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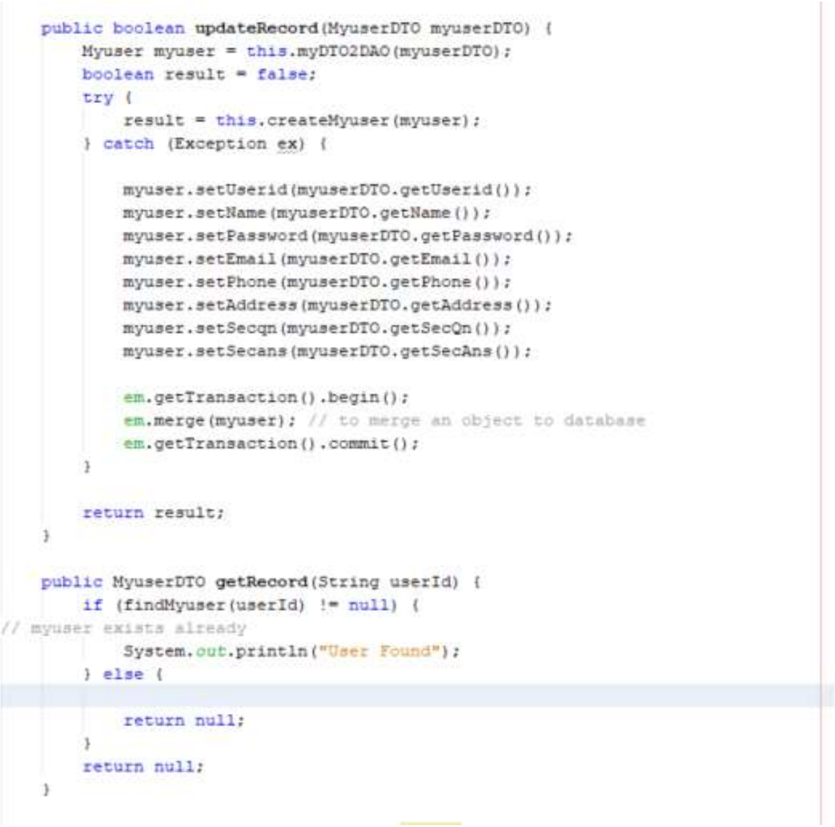
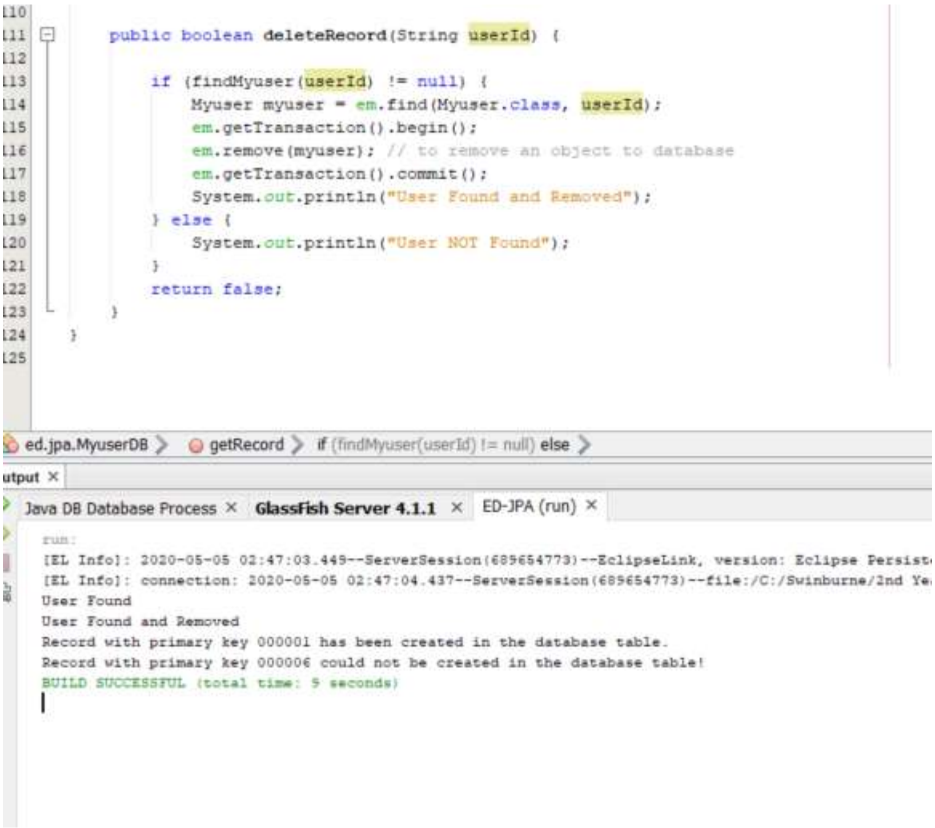
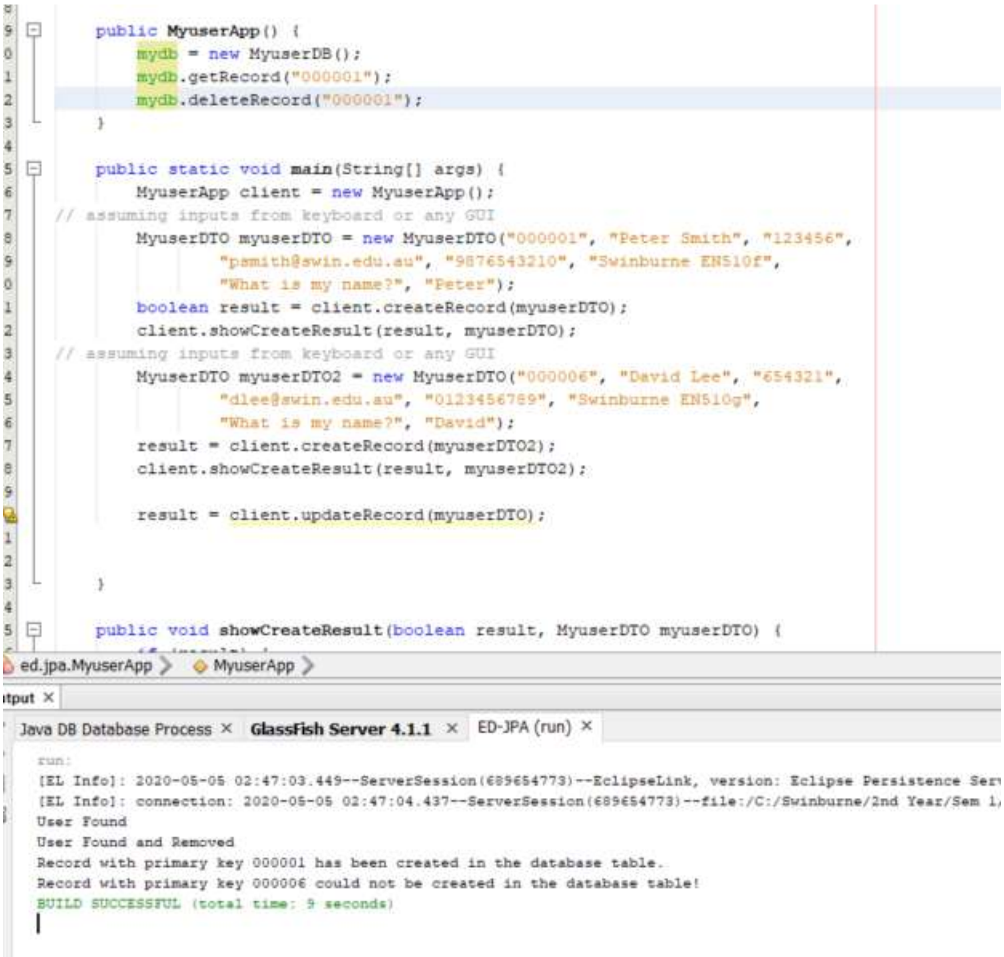


```java
    public boolean updateRecord(MyuserDTO myuserDTO) {
        Myuser myuser = this.myDTO2DAO(myuserDTO);
        boolean result = false;
        try {
            result = this.createMyuser(myuser);
        } catch (Exception ex) {

            myuser.setUserid(myuserDTO.getUserid());
            myuser.setName(myuserDTO.getName());
            myuser.setPassword(myuserDTO.getPassword());
            myuser.setEmail(myuserDTO.getEmail());
            myuser.setPhone(myuserDTO.getPhone());
            myuser.setAddress(myuserDTO.getAddress());
            myuser.setSecqn(myuserDTO.getSecQn());
            myuser.setSecans(myuserDTO.getSecAns());

            em.getTransaction().begin();
            em.merge(myuser); // to merge an object to database
            em.getTransaction().commit();
        }

        return result;
    }

    public MyuserDTO getRecord(String userId) {
        if (findMyuser(userId) != null) {
// myuser exists already
            System.out.println("User Found");
        } else {

            return null;
        }
        return null;
    }
```



```java
    public boolean deleteRecord(String userId) {

        if (findMyuser(userId) != null) {
            Myuser myuser = em.find(Myuser.class, userId);
            em.getTransaction().begin();
            em.remove(myuser); // to remove an object to database
            em.getTransaction().commit();
            System.out.println("User Found and Removed");
        } else {
            System.out.println("User NOT Found");
        }
        return false;
    }
}
```

```
run:
[EL Info]: 2020-05-05 02:47:03.449--ServerSession(689654773)--EclipseLink, version: Eclipse Persist
[EL Info]: connection: 2020-05-05 02:47:04.437--ServerSession(689654773)--file:/C:/Swinburne/2nd Ye
User Found
User Found and Removed
Record with primary key 000001 has been created in the database table.
Record with primary key 000006 could not be created in the database table!
BUILD SUCCESSFUL (total time: 5 seconds)
```



```
    public MyuserApp() {
        mydb = new MyuserDB();
        mydb.getRecord("000001");
        mydb.deleteRecord("000001");
    }

    public static void main(String[] args) {
        MyuserApp client = new MyuserApp();
// assuming inputs from keyboard or any GUI
        MyuserDTO myuserDTO = new MyuserDTO("000001", "Peter Smith", "123456",
                "psmith@swin.edu.au", "9876543210", "Swinburne EN510f",
                "What is my name?", "Peter");
        boolean result = client.createRecord(myuserDTO);
        client.showCreateResult(result, myuserDTO);
// assuming inputs from keyboard or any GUI
        MyuserDTO myuserDTO2 = new MyuserDTO("000006", "David Lee", "654321",
                "dlee@swin.edu.au", "0123456789", "Swinburne EN510g",
                "What is my name?", "David");
        result = client.createRecord(myuserDTO2);
        client.showCreateResult(result, myuserDTO2);

        result = client.updateRecord(myuserDTO);


    }

    public void showCreateResult(boolean result, MyuserDTO myuserDTO) {
```

```
run:
[EL Info]: 2020-05-05 02:47:03.449--ServerSession(689654773)--EclipseLink, version: Eclipse Persistence Serv
[EL Info]: connection: 2020-05-05 02:47:04.437--ServerSession(689654773)--file:/C:/Swinburne/2nd Year/Sem 1/
User Found
User Found and Removed
Record with primary key 000001 has been created in the database table.
Record with primary key 000006 could not be created in the database table!
BUILD SUCCESSFUL (total time: 9 seconds)
```

ORM means object relation mapping which helps to convert and store the object type data into the data base directly it this case Myuser class doing the ORM work.

In lab 02 Myuser class worked as the Data Transfer Object **DTO,** but in here it worked as the **ORM**

I this lab we directly access the data base to convert and store data so we use different domain for that.