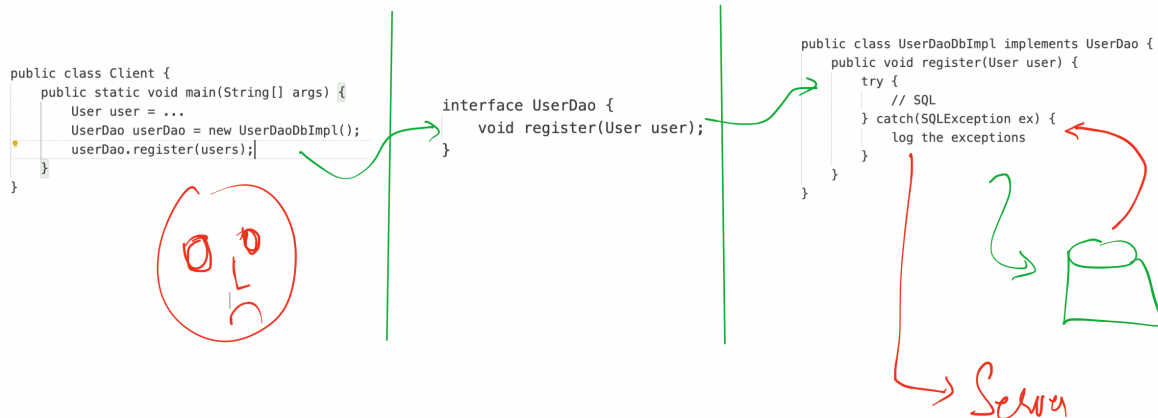
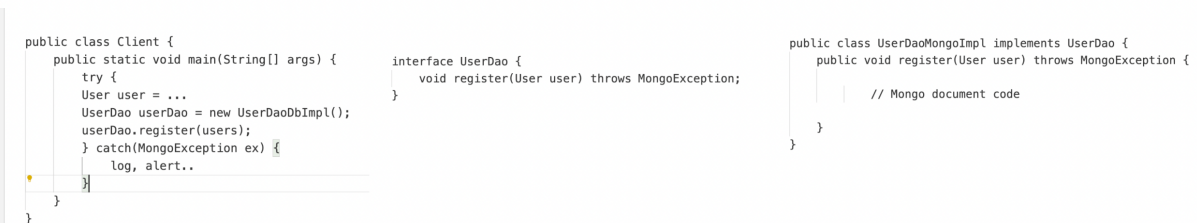
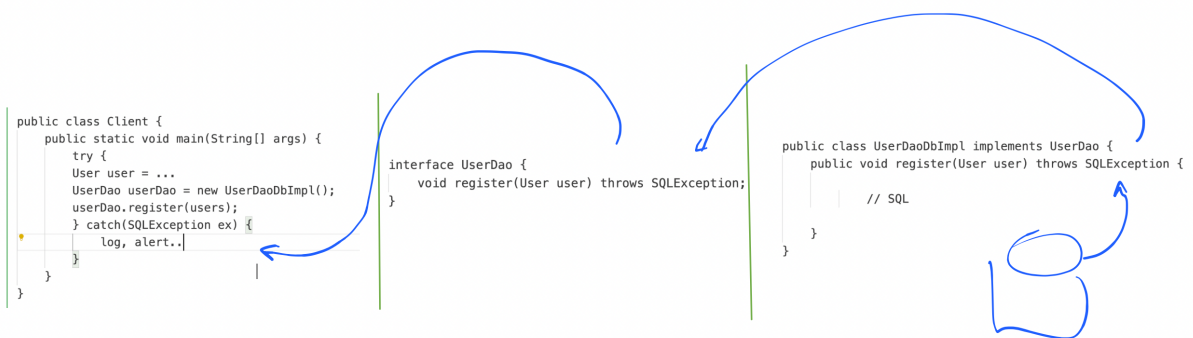


Case 1:

Client has no clue about exceptions occurred on server side/implementation side



Case 2: propagating the exceptions



More problems:

- 1) No abstraction, exposing the backend details like SQLException, infact the exception will also have table name, column names,,,
- 2) Exception messages are not explanatory
ORA9001: unique key constraint violation exception

Case 3: Prefer using User defined exception classes for abstraction

```
public class Client {  
    public static void main(String[] args) {  
        try {  
            User user = ...  
            UserDao userDao = new UserDaoDbImpl();  
            userDao.register(user);  
        } catch (PersistenceException ex) {  
            log, alert..  
        }  
    }  
}
```

```
class PersistenceException extends Exception {  
    ...  
}  
  
interface UserDao {  
    void register(User user) throws PersistenceException;  
}
```

```
public class UserDaoDbImpl implements UserDao {  
    public void register(User user) throws PersistenceException {  
        try {  
            // SQL  
        } catch (SQLException ex) {  
            if (ex.getErrorCode() == 1584) {  
                throw new PersistenceException("User with " + user.getMail() + " already exists!");  
            }  
        }  
    }  
}  
  
public class UserDaoMongoImpl implements UserDao {  
    public void register(User user) throws MongoException {  
        try {  
            // SQL  
        } catch (MongoException ex) {  
            if (ex.getErrorCode() == 9813) {  
                throw new PersistenceException("User with " + user.getMail() + " already exists!");  
            }  
        }  
    }  
}
```