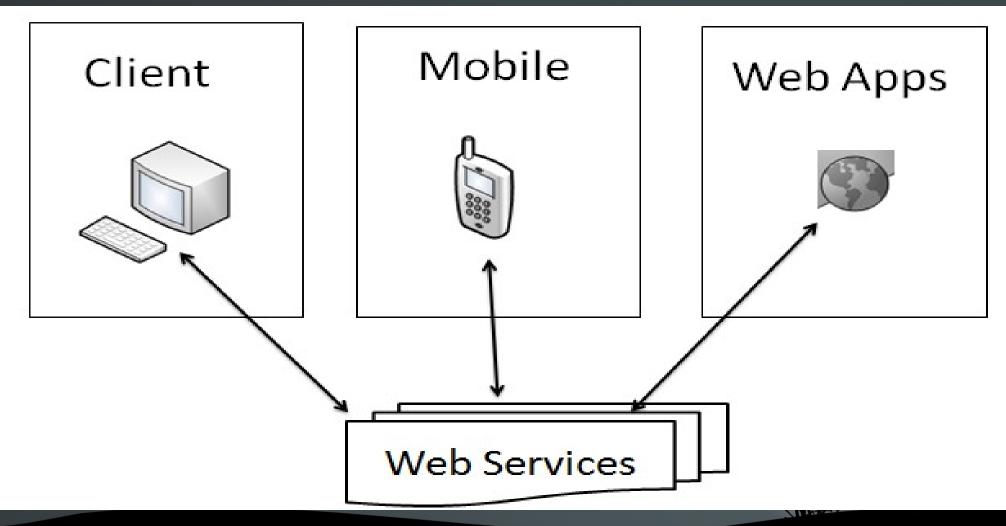
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What is Webservice?



Webservice Design Models

- XML RPC
- SOAP
- REST



Inside RESTful Webservice?

- Not Techology and not even protocol
- Software archetechtural principle
- Resouces transfer over HTTP











Basic Design Principles Of REST

- 1. HTTP methods explicitly
- 2. Be stateless
- 3. Directory structure-like URIs
- 4. Transfer resources by any valid MIME type supported by the web service.

Add Resources

POST http://api.linkedin.com/v1/people/123/friends

Content-Type: application/xml

<friend uri="urn:linkedin:v1:people/888"/>



Retrieve Resources

GET http://api.linkedin.com/v1/people/123

Output:



Update Resources

PUT http://api.linkedin.com/v1/people/123

```
Content-Type: application/xml
<person>
    <name>Sakib Mahmud</name>
    <best-friend uri="urn:linkedin:v1:people/999"/>
    <photo xsi:nil="true"/>
</person>
```



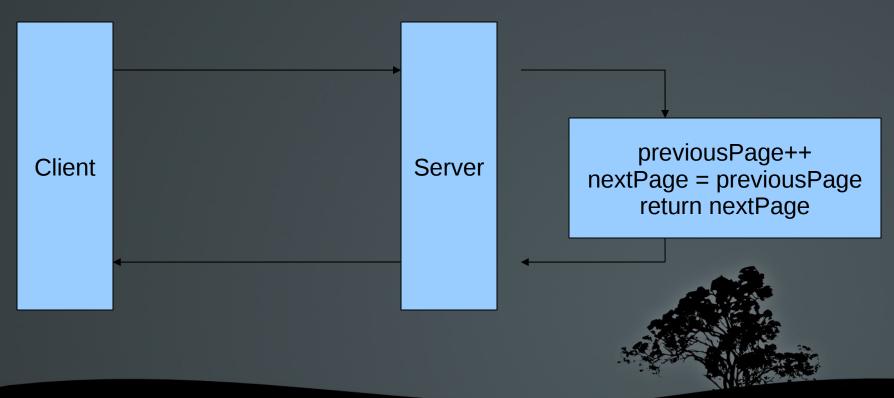
Delete Reasource

DELETE http://api.linkedin.com/v1/people/123/friends/456



Be Stateless

Stateful design (Non-REST):



Be Stateless

Stateless design (REST):

```
Client

GET /resources/?page=2 HTTP/1.1

<
```

Directory Structure-like URIs

http://example.com/topics/{topic_name}
http://graph.facebook.com/10150224661566729
http://twitter.com/statuses/user_timeline.xml?
id=eftakhairul



Transfer Resources By Any Valid MIME Type

Mostly Used

- XML
- JSON
- XHTML

Any other valid contend type



Thank You

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