Your Tickets

Analysis and Design Document

Student:Bianca-Elena Dondas

**Group:30238**

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
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# Project Specification

# Music is an art form, a cultural activity and an entertainment form. Music is found in every known culture, past and present, varying widely between times and places, and it exists since prehistory. Over time music has evolved and has become increasingly polar, musical genres have become more and more, as well as concerts. Before the internet exists to going to a concert, required a big effort. For example, you should find out where the concert is, what date of the concert is and where you can get a ticket. Now you simply google a band and find the tour dates and tickets to their concerts which you can buy online. “Your Tickets” is an app where you can do this but not only with a band. You can choose more bands, add it to your list and for each one of them you can get their tour dates, buy tickets and even access their store to buy t-shirts, posters, CDs, etc.

# Elaboration – Iteration 1.1

# Domain Model

*[Define the domain model and create the conceptual class diagrams]*

# Architectural Design

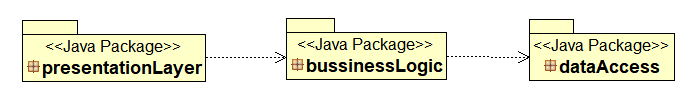
## Conceptual Architecture

For this project I choose to use a Bussiness Logic Layered Architecture. That means that the app will have 3 layers:

1. A Presentation Layer where are the user interface classes
2. A Bussiness Layer which will make the connection between data access layer and presentation layer.
3. A Data Access Layer where data management occurs using a database.

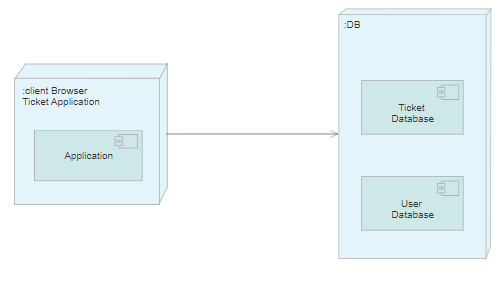
With 3-tier architecture, you have the ability to utilize new technologies as they become available. This ensures your product is ready to adapt; ready for the future. You have the opportunity to redesign your product or application and actually look not only to today’s needs but into the future. Another advantage of a 3-layer architecture is Enhanced Security: Through the implementation of several layers, enhances the data security on a service-by-service basis. As clients do not interact with the database directly, it provides less risk and confliction with unauthorized data. The placement of the business logic on a centralized server makes the data more secure.

## Package Design

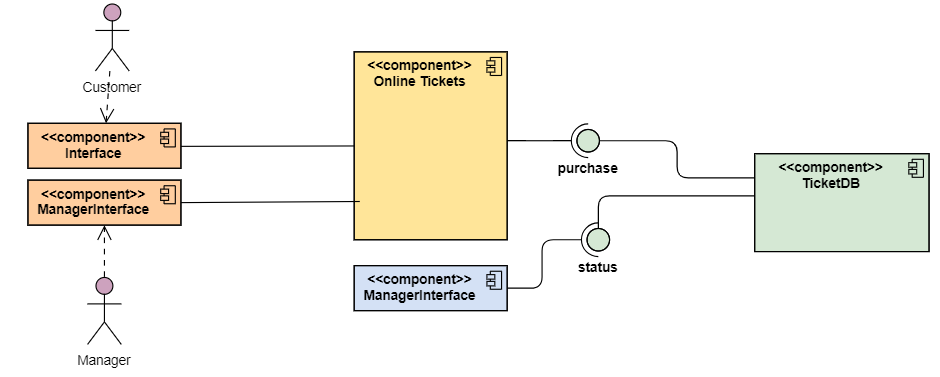


## Component and Deployment Diagrams

Deployment Diagram



Component Diagram



# Elaboration – Iteration 1.2

# Design Model

## Dynamic Behavior

*[Create the interaction diagrams (1 sequence, 1 communication diagrams) for 2 relevant scenarios]*

## Class Design

*[Create the UML class diagram; apply GoF patterns and motivate your choice]*

# Data Model

*[Create the data model for the system.]*

# Unit Testing

*[Present the used testing methods and the associated test case scenarios.]*

# Elaboration – Iteration 2

# Architectural Design Refinement

*[Refine the architectural design: conceptual architecture, package design (consider package design principles), component and deployment diagrams. Motivate the changes that have been made.]*

# Design Model Refinement

## *[Refine the UML class diagram by applying class design principles and GRASP; motivate your choices. Deliver the updated class diagrams.]*

# Construction and Transition

# System Testing

*[Describe how you applied integration testing and present the associated test case scenarios.]*

# Future improvements

* Paying with credit card
* Chat for users
* Notify a user when a band he likes is in his town

# Bibliography

1. <https://www.quora.com/What-are-the-advantages-and-disadvantages-of-architecture-1-tier-2-tier-3-tier-and-n-tier>
2. <https://www.izenda.com/5-benefits-3-tier-architecture/>