Sac iOS Dev

April 3rd, 2012 - Web Services

Agenda

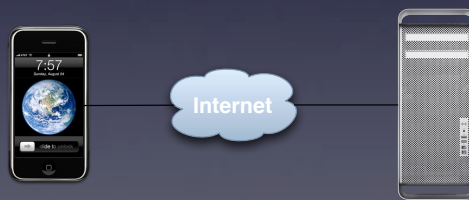- 6:30-6:45 Welcome and Introductions

- 6:45-7:30 Web Services Topic
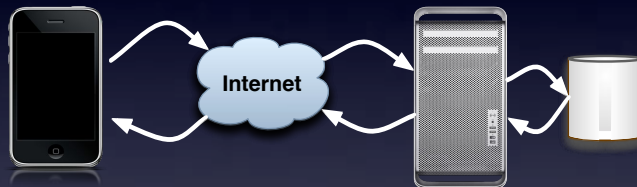
- 7:30-8:00 Q & A

- 8:00 Open Discussion

Web Services

- What is a web services?

- A web service is a method of communication between two electronic devices over the web (internet).

How it works

Ways to transport data

- XML - Extensible Markup Language

```
<?xml version="1.0" encoding="UTF-8" ?>
<results>
    <id>3</id>
    <title>Hello World</title>
    <descript>It's great to be an Engineer</descript>
</results>
```

Ways to transport data

- SOAP - Simple Object Access Protocol

```
<?xml ver Open Documents ng='utf-8'?>
<soapenv:Envelope                  oapenv="http://schemas.xmlsoap.org/soap/envelope/">
    <soapenv:Body>
        <ns:query xmlns:ns="http://rest.peargle.com/xsd">
            <return xmlns:ax263="http://model.rest.peargle.com/xsd"
                    xmlns:ax258="http://common.pearglecom/xsd"
                    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                    xmlns:ax261="http://util.java/xsd"
                    xsi:type="wsdemo">
                <wsdemo>
                    <id>3</id>
                    <title>Hello World</title>
                    <descript>It's great to be an Engineer</descript>
                </wsdemo>
            </return>
        </ns:query>
    </soapenv:Body>
</soapenv:Envelope>
```

Ways to transport data

- JSON - JavaScript Object Notation

```
{
    "results" : [
        {
            "id" : "3",
            "title" : "Hello World",
            "descript" : "It's great to be an Engineer"
        }
    ]
}
```

REST Web Service

- How to query data:

  - http://www.peargle.com/json/?q=wsdemo

- How to select one item:

  - http://www.peargle.com/json/?q=wsdemo&id=3

- How to Delete data:

  - http://www.peargle.com/json/?q=wsdemo&a=d&id=3

REST Web Service

- How to add/update data:

  - http://www.peargle.com/json/?q=wsdemo&a=s

- NOTE: You must POST the actual data you are saving or updating in the HTTP body.

  - curl -i -X POST -d '{"title":"Testing","descript":"This is a test!"}' http://www.peargle.com/json/?q=wsdemo\&a=s

  - curl -i -X POST -d '{"id":1,"descript":"Steve loves Cheese Pizza!"}' http://www.peargle.com/json/?q=wsdemo\&a=s

JSON Test App

- Use of JSONKit - Open Source

- Pulls data from a server

- Download Project (JSONtest)

  - http://www.meetup.com/Sacramento-iOS-Development/files/

Thank you!

Drive through