



Itunes Sharing Information System

CTXML- 2014/2015

1. Abstract

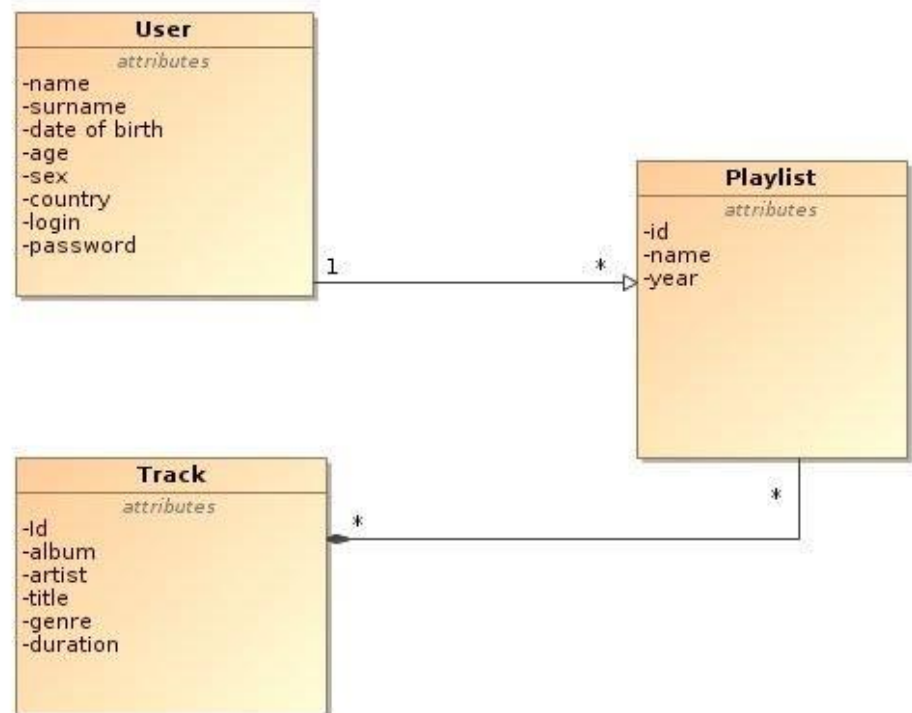
The aim of this project is to create a web based system which allows users to manage their music. The goal is to allow users to browse through the existing music information in the system, create their playlists and modify them. All existing music in the system will be created based on xml files uploaded by users. The information to be extracted is described in point 2.1. When the user uploads a new xml library, in case there's repeated information, all the previous data will be overwritten. In order to identify similar tracks, we will use artist, title and duration.

2. Description

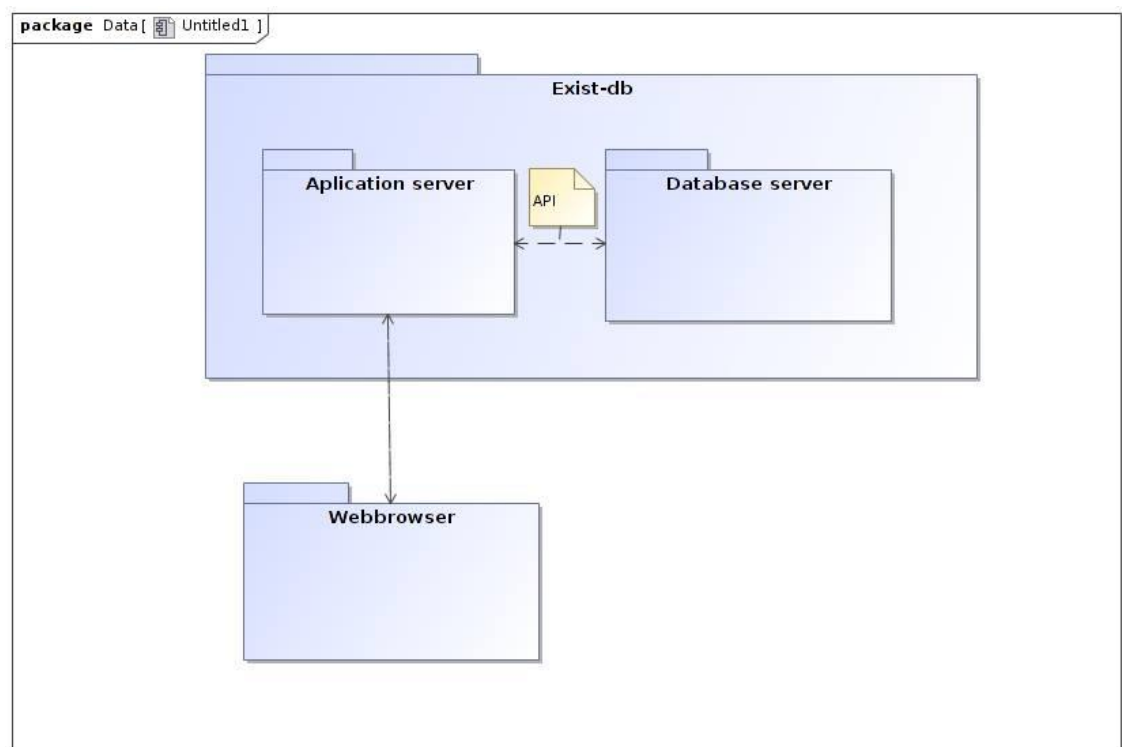
2.1 Scope

- Input
 - XML file uploaded by user
- Data Model
 - User
 - Date Of Birth
 - Country
 - Age
 - Sex
 - Name
 - Surname
 - Login
 - Password
 - Track
 - Id
 - Album
 - Artist
 - Title
 - Genre
 - Duration
 - Playlist
 - Id
 - Name
 - Year

- Data Diagram



2.2 Architecture



2.3 Functionalities

- Creating and editing user profile
- Upload music information from iTunes Library file (tracks and playlists)
- Browse music information by title, album, artist and year (search by free text)
- Store information about the users that uploaded music information
- Browse information about users

2.4 Output

- Tracks displayed in a table with columns (for artist, title, album, genre and duration)
- User info displayed (name, surname, date of birth, age, sex and country)
- List of users displayed

2.5 Software

- eXist
- Oxygen XML Editor
- CoffeCup Free HTML Editor

2.6 References

- W3C Schools: <http://www.w3schools.com/>

2.7 Tasks

1. Application design
 - a. Identify purpose
 - b. Identify inputs
 - c. Describe functionalities
 - d. Extract domain objects
 - e. Create architecture
 - f. Create user scenarios
2. Interface design
 - a. Create landing page
 - b. Create playlist view
 - c. Create users view
 - d. Create user properties view

- e. Create track view

- 3. Language design

- a. Create XML markup

- b. Create DTD

- c. Create XML Schema

- d. Create transforming mechanism (XSLT or XQuery)