Demo

Technical Design Document

Septrember 2022

# TABLE OF CONTENTS

[1. TABLE OF CONTENTS 2](#_Toc115420331)

[**1.1** **SERVICE ACCESS CLASSES** 3](#_Toc115420332)

[**1.1.1** **ApiController** 3](#_Toc115420333)

[**1.1.2** **Match** 3](#_Toc115420334)

[**1.1.3** **MatchOdd** 4](#_Toc115420335)

[**1.1.4** **MatchOddRepository** 4](#_Toc115420336)

[**1.1.5** **MatchRepository** 4](#_Toc115420337)

[**1.1.6** **ResourceNotFoundException** 4](#_Toc115420338)

[**1.2** **Database** 5](#_Toc115420339)

[**1.2.1** **MATCH Table** 5](#_Toc115420340)

[**1.2.2** **MATCH Table** 5](#_Toc115420341)

## **SERVICE ACCESS CLASSES**

### **ApiController**

Spring ApiController takes care of mapping request data to the defined request handler method. Once response body is generated from the handler method, it converts it to JSON or XML response.

|  |  |
| --- | --- |
| **Location** | **demo\src\main\java\com\bet\controller\ApiController.java** |
| **Functionality** | 1. **getAllMatches()** method retrieves all matches and their match odds from Database. 2. **getMatchById()** retrieves a match and its matchodds records from Database. 3. **createMatch()** method performs the insert of a new match record in Database. 4. **updateMatch()** method updates a match record in Database. 5. **deleteMatch()** method performs the deletion of a match record and its connected match odds from Database. |

### **Match**

This class describes the parameters that a Match object is consisted of, along as with the connection with match table in Database.

|  |  |
| --- | --- |
| **Location** | **demo\src\main\java\com\bet\model\Match.java** |
| **Functionality** | 1. **OneToMany** Annotation declares that along with the deletion of a match, the respective match odds records will be deleted to. |

**Parameters**

|  |  |
| --- | --- |
| Name | Type |
| id | Long |
| description | String |
| matchDate | LocalDateTime |
| teamA | String |
| teamB | String |
| sport | Enumerator |

### **MatchOdd**

This class describes the parameters that a MatchOdd object is consisted of, along as with the connection with match\_odds table in Database.

|  |  |
| --- | --- |
| **Location** | **demo\src\main\java\com\bet\model\MatchOdd.java** |
| **Functionality** | **1. JoinColumn** Annotation declares at what column the connection between match and match\_odds table will be.   1. ManyToOne Annotation declares that one match can have many match odds. |

**Parameters**

|  |  |
| --- | --- |
| Name | Type |
| id | Long |
| specifier | String |
| odd | LocalDateTime |

### **MatchOddRepository**

This class describes the client that will perform the connection and proper communication with match\_odds table in Database.

|  |  |
| --- | --- |
| **Location** | **demo\src\main\java\com\bet\repository\MatchOddRepository.java** |
| **Functionality** |  |

### **MatchRepository**

This class describes the client that will perform the connection and proper communication with match table in Database.

|  |  |
| --- | --- |
| **Location** | **demo\src\main\java\com\bet\repository\MatchRepository.java** |
| **Functionality** |  |

### **ResourceNotFoundException**

This class describes the exception that will be returned in case an Exception is occurred in ApiCotroller class.

|  |  |
| --- | --- |
| **Location** | **demo\src\main\java\com\bet\exception\ResourceNotFoundException.java** |
| **Functionality** |  |

## **Database**

### **MATCH Table**

This tables keeps all records of a Match.

|  |
| --- |
| Column Name |
| id |
| description |
| match\_date |
| team\_a |
| team\_b |
| sport |

### **MATCH Table**

This tables keeps all records of a Match Odd. The column match\_id is a foreign key from match table.

|  |
| --- |
| Name |
| id |
| match\_id |
| specifier |
| odd |