

## FIT2095 e-Business software technologies - S2 2021

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## Question 1

Complete

Mark 10.00 out of 10.00

## Question 1

Username and password are needed to get inside of database and the intruder get the login request and changes the POST pass parameter to password[\$ne]=null.

When Express processes the x-www-form-urlencoded request body, this will be parsed into the object {username: 'admin', password: {\$ne: null}} and passed to the MongoDB query:

```
db.collection('users').findOne({username:user,password:pass},function(err,result){  
  
  if(result!==null){  
  
    res.redirect('/');  
  
  }else{  
  
    res.redirect('/login');  
  
  }  
  
});
```

In this way, the intruder can get access to the database as long as the password is not empty.

Thus, he can just type anything as the password, and he will become an administrator of the database and retrieve objects from the database.

Mitigation: turn the username and password into the string datatype every times.

```
db.collection("users").findOne(  
  
{  
  
  username: String(user),  
  
  password: String(pass)  
  
},  
  
function(err, result){  
  
  if(result !==null){
```



```
res.redirect("/");
}else{
```

```
res.redirect("/login");
```

```
}
```

```
});
```

Comment:

Question 2

Complete

Not graded

Question 2

**Advantages:**

**1. Fast login**

Due to customer already login in Facebook, most of websites or apps make the login with Facebook without register

**2. One login less to remember**

When they use a Facebook login, they don't have to remember password of account, they just need to remember the Facebook password

**Disadvantages:**

**1. Excluding consumers who are not use Facebook**

Old people or new generation they may not use Facebook, and some counties does not allow Facebook join their internet, then they lose a lot of target consumers.

**2. Security issues**

While the Facebook account be hacked, hacker can access every websites or apps which using Facebook login

Question 3

Complete

Not graded

Question 3

**Advantages:**

**1. Scalability**

As data grow in size and complexity, a Firebase can grow along with it, no need to worry about the size of data

**2. Flexibility of work practices**

Due to the database is online, people can access database and get the data while going to work, at home or any other places

**Disadvantages:**

**1. High performance**

Firebase does not support high performance, but MongoDB provides high performance for high-traffic applications . Therefore, Firebase is suitable for small scale applications, while MongoDB is better for large scale applications

**2. MongoDB Atlas**

With the help of MongoDB Atlas, MongoDB can work online too, but firebase is pure cloud database

Question 4



Not answered

Not graded

Question 4

Question **5**

Not answered

Not graded

Question 5

Question **6**

Not answered

Not graded

Question 6



Question **7**

Not answered

Not graded

Question 7

Question **8**

Not answered

Not graded

Question 8

