```javascript
1  // Module: IT8904 BDD
2  // Assignment 1 - CA1
3  // Student No: P7461072
4  // Student Name: ONG WEI CHUAN
5
6  // Filename: genre.js
7  // Directory: P7461072_BDD_CA1/model/
8  // This file is under the model layer and is focused in
9  // processing of data between Controller and Database
10 // Controller <--> Model (genre.js) <--> Database
11 // This file is to connect to mySQL and write fctions
12 // to query the database table and retrieve the results.
13
14 var db = require("./databaseConfig");
15
16 var genreDB = {
17   // POST /genre - Add new genre
18   addGenre: function (genre_name, genre_description, callback) {
19     var dbConn = db.getConnection(); //get configuration settings of mySQL DB
20
21     // Callback function to handle result from connection
22     dbConn.connect(function (err) {
23       // Error from connection detected
24       if (err) {
25         console.log("genre DB connect error msg: " + err);
26         return callback(err, null);
27       }
28       // Successful connection, proceed to do the query
29       else {
30         console.log("Database Connected Successfully!");
31
32         var sql = "insert into genre(genre_name,genre_description) values(?,?)";
33         dbConn.query(
34           sql,
35           [genre_name, genre_description],
36           function (err, results) {
37             dbConn.end(); //End the connection
38             console.log("genre sql error: " + err);
39             console.log("genre sql results: " + JSON.stringify(results));
40
41             return callback(err, results);
42           }
43         ); //dbConn.query
44       }
45     }); //dbConn.connect
46   }, //addGenre
47
48   // GET /genre - Retrieve all genre
49   getGenre: function (callback) {
50     var dbConn = db.getConnection(); //get configuration settings of mySQL DB
51
52     // Callback function to handle result from connection
53     dbConn.connect(function (err) {
54       // Error from connection detected
55       if (err) {
56         console.log("genre DB connect error msg: " + err);
57         return callback(err, null);
58       }
59       // Successful connection, proceed to do the query
```

```
        else {
           console.log("Database Connected Successfully!");

           var sql = "select * from genre";
           dbConn.query(
             sql,
             [],
             function (err, results) {
               dbConn.end(); //End the connection
               console.log("genre sql error: " + err);
               console.log("genre sql results: " + JSON.stringify(results));

               return callback(err, results);
             }
           ); //dbConn.query
        }
     }); //dbConn.connect
   }, //getGenre
}; //genreDB

module.exports = genreDB;
```