

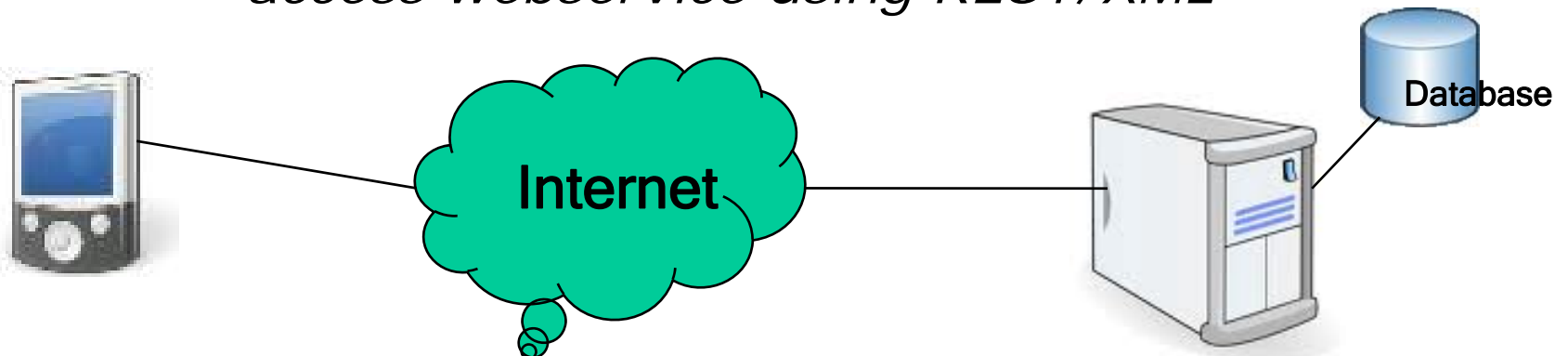
# APPLICATION DEVELOPMENT FOR MOBILE AND UBIQUITOUS COMPUTING

## MusicStrore

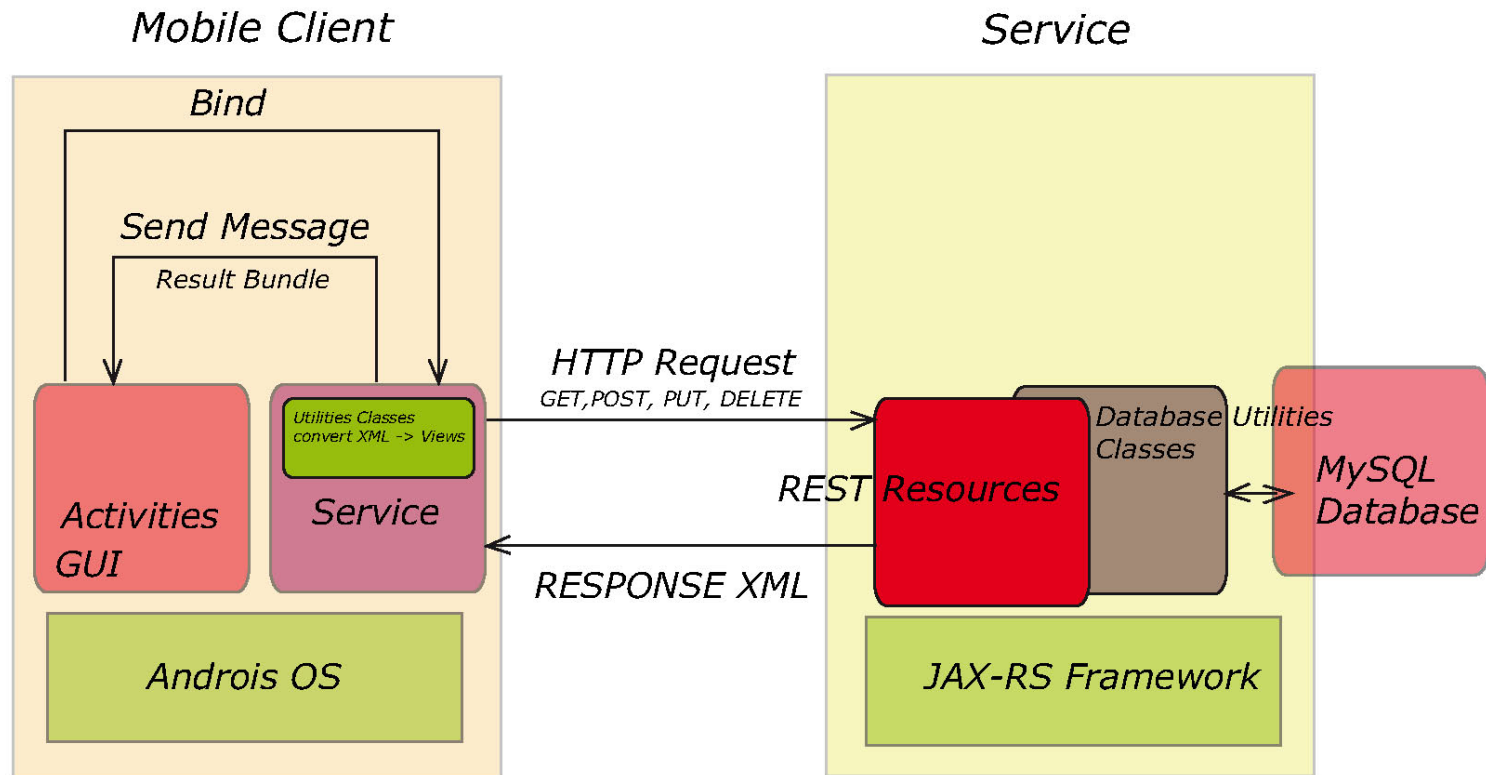
Team 13 Viet Anh Nguyen

- *Scenario (remind):*
  - *using and managing MusicStore with mobile phone*
  - *Customers can buy music files every where*
  - *instead of paying cash, they have to buy accountCard and register the account (with registercode) before buying*

- *Architecture :*
  - *client/server architecture :*
    - *server implementation based on webservices*
    - *client application runs on mobile phone*
    - *access webservice using REST/XML*

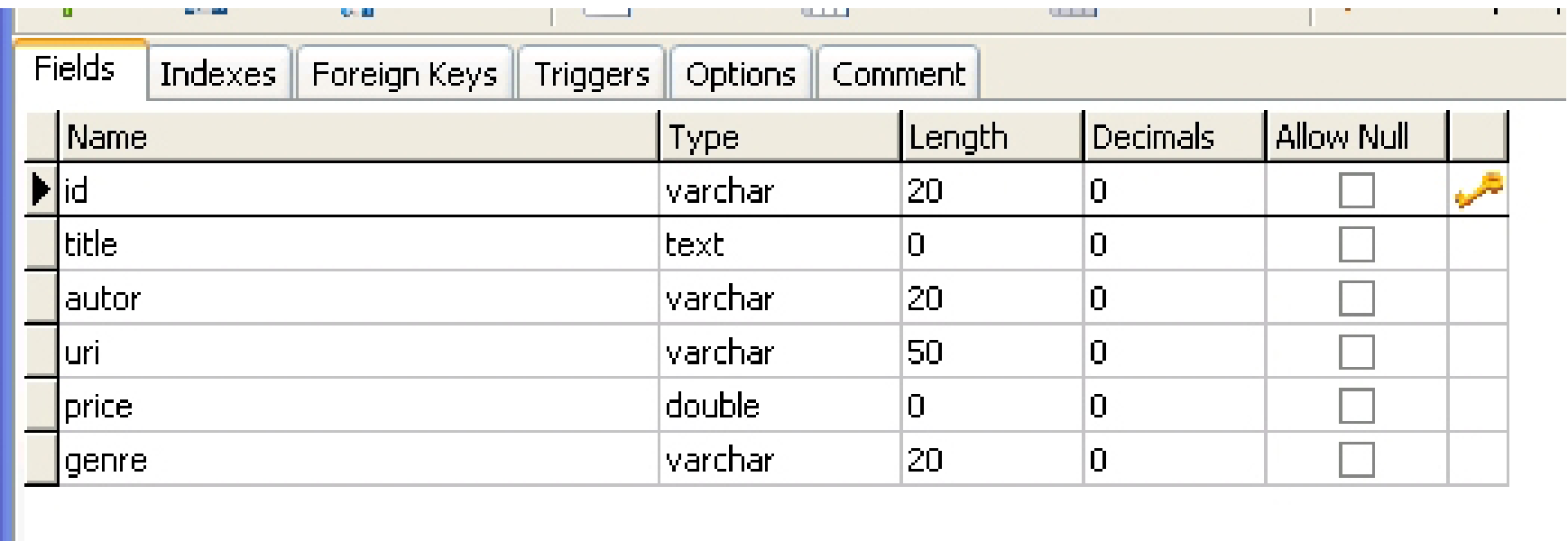



## Component Model



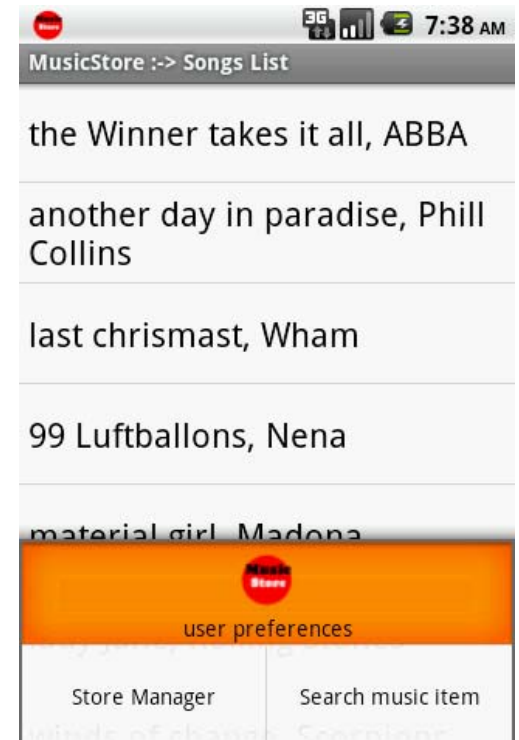
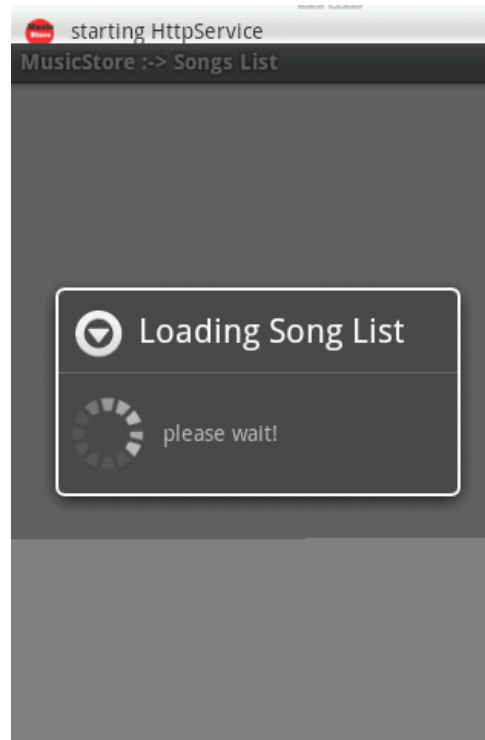
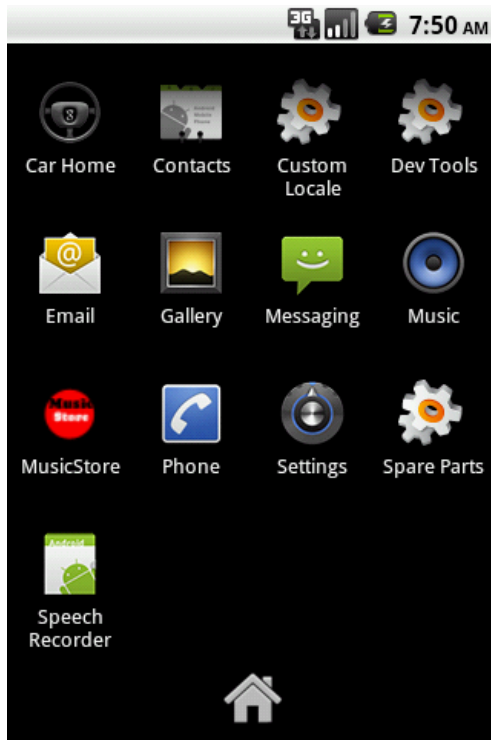
- *Technologies:*
  - *server :*
    - *server implementation using JAX-RS*  
*jersey 1.4*
    - *tomcat 6.0*
    - *mySQL*
    - *mysql-connector-java-5.1.14*
  - *client :*
    - *mobile phone with Android OS*
    - *org.apache.http.commonclient*

## *MusicItem*

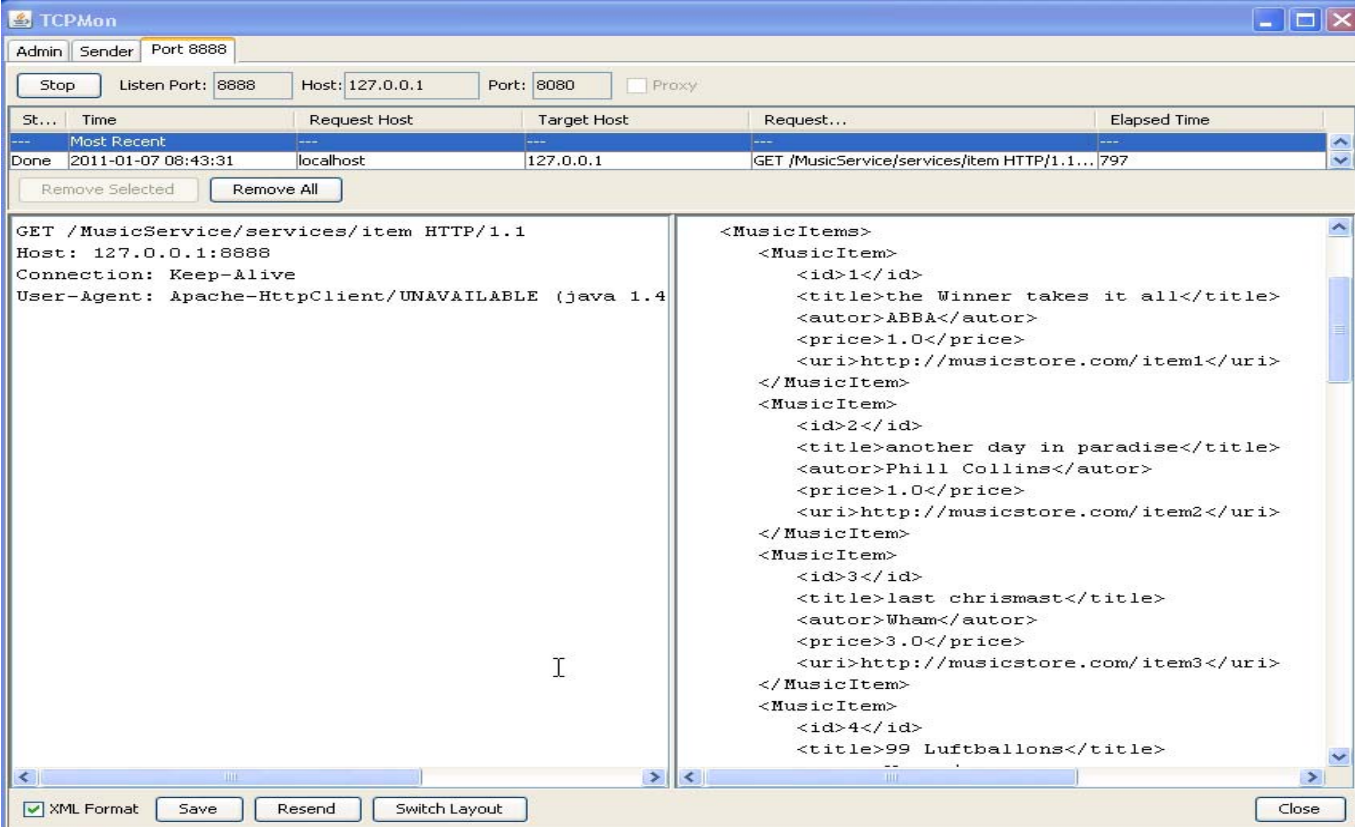


	Name	Type	Length	Decimals	Allow Null	
▶	id	varchar	20	0	<input type="checkbox"/>	
	title	text	0	0	<input type="checkbox"/>	
	autor	varchar	20	0	<input type="checkbox"/>	
	uri	varchar	50	0	<input type="checkbox"/>	
	price	double	0	0	<input type="checkbox"/>	
	genre	varchar	20	0	<input type="checkbox"/>	

## Mockups



## Monitoring with TCPMon



The screenshot shows the TCPMon application window. The top bar includes 'Admin', 'Sender', and 'Port 8888'. Below this, there are controls for 'Stop', 'Listen Port: 8888', 'Host: 127.0.0.1', 'Port: 8080', and a 'Proxy' checkbox. A table displays the most recent request:

St...	Time	Request Host	Target Host	Request...	Elapsed Time
Done	2011-01-07 08:43:31	localhost	127.0.0.1	GET /MusicService/services/item HTTP/1.1...	797

Below the table are 'Remove Selected' and 'Remove All' buttons. The main area is split into two panes. The left pane shows the request details:

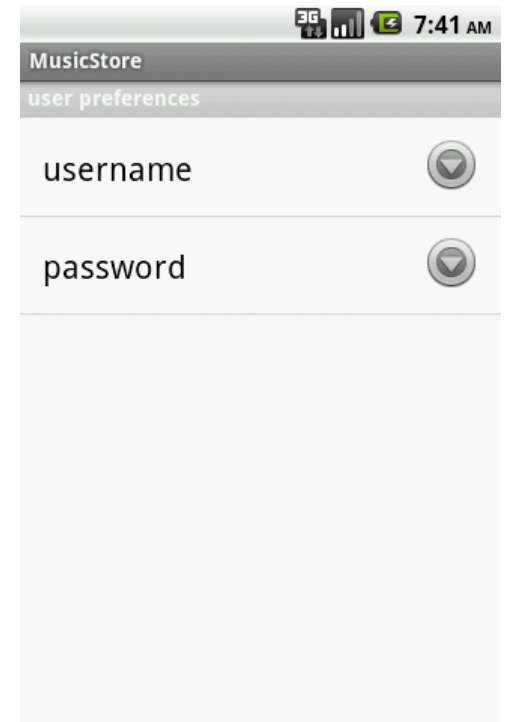
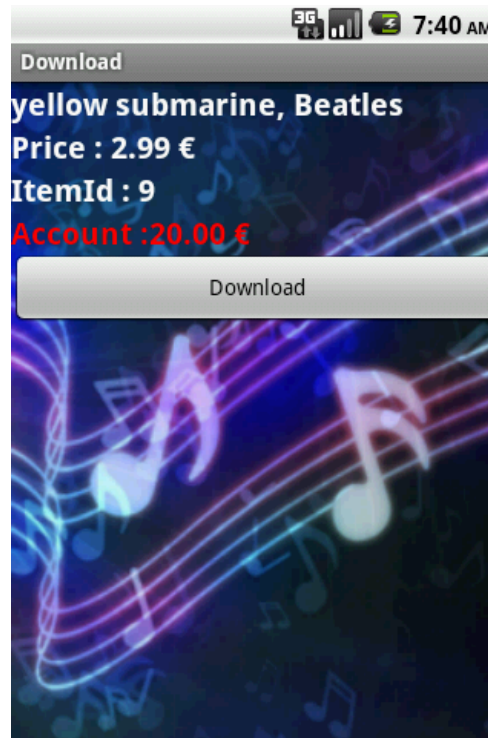
```
GET /MusicService/services/item HTTP/1.1
Host: 127.0.0.1:8888
Connection: Keep-Alive
User-Agent: Apache-HttpClient/UNAVAILABLE (java 1.4
```

The right pane shows the XML response:

```
<MusicItems>
  <MusicItem>
    <id>1</id>
    <title>the Winner takes it all</title>
    <autor>ABBA</autor>
    <price>1.0</price>
    <uri>http://musicstore.com/item1</uri>
  </MusicItem>
  <MusicItem>
    <id>2</id>
    <title>another day in paradise</title>
    <autor>Phill Collins</autor>
    <price>1.0</price>
    <uri>http://musicstore.com/item2</uri>
  </MusicItem>
  <MusicItem>
    <id>3</id>
    <title>last chrimast</title>
    <autor>Wham</autor>
    <price>3.0</price>
    <uri>http://musicstore.com/item3</uri>
  </MusicItem>
  <MusicItem>
    <id>4</id>
    <title>99 Luftballons</title>
  </MusicItem>
</MusicItems>
```

At the bottom, there are buttons for 'XML Format', 'Save', 'Resend', 'Switch Layout', and 'Close'.





*To do :*

- *User and Accounts managment*
- *Player to play the downloaded Music items*