## IT314 Software Engineering



## Lab- 8 Report

# **Central Mess Management Software Group: G32**

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## We are going to test 'login' module of our backend using the frameworks like mocha & chai

### Login function which we are going to test:

```
app.post('/login', async (req, res) => {
    try {
        const username = req.body.username;
        const password = req.body.password;
        const user = await User.findOne({ username });
        // const isMatch = await bcrypt.compare(password, user.password);
        if (user && user.password === password && user.role === req.body.role)
{
            // req.session.user_id = user._id;
            res.status(201).render('home');
        } else {
            res.status(400).send('Invalid Login Details');
        }
    } catch (error) {
        res.status(400).send('Invalid Login Details');
    }
});
```

#### **Test Cases:**

- 1) User valid
- 2) User doesn't exist
- 3) Password invalid
- 4) Role invalid
- 5) Credentials invalid
- 6) Null username

### **Testing Code (Javascript):**

```
let chai = require("chai");
let chaiHttp = require("chai-http");
chai.should();
chai.use(chaiHttp);
describe('Testing route /login', () => {
    const host = `http://localhost:3000`;
   const path = "/login";
    it("User valid", (done) => {
        chai
            .request(host)
            .post(path)
                username: 'deep9', password: 'working', role: 'manager'
            .end(function (error, response, body) {
                response.should.have.status(201);
                done();
            });
        chai
            .request(host)
            .post(path)
                username: 'gaurangggg', password: 'working', role: 'manager'
            .end(function (error, response, body) {
                response.should.have.status(400);
                done();
            });
            .request(host)
```

```
.post(path)
            username: 'deep9', password: 'working22', role: 'manager'
        .end(function (error, response, body) {
            response.should.have.status(400);
            done();
        });
});
    chai
        .request(host)
        .post(path)
            username: 'vrund1', password: 'T4#s9A', role: 'cadet'
        .end(function (error, response, body) {
            response.should.have.status(400);
           done();
   chai
        .request(host)
        .post(path)
            username: 'deep9', password: 'working333', role: 'cadet'
        .end(function (error, response, body) {
            response.should.have.status(400);
           done();
    chai
        .request(host)
        .post(path)
            username: '', password: 'working', role: 'manager'
```

```
})
.end(function (error, response, body) {
    response.should.have.status(400);
    done();
});
});
```

### Output: