«Component»
Client

GET Users

DELETE userByUsername

POST User

PATCH UserQuizResult

POST /users/login

GET UsersById

«Component»
User Service

GET /users
{
    username: str
    password: str
}

Purpose: Get an array of users
and their data

Errors: unable to connect to
DB, DB doesn't exist

DELETE /users?username
{
    username: str
}

Purpose: delete a user in the
DB by username

Side-effects: user/s with that
username are deleted

Errors: DB doesn't exist, unable
to connect to DB, no user
found, user can't be deleted

POST /users
{
    username: str
    email: str
    password: str
}

Purpose: create a new user in
the DB

Side-effects: new user Created

Errors: DB doesn't exist, unable
to connect to DB, no password
provided, new user failed to
create

PATCH /users/:id/quiz
{
    userId: str
    answerDict: [str: int]
}

Purpose: Update a user in the
DB with the newest quiz results

Side-effects: user's quiz results
updated/added

Errors: DB doesn't exist, unable
to connect to DB, no/invalid ID
provided, no answers provided

POST /users/login
{
    username: str
    password: str
}

Purpose: verifying the
username has that password

Errors: DB doesn't exist, no
username and
password, invalid password,
unable to connect to DB, user
not found

GET /users
{
    userId: str
}

Purpose: get a single user by
userId

Errors: Errors: unable to
connect to DB, DB doesn't
exist, no matching ID found