



# **SERVICE ORIENTED ARCHITECTURE – CSE507 PROJECT**

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## PROJECT OBJECTIVES:

- Provide mash-up of web services from Amazon, Google and Rhapsody.
- Provide a basic authentication using login feature.
- Provide search by artist/album so that the end user has access to all the information about the artist/ album.
- Provide news related to music/artist/albums.
- Provide the facility to watch music videos online.
- Provide the option of blogging or posting reviews related to the songs/music videos.
- Provide the option of shopping and downloading the desired music files.



## WHY THIS PROJECT?

- Very large music services consumer base.
- Many Music-related services available but at different sites.
- Some prime music related services most used are :  
online streaming, music videos, shopping, blogging, music search.
- Why not provide all services at one place?
- Answer: SOA – Mash-up of Web services offered by the service providers.

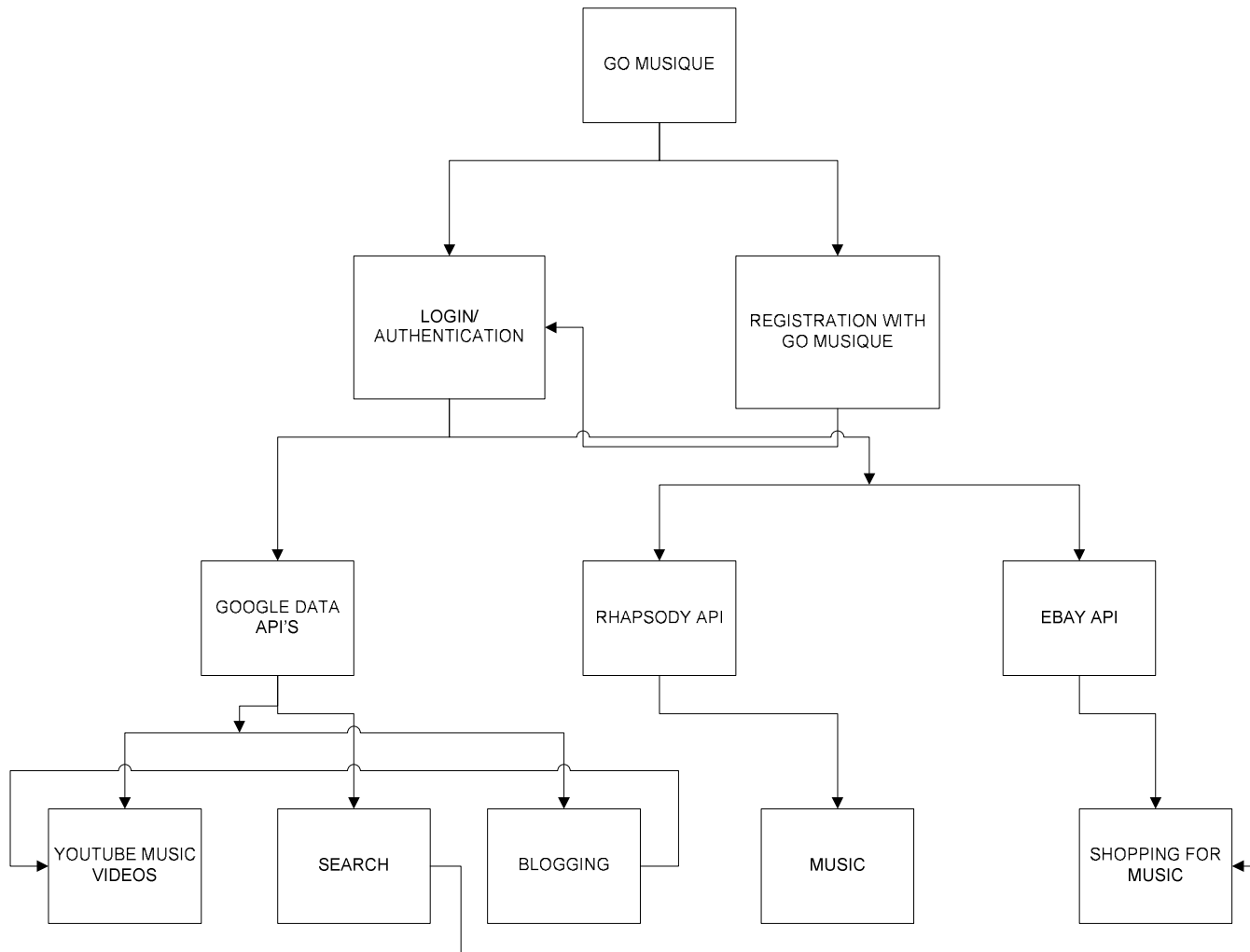


## PROJECT APPROACH:

- Identifying individual web services.
- Developing an Architectural Diagram.
- Consuming/Implementing Individual web services.
- Developing a Front End.
- Integration of the web services.



# DESCRIPTION : ARCHITECTURAL DIAGRAM



12/03/2007

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## DESCRIPTION:ARCHITECTURE

- 2 main interfaces for user : login, registration.
- Registered users use Login, New users have to register.
- Three Different web services providers:Amazon, Google and Rhapsody.
- Basic Services to be used: Music Videos, Search, Online Music, Blogging and Shopping.
- Access : Login process gives access to web services' front end.
- Google api's to : Music videos, Search and blogging.
- Amazon api's to : Shopping.
- Rhapsody api's to : Online music



## TECHNOLOGY USED:

- Netbeans 6.0 RC2
- Sun Java Application Server
- JRE 1.4
- Windows Vista !!!



## IMPLEMENTATION DETAILS:

- Why switched to Java/Netbeans from C#/.Net?
- Search wsdl's
- Create Web Service in the project
- Create Web Service Client
- Write code to send search string and display query results obtained from the web service



## PROJECT AN SOA:

- A Service-Oriented Architecture (SOA) is a design model for linking computational resources, data and applications to perform services and deliver results to service consumers.
- In this project we use the 4 layered SOA architecture comprising the Enterprise, Process, Intermediary and Basic Layers.
- We propose to provide a mash-up of services using this concept of SOA.



## RESULTS:

- Tutorial for esynaps.com
- Amazon wsdl
- Proposed integration and other web services



## REFERENCES:

- <http://testwww.netbeans.org/kb/55/websvc-jax-ws.html>
- <http://www.netbeans.org/kb/55/websvc-jax-ws-async.html>
- <http://code.google.com/apis/gdata/client-java.html>
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