Temasek Polytechnic

School of Informatics & IT

**Database Application Development (CIA1C06)**

**AY 21/22 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**  **(Full and complete SQL Statements, not partial)** | **URL Route Pattern** | **Payload** | **HTTP Method** | **Result From Postman**  **(Pass/Fail)**  (To be filled by Lecturer) |
| Signup (Create an account and upload profile picture) | INSERT INTO account\_info (username, password, first\_name, last\_name, gender, mobile\_num, email, profile\_pic) VALUES (?, ?, ?, ?, ?, ?, ?, ?) | /accounts | {          "username": "Mik",          "password": "123e56",          "first\_name": "Doctor",          "last\_name": "Rookie",          "gender": "Female",          "mobile\_num": 86479265,          "email": "kanz18@gmail.com",          "profile\_pic": "https://picsum.photos/200/300"      } | POST |  |
| Login | SELECT password from foodiesg\_db.account\_info WHERE username = ? | /login | {      "username": "TheRook",      "password": "123456"  } | POST |  |
| Display user information in profile page | SELECT \* from foodiesg\_db.account\_info WHERE user\_id = ? | /account/:user\_id | N.A | GET |  |
| Change user Information (and change profile\_pic) | UPDATE account\_info SET username = ?, mobile\_num = ?, email = ?, profile\_pic = ? WHERE user\_id = ? | /accounts/:user\_id | {  "username": "cHickenNoodle",  "mobile\_num": 91619082,  "email": "jabarsiqi@gmail.com",  "profile\_pic": "https://picsum.photos/400/500"    } | PUT |  |
| Delete an account | DELETE from account\_info WHERE user\_id = ? | /accounts/:user\_id | N.A | DELETE |  |
| Display All Restaurants | SELECT \* from foodiesg\_db.restaurant | /restaurants | N.A | GET |  |
| Display Top 5 Best Restaurants | SELECT \* from foodiesg\_db.restaurant WHERE overall\_rating > 3 ORDER BY overall\_rating DESC LIMIT 5 | /best | N.A | GET |  |
| Display All reviews | SELECT \* from foodiesg\_db.reviews | /reviews | N.A | GET |  |
| Display reviews written by logged in user in their profile page (Newest – oldest) | SELECT restaurant\_name, review\_qn\_one, review\_qn\_two, rating, date\_posted FROM foodiesg\_db.reviews WHERE review\_id = ? ORDER BY date\_posted DESC | /userreview/:review\_id | N.A | GET |  |
| Add a review | INSERT INTO reviews (restaurant\_id, restaurant\_name, review\_qn\_one, review\_qn\_two, username, rating, date\_posted, picture) VALUES (?, ?, ?, ?, ?, ?, ?, ?) | /reviews | {          "username": "TestUserr",          "restaurant\_id": 1,          "restaurant\_name": "Dancing Crab",          "review\_qn\_one": "Not good at all",          "review\_qn\_two": "nice place",          "rating": 3.0,          "picture": "https://c8.staticflickr.com/6/5804/31120044871\_c8c276cea4\_o.jpg"      } | POST |  |
| Update/Change Review | UPDATE reviews SET review\_qn\_one = ?, review\_qn\_two = ?, username = ?, rating = ?, date\_posted = ?, picture = ? WHERE review\_id = ? | /reviews/:review\_id | {          "review\_qn\_one": "I love their food! So tasty!",          "review\_qn\_two": "cool place to eat man!",          "username": "TestUser3",          "rating": 4,          "picture": "https://c8.staticflickr.com/6/5804/31120044871\_c8c276cea4\_o.jpg"      } | PUT |  |
| Delete a review | DELETE from reviews WHERE review\_id = ? | /reviews/:review\_id | N.A | DELETE |  |
| Display comments to reviews | SELECT \* from foodiesg\_db.comments WHERE reviewID = ? | /comments/review/:reviewID | N.A | GET |  |
| Add a comment to a review | INSERT INTO comments (user\_name, comment, reviewID, date) VALUES (?, ?, ?, ?) | /comments | {          "user\_name": "TestUser",          "comment": "Yes, you are very right!!!",          "reviewID": 1      } | POST |  |
| Delete a comment | DELETE from comments WHERE id\_comments = ? | /comments/:id\_comments | N.A | DELETE |  |
| Bookmark a restaurant | INSERT INTO bookmark (id\_user, bookmarked\_res, res\_id) VALUES (?, ?, ?) | /bookmarks | {          "id\_user": 3,          "bookmarked\_res": "Dancing Crab",          "res\_id": 1      } | POST |  |
| Display bookmarked restaurant | SELECT \* from foodiesg\_db.bookmark WHERE id\_user = ? | /bookmarks/user/:id\_user | N.A | GET |  |
| Remove a bookmark | DELETE from bookmark WHERE bookmark\_id\_ = ? | /bookmarks/:bookmark\_id\_ | N.A | DELETE |  |
| See similar users who bookmarked same restaurant | SELECT bookmark.bookmarked\_res, account\_info.username, account\_info.profile\_pic FROM foodiesg\_db.bookmark LEFT JOIN foodiesg\_db.account\_info ON id\_user = user\_id WHERE bookmark.bookmarked\_res = ? LIMIT 3 | /userbookmark | {  "bookmarked\_res": "Dancing Crab"  } | POST |  |
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