**Server Requests in response to Client Mobile 1 Requests**

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| **Request : 1** | **Sign-Up process with library user** | | | | |
| Direction | **This message is sent from the Server to the DB.**  **(The final destination is mobile app) a request to Sign the user Up.** | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | comment |
| Request Id | Number | Yes |  |  |
| Email | Text | Yes | Eng |  |
| Password | Text | Yes | Eng |  |
| Usertype | Boolean | Yes |  | 0 - Regular User  1 - Curator |
| Registration Type | Char | Yes | Eng | L - library |
| FirstName | Text | Yes ,If userType=1 | Eng |  |
| LastName | Text | Eng |  |
| Age | Number | No |  |  |
| Gender | Boolean | No |  | 0 - Male  1 - Female |
| Reply: | IsVaild | Boolean | Yes |  | checks if Email (Needs to be decided which checks to preform on email) and password are valid:  (SRS *1.1.1.2.2.* The **password** should contain at least one lowercase letter and on uppercase letter and 8 characters) |
| UserID | Number | Yes |  |  |
| Email | Text | Yes | Eng | Profile Info |
| FirstName | Text | if exists | Eng |
| LastName | Text | if exists | Eng |
| Age | int | if exists |  |
| Gender | Boolean | if exists |  |
| GameScore | Int = 0 (initial value) | if exists |  |
| Bibliography Array | Strings Array | if exists |  |

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| **Request : 2** | **Sign-in process with library user** | | | | |
| Direction: | **This message is sent from the server to the DB.**  **(The final destination is the mobile app), a request to Sign the user In.** | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id | Number | Yes |  |  |
| Email | Text | Yes | Eng |  |
| Password | Text | Yes | Eng |  |
| Reply: | Approved | Boolean | Yes |  | checks if email and password match  1 - Aprroved  0 - don’t match |
| UserID | Number | Yes |  |  |
| Email | Text | Yes | Eng |  |
| FirstName | Text | if exists | Eng |  |
| LastName | Text | if exists | Eng |  |
| Age | number | if exists |  |  |
| gender | boolean | if exist |  | 0 - Male  1 - Female |
| GameScore | Int | yes |  |  |
| Bibliography Array | Strings Array | if exists |  |  |

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| **Request 4** | **GetUserInfo** | | | |
| Direction: | A request to get **all** User Information (from server to DB) | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Comment |
| UserID | Number | Yes |  |
| Reply: | FirstName | Text | If exists |  |
| LastName | Text | If exists |  |
| Age | number | If exists |  |
| Gender | Boolean | If exists | 0-male  1-female |
| Gamescore | int | If exists |  |
| Bibliography Array | String Array | If exists |  |
| Email | Text | Yes |  |

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| **Request : 5** | **Add to Bookmarks** | | | | |
| Direction: | This message is sent from the server to the DB.  The final destination is the mobile app | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | comment |
| Request Id: | Number | Yes |  |  |
| User ID | Number | Yes |  |  |
| BookID | String | Yes | Eng |  |
| PageID | String | Yes | Eng |  |
| Reply: | Result | Boolean | Yes |  | 1-success  0-failure |

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| **Request : 6** | **Remove from Bookmarks** | | | | |
| Direction: | This message from server to DB back to server  The final destination is the mobile app | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| User ID | Number | Yes |  |  |
| BookID | String | Yes | Eng |  |
| PageID | String | Yes | Eng |  |
| Reply: | Result | Boolean | Yes |  | 1-success  0-failure |

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| **Request : 7** | **Query book by book\_id** | | | | |
| Direction: | mobile has book id send it to the server , server returns the result of the query to API, API analyze reformate | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | comment |
| Request Id: | Number | Yes |  |  |
| User Id: | Number | Yes |  |  |
| Book Id: | String | Yes | Eng |  |
| Replay: | bookPages | String Array[ ] | Yes |  | linkes of book pages |

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| **Request : 14** | **Add/remove favorite book** | | | | |
| Direction: | This add/remove favorite is sent from server to DB then to server  The final destination is the mobile app | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | comment |
| Request Id: | Number | Yes |  |  |
| User Id: | Number | Yes |  |  |
| Book Id: | String | Yes | Eng |  |
| Myfavorite | Boolean | Yes |  | 1=add  0=remove |
| Replay: | Result | Boolean | Yes |  | 1-success  0-failure |

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| **Request : 15** | **Add/remove bibliography book** | | | | |
| Direction: | This message is sent from server to DB then back to server The final destination is the mobile app. | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | comment |
| Request Id: | Number | Yes |  |  |
| User Id: | Number | Yes |  |  |
| Book Id: | Number | Yes |  |  |
| Mybibliography | Number | Yes |  | 1=add  0=remove |
| Replay: | True/false | Boolean | Yes |  | 1-success  0-failure |

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| **Request : 30** | **SearchBook** | | | | |
| Direction: | This message is send from the Mobile client and send to the server.  The final destination is the DB,  details: This function will return **answer** if DB updated search | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| User ID | Number | Yes |  |  |
| Title | String | Yes, One of the 2 | Multi |  |
| Author | String | Multi |  |
| from year | Number |  |  |  |
| to year | Number |  |  |  |
| Free text | text |  | Multi |  |
| Reply: | Result | Boolean | Yes |  | 1-success  0-failure |

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| **Request : 31** | **SearchBook** | | | | |
| Direction: | This message is send from the Mobile client and send to the server.  The final destination is the API,  details: This function will return **all the books** with the given title | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| User ID | Number | Yes |  |  |
| Title | String | Yes , One of the 2 | Multi |  |
| Author | String | Multi |  |
| from year | Number |  |  |  |
| to year | Number |  |  |  |
| Free text | text |  | Multi |  |
| Index | Number | Yes, Default = 0 |  |  |
| Reply: | Result | Boolean | Yes |  | If any records exists |
| List | ArrayList<Book> | Yes ( NULL if not found) |  |  |

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| **Request : 32** | **SearchHandwriting** | | | | |
| Direction: | This message is send from the Mobile client and send to the server.  The final destination is the DB,  details: This function will return **answer** if DB updated search | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| User ID | Number | Yes |  |  |
| Freetext | String | Yes , One of the 2 | Multi |  |
| Title | String | Multi |  |
| from year | Number |  |  |  |
| to year | Number |  |  |  |
| Publisher | String |  | Multi |  |
| Reply: | Result | Boolean | Yes |  | 1-success  0-failure |

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| **Request : 33** | **SearchHandwriting** | | | | |
| Direction: | This message is send from the Mobile client and send to the server.  The final destination is the API,  details: This function will return **all the handwritings** with the given **free text** | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| User ID | Number | Yes |  |  |
| Freetext | String | Yes, One of the 2 | Multi |  |
| Title | String | Multi |  |
| from year | Number |  |  |  |
| to year | Number |  |  |  |
| Publisher | String |  | Multi |  |
| Index | Number | Yes, Default = 0 |  |  |
| Reply: | Result | Boolean | Yes |  | If any records exists |

**Server Requests in response to Client Mobile 2 Game Requests**

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| **Request : 1** | **Start Quiz** | | | | |
| Direction: | A request to start quiz from server to DB | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| User id: | Number | Yes |  |  |
| Game id: | Number | Yes |  | 1 – Trivia |
| Item id: | Number | Yes |  |  |
| Reply: | Quiz ID | Number | Yes |  | Quiz set of 5 questions, the user hasn’t tried to answer yet, regarding the item |
| Question number x5 | Number | Yes |  | Get 5 Questions regarding the item and their answers (each question 4 possible answers) |
| Question text x5 | Long text | Yes | Eng |
| Answer number x20 | Number | Yes |  |
| Answer text x20 | Long text | Yes | Eng |
| Answer type x20 | Boolean | Yes |  | 1 – correct  0 – incorrect |
| User’s previous score | number | Yes |  |  |

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| **Request : 1.1** | **Question answer** | | | | |
| Direction: | Request from server to DB to save user’s answer choice and the question answered. | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| User id: | Number | Yes |  |  |
| item id: | Number | Yes |  |  |
| Question number | Number | Yes |  |  |
| Q Choice number: | Number | Yes |  | {1,2,3,4} |
| Quiz ID | Number | Yes |  | Quiz set of 5 questions, regarding the item |
| Reply: | Result |  | Yes |  | 1-success  0-failure |

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| **Request : 1.2** | **Finish quiz** | | | | |
| Direction: | Request from server to DB after finishing a quiz, to update the user’s info and score | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| User id: | Number | Yes |  |  |
| Item id: | Number | Yes |  |  |
| Quiz ID | Number | Yes |  | Quiz set of 5 questions, regarding the item |
| User’s score: | Number | Yes |  | {1,2,3,4,5 }  How many correct answers:  Answer types of Q Choice numbers =1 |
| Reply: | Result | Boolean | Yes |  | 1-success  0-failure |

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| **Request : 3** | **Leaderboard** | | | | | |
| Direction: | Request from server to DB to receive the all time leaderboard between users and their scores | | | | | |
| Input Parameters: | Field | | Field Type | Mandatory? | Language | comment |
| Request Id: | | Number | Yes |  |  |
| User id: | | Number | Yes |  |  |
| Replay: | List of all users | User rank | Number | Yes |  | 1-highest score  2-second highest score  …etc. |
| First name | Text | If exists | Eng |  |
| Last name | Text | If exists | Eng |  |
| Score | Number | Yes |  | Sum of all user’s scores in quizzes |

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| **Request : 4** | **Adding questions** | | | | |
| Direction: | Request from server to DB to add new question to Trivia game | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| Request Id: | Number | Yes |  |  |
| Adding User id: | Number | Yes |  |  |
| Question text: | Long Text | Yes | Eng |  |
| Answer number x4 | Number | Yes |  |  |
| Answer text x4 | Long text | Yes | Eng |  |
| Answer type x4 | Boolean | Yes |  | 1 – correct  0 – incorrect |
| Item id: | Number | Yes |  |  |
| Reply: | Result | Boolean | Yes |  | 1-success  0-failure |

**Server Requests in response to Client Web Requests**

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| **Request : 1** | **Login process with Library user** | | | | |
| Direction: | This message is sent from server to DB | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| request ID: | Number | Yes | Eng | “Login” |
| Email: | Text char (30) | Yes | Eng | xxx@xxx.xxx |
| Password: | Text char (10) | Yes | Eng |  |
| Reply: | emailExist | Boolean | Yes |  | 1 - exists  0 - not |
| Password and email match | Boolean | Yes |  | 1 – match  0 - not |
| User type | Boolean | Yes |  | 0 - Regular User  1 - Curator |

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| **Request : 2** | **Full User List for Admin** | | | | |
| Direction: | This message is sent from server to DB, back to server. Returns a list of users. | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| request ID: | Number | Yes | Eng |  |
| Number | Number | Yes | Eng | How many users to return if Number== ‘-1’  Return All users (default) |
| Reply: | User type | Boolean | Yes |  | 0 - Regular User  1 - Curator |
| user id | Int | Yes | Eng |  |
| Email | String | Yes | Eng |  |

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| **Request : 3** | **Pending Curator List for Admin** | | | | |
| Direction: | The message is sent from the server to the DB. Returns a list of pending Curator users. | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| request ID: | Number | Yes | Eng | “PendingList” |
| Reply: | User id | Int | Yes | Eng |  |
| User first + last name | String | Yes | Eng |  |

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| **Request : 4** | **Approve Curator Query** | | | | |
| Direction: | The message is sent from the server to the DB. | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| request ID: | Number | Yes | Eng | “ApproveCurator” |
| Email: | text | Yes | Eng | xxx@xxx.xxx |
| Reply: | Success/Fail | Boolean | Yes | Eng | 1-success  0-failure |

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| **Request : 5** | **Query Log List of all Users** | | | | |
| Direction: | This message is sent from the Server to the DB.  The final destination is the Web client. Returns searches info for statistics. | | | | |
| Input Parameters: | Field | Field Type | Mandatory? | Language | Comment |
| request ID: | Number | Yes |  | “QueryLog” |
| Number | Number | Yes |  | How many records to return if Number== ‘-1’  Return All (default) |
| Reply: | Date: | Date format | Yes |  | Date of search performed |
| User type | Boolean | Yes |  | 0 - Regular User  1 - Curator |
| Type of resource | enum: BOOK, MAP, HANDWRITING, MAGAZINE | Yes | Eng | Library category |
| Author | String | Yes (Author/Title for book, Title/Freetext for handwriting) | Multi |  |
| Title | String | Multi |  |
| Freetext | String | Multi | Keyword used |
| Publish year | Number |  |  |  |