Temasek Polytechnic

School of Informatics & IT

**Database Application Development (CIA1C06)**

**AY 18/19 Oct Semester**

**Project Part 3**

**(SQL and Server-Side Codes)**

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# SQL Codes

Write out the related SQL codes, route pattern and HTTP method for every functionality that your web application has. You will demonstrate to your Lecturer if the functionalities work using Postman based on the routes you created in the route file, and the functions that you wrote in the controller and DB files.

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| **Functionalities of Web Application** | **Related SQL code** | **URL Route Pattern** | **HTTP Method** | **Result From Postman**  **(Pass/Fail)**  (To be filled by Lecturer) |
| Show all games | SELECT \* FROM game | /games | GET |  |
| Add Games | INSERT INTO game (game\_title, game\_developer, game\_platform, game\_genre, game\_trailer, game\_image1, game\_image2, game\_image3, game\_pro, game\_cons, game\_summary, game\_fav) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?); | /games/:id | POST |  |
| Update Game Information | UPDATE game SET game\_title = ?, game\_developer = ?, game\_platform = ?, game\_genre = ?, game\_trailer = ?, game\_image1 = ?, game\_image2 = ?, game\_image3 = ?, game\_pro = ?, game\_cons = ?, game\_summary = ?, game\_fav = ? WHERE (game\_id = ?); | /games/:id | PUT |  |
| Get Game Information By Id | SELECT \* FROM game where game\_id= ? | /games/:id | GET |  |
| Search Game by Title | SELECT \* FROM game WHERE game\_title LIKE CONCAT(?,'%') | /games/search?title=Test | GET |  |
| Filter Game by Genre and/or Platform | SELECT \* FROM game WHERE (game\_genre LIKE CONCAT('%',?,'%')) AND (game\_platform LIKE CONCAT('%',?,'%')) | /games/search?platform=test&genre=test  /games/search?platform=test  /games/search?genre=test | GET |  |
| Delete Game by Id | DELETE FROM game WHERE game\_id = ? | /games/:id | DELETE |  |
| Search By Developers | SELECT \* FROM game WHERE game\_developer LIKE CONCAT(?,'%')  SELECT \* FROM account | /games/search?dev=test | GET |  |
| Get Account By Id  (Login) | SELECT \* FROM account where account\_id= ? | /accounts | GET |  |
| Search By Username | SELECT \* FROM account where account\_username LIKE concat(?, '%') | /accounts/search?user=test | GET |  |
| Add Account | INSERT INTO account (account\_date\_created, account\_email, account\_username, account\_password, `account\_DOB`, `account\_profile`, `account\_isSuspended`, `account\_isEditor`) VALUES (?, ?, ?, ?, ?, ?, ?, ?); | /accounts | POST |  |
| Update Account Information | UPDATE account SET account\_email = ?, account\_password = ?, account\_DOB = ?, account\_profile=?, account\_isSuspended = ?, account\_isEditor = ? WHERE account\_id = ? | /accounts/:id | PUT |  |
| Delete Account | DELETE FROM account WHERE account\_id=? | /accounts/:id | DELETE |  |
| Get Accounts Information | SELECT \* FROM accounts | /accounts | GET |  |
| Get Reviews | SELECT \* FROM review | /reviews | GET |  |
| Get the review by the Id | SELECT \* FROM review where review\_id= ? | /reviews/:id | GET |  |
| Add Review | INSERT INTO review (review\_isAnonymus, review\_username, review\_ratings, review\_comments, review\_date\_posted, account\_review\_id, game\_review\_id) VALUES (?, ?, ?, ?, ?, ?, ?); | /reviews | POST |  |
| Update Review | UPDATE review SET review\_isAnonymus = ?, review\_ratings = ?, review\_comments = ?, review\_date\_posted = ? WHERE (review\_id = ?); | /reviews/:id | PUT |  |
| Delete Review | DELETE FROM review WHERE review\_id= ? | /reviews/:id | DELETE |  |
| Get Review By game title | select review.\* from review inner join game on game\_review\_id=game\_id where game\_title like ? | /reviews/search?game\_title=test | GET |  |
| Search review by username and/or anonymity | SELECT \* from review where review\_isAnonymus LIKE ? AND review\_username LIKE CONCAT(?,'%') | /reviews/search?user=test&hidden=1  /reviews/search?user=test  /reviews/search?hidden=1 | GET |  |
| search review by the keyword | SELECT \* FROM review where review\_comments LIKE CONCAT('%',?,'%') | /reviews/search?content=test | GET |  |
| Get All Replies | SELECT \* FROM reply\_review | /reviews/replies | GET |  |
| Add Reply Reviews | INSERT INTO reply\_review (reply\_username, reply\_date, reply\_comment, review\_reply\_id, account\_reply\_id)  VALUES (?, ?, ?, ?,?) | /reviews/replies | POST |  |
| Delete replies by id | DELETE FROM reply\_review WHERE reply\_id= ? | /reviews/replies/:id | DELETE |  |
| Update reply by id | UPDATE reply\_review SET reply\_date= ?, reply\_comment = ? WHERE reply\_id= ? | /reviews/replies/:id | PUT |  |
| Find replies by review Id | SELECT reply\_review.\* FROM reply\_reviews INNER JOIN reviews ON review\_reply\_id=review\_id WHERE review\_id = ? | /reviews/replies/search?reviewId=1 | GET |  |
| Get Genre | SELECT \* FROM genre | /genres | GET |  |
| Find Genre By title | SELECT \* FROM genre WHERE genre\_title LIKE CONCAT(?,'%') | /genres/search?title=test | GET |  |
| Find Genre By Id | SELECT \* FROM genre where genre\_id=? | /genres/:id | GET |  |
| Add Genre | INSERT INTO genre (genre\_game\_id, genre\_title) VALUES (?,?) | /genres | POST |  |
| Update genre | UPDATE genre SET genre\_title=? WHERE genre\_id=? | /genres/:id | PUT |  |
| Delete Genre | DELETE FROM genre WHERE genre\_id= ? | /genres/:id | DELETE |  |
| Filter By Game Id | SELECT from genre where genre\_game\_id=? | /genres/search?GameId=1 | GET |  |
| Get Platforms | SELECT \* FROM platform | /platforms | GET |  |
| Get platform by title | SELECT \* FROM platform WHERE platform\_title LIKE CONCAT(?,'%') | /platforms/search?title=test | GET |  |
| Add platforms | INSERT INTO platform (platform\_game\_id, platform\_title) VALUES (?,?)" | /platforms | POST |  |
| Update platforms | UPDATE platform SET platform\_title=? WHERE platform\_id=? | /platforms/:id | PUT |  |
| Delete platforms | DELETE FROM platform WHERE platform\_id= ? | /platforms/:id | DELETE |  |
| Get platforms by platform id | SELECT from platform where platform\_id=? | /platforms/:id | GET |  |
| Get platforms by platform game id | SELECT from platform where platform\_game\_id=? | /platforms/search?gameId=1 | GET |  |
| Get All Editors | SELECT \* FROM editor | /editors | GET |  |
| Get editor by its id | SELECT \* FROM editor where editor\_id= ? | /editors/:id | GET |  |
| Add editors | INSERT INTO editor (editor\_name, editor\_profile\_pic, editor\_bio, editor\_account\_id) VALUES (?, ?, ?, ?); | /editors | POST |  |
| Update editors | UPDATE editor LEFT JOIN editor\_review ON editor\_id=editor\_review\_editor\_id SET editor\_name = ?, editor\_profile\_pic = ?, editor\_bio = ?, editor\_review.editor\_review\_about = ? WHERE editor\_id= ?; | /editors/:id | PUT |  |
| Delete editors | DELETE FROM editor WHERE editor\_id= ? | /editors/:id | DELETE |  |
| Get editors by account\_username | SELECT editor.\* FROM editor INNER JOIN account on editor\_account\_id = account\_id WHERE account\_username LIKE (?,'%') | /editors/search?user=test | GET |  |
| Get Editors by real name | SELECT \* FROM editor WHERE editor\_name LIKE CONCAT(?,'%') | /editors/search?name=John | GET |  |
| Get editors reviews | SELECT \* FROM editor\_review | /editors/reviews | GET |  |
| Add editor’s reviews | INSERT INTO editor\_review (editor\_review\_game, editor\_review\_about, editor\_review\_text, editor\_review\_editor\_id)\  VALUES (?, ?, ?, ?); | /editors/reviews | POST |  |
| Update editor’s reviews | UPDATE editor\_review SET editor\_review\_game = ?, editor\_review\_text = ? WHERE editor\_review\_id = ?; | /editors/reviews:id | PUT |  |
| Delete editor’s reviews | DELETE FROM editor\_review WHERE editor\_review\_id = ? | /editors/reviews/:id | DELETE |  |
| Get editor’s review by title | SELECT \* FROM editor\_review where editor\_review\_title like concat(?,'%') | /editors/reviews/search?title=Test | GET |  |
| Get reviews by account username from editor | SELECT account\_username,editor\_review.\* FROM editor\_review INNER JOIN account ON editor\_review\_account\_id=account\_id WHERE account\_username LIKE CONCAT(?,'%'); | /editors/reviews/search?user=test | GET |  |
| Get editor’s review by keyword | SELECT \* FROM editor\_review WHERE editor\_review\_text LIKE CONCAT('%',?,'%'); | /editors/reviews/search?content=Super | GET |  |
| Get editor reviews by its id | SELECT \* FROM editor\_review WHERE editor\_review\_id = ? | /editors/reviews/:id | GET |  |
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