IT314: Software Engineering

Course Project Lab 8

Group: 15 Conference Management System

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Testing for User:

Sr no.	Test cases	Expected outcome	Actual outcome

1	`email: "shreeji@gmail.com",`
	`password: "Shreeji@01",`
	`role: "admin",`
		Valid login	Valid login

2	Wrong role
	`email: "shreeji@gmail.com",`
	`password: "Shreeji@01",`
	`role: "attendee",`
		Invalid login	Invalid login

3	`username: "harsh@test",`
	`email: "harsh@test.com",`
	`password: "Harsh@test1",`
	`role: "attendee",`
		Valid signup	Valid signup

4	Invalid email format
	`username: "harsh@test",`
	`email: "harshtest",`
	`password: "Harsh@test1",`
	`role: "attendee",`
		Invalid signup	Invalid signup

5	`email: "harsh@test.com",` `password: "Harsh@test2",`	Valid update	Valid update

6	Wrong email
	`email: "harsh@testttttt.com",`
	`password: "Harsh@test2",`
		Invalid update	Invalid update

7	`email: "harsh@test.com",`	Valid delete	Valid delete

Content of {User.test.js}

```
process.env.NODE_ENV = "test";
const chai = require("chai");
const chaiHttp = require("chai-http");
const app = require("../server");
const expect = chai.expect;
chai.use(chaiHttp);

// test case 1: valid admin login
-----------------------------------------

describe("User", () => {
  // login module
  describe("POST /auth/user/login", () => {
    it("it should login a user", (done) => {
      chai
        .request(app)
        .post("/auth/user/login")
        .send({
          email: "shreeji@gmail.com",
          password: "Shreeji@01",
          role: "admin",
        })
        .end((err, res) => {
          expect(res).to.have.status(200);
          expect(res.body).to.be.a("object");
          expect(res.body).to.have.property("email");
          expect(res.body).to.have.property("role");
          expect(res.body).to.have.property("token");
          done();
        });
    });
  });
});
```

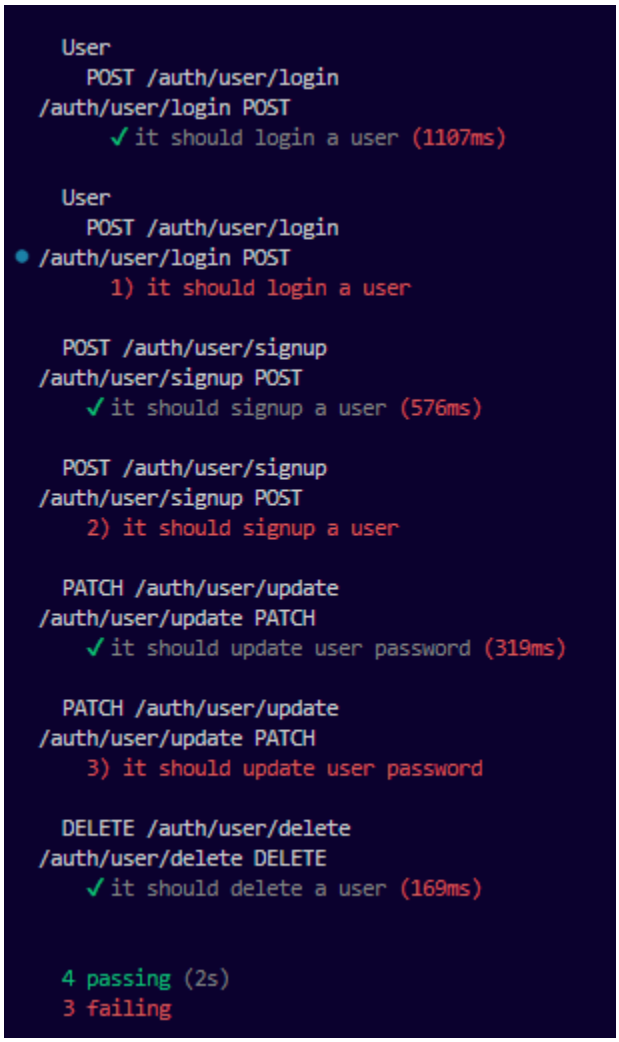
```
// test case 2: invalid role login
-----------------------------------------

describe("User", () => {
  // login module
  describe("POST /auth/user/login", () => {
    it("it should login a user", (done) => {
      chai
        .request(app)
        .post("/auth/user/login")
        .send({
          email: "shreeji@gmail.com",
          password: "Shreeji@01",
          role: "attendee",         // invalid role, role changed to
attendee
        })
        .end((err, res) => {
          expect(res).to.have.status(200);
          expect(res.body).to.be.a("object");
          expect(res.body).to.have.property("email");
          expect(res.body).to.have.property("role");
          expect(res.body).to.have.property("token");
          done();
        });
    });
  });
});

// test case 3: valid signup ----------------------------------------

  describe("POST /auth/user/signup", () => {
    it("it should signup a user", (done) => {
      chai
        .request(app)
        .post("/auth/user/signup")
        .send({
          username: "harsh@test",
```

```
          email: "harsh@test.com",
          password: "Harsh@test1",
          role: "attendee",
        })
        .end((err, res) => {
          expect(res).to.have.status(201);
          expect(res.body).to.be.a("object");
          expect(res.body).to.have.property("email");
          expect(res.body).to.have.property("role");
          expect(res.body).to.have.property("token");
          done();
        });
    });
  });

// test case 4: invalid signup ----------------------------------------

  describe("POST /auth/user/signup", () => {
    it("it should signup a user", (done) => {
      chai
        .request(app)
        .post("/auth/user/signup")
        .send({
          username: "harsh@test",
          email: "harshtest",          // invalid email address
          password: "Harsh@test1",
          role: "attendee",
        })
        .end((err, res) => {
          expect(res).to.have.status(201);
          expect(res.body).to.be.a("object");
          expect(res.body).to.have.property("email");
          expect(res.body).to.have.property("role");
          expect(res.body).to.have.property("token");
          done();
        });
    });
```

```
  });

// test case 5: valid update ----------------------------------------

  describe("PATCH /auth/user/update", () => {
    it("it should update user password", (done) => {
      chai
        .request(app)
        .patch("/auth/user/update")
        .send({
          email: "harsh@test.com",
          password: "Harsh@test2",
        })
        .end((err, res) => {
          expect(res).to.have.status(200);
          expect(res.body).to.be.a("object");
          expect(res.body).to.have.property("user");
          done();
        });
    });
  });

// test case 6: invalid update ----------------------------------------

describe("PATCH /auth/user/update", () => {
  it("it should update user password", (done) => {
    chai
      .request(app)
      .patch("/auth/user/update")
      .send({
        email: "harsh@testtttt.com",      // wrong email address
        password: "Harsh@test2",
      })
      .end((err, res) => {
        expect(res).to.have.status(200);
        expect(res.body).to.be.a("object");
        expect(res.body).to.have.property("user");
```

```
        done();
      });
  });
});

// test case 7: valid delete ----------------------------------------

  describe("DELETE /auth/user/delete", () => {
    it("it should delete a user", (done) => {
      chai
        .request(app)
        .delete("/auth/user/delete")
        .send({
          email: "harsh@test.com",
        })
        .end((err, res) => {
          expect(res).to.have.status(200);
          expect(res.body).to.be.a("object");
          expect(res.body).to.have.property("user");
          done();
        });
    });
  });
```

Result of test cases and execution time:



We got all the test cases evaluated correctly. Our frontend & backend will verify the email & password details accurately and will notify the user accordingly.

Testing for Organization:

Sr no.	Test cases	Expected outcome	Actual outcome
1	`email: "org1@abc.com",` `password: "Org@1234",`	Valid login	Invalid login

2	`orgname: "ABC",`
	`email: "org1@abc.com",`
	`password: "Org@1234",`
		Valid signup	Valid signup

3	`.get("/auth/org")`	Get all org	Invalid output
4	`email: "org1@abc.com",`	Valid delete	Valid delete

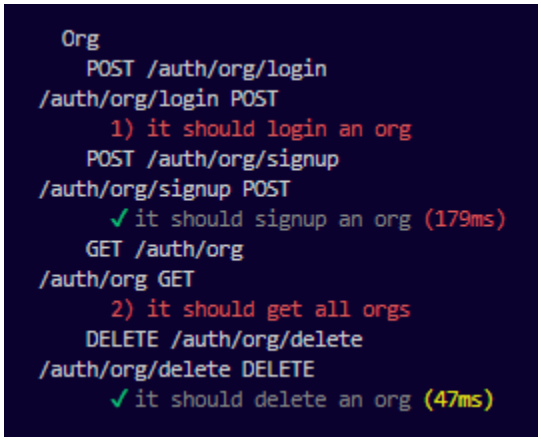
Content of {Org.test.js}

```
process.env.NODE_ENV = "test";
const chai = require("chai");
const chaiHttp = require("chai-http");
const app = require("../server");
const { describe } = require("mocha");
const expect = chai.expect;
chai.use(chaiHttp);

describe("Org", () => {
  // login org
  describe("POST /auth/org/login", () => {
    it("it should login an org", (done) => {
      chai
        .request(app)
        .post("/auth/org/login")
        .send({
          email: "org1@abc.com",
```

```
        password: "Org@1234",
      })
      .end((err, res) => {
        expect(res).to.have.status(200);
        expect(res.body).to.be.a("object");
        expect(res.body).to.have.property("email");
        done();
      });
  });
});

// signup org
describe("POST /auth/org/signup", () => {
  it("it should signup an org", (done) => {
    chai
      .request(app)
      .post("/auth/org/signup")
      .send({
        orgname: "ABC",
        email: "org1@abc.com",
        password: "Org@1234",
      })
      .end((err, res) => {
        expect(res).to.have.status(201);
        expect(res.body).to.be.a("object");
        expect(res.body).to.have.property("email");
        done();
      });
  });
});

// get all orgs
describe("GET /auth/org", () => {
  it("it should get all orgs", (done) => {
    chai
      .request(app)
      .get("/auth/org")
```

```
        .end((err, res) => {
          expect(res).to.have.status(200);
          expect(res.body).to.be.a("array");
          done();
        });
    });
  });

  // delete org
  describe("DELETE /auth/org/delete", () => {
    it("it should delete an org", (done) => {
      chai
        .request(app)
        .delete("/auth/org/delete")
        .send({
          email: "org1@abc.com",
        })
        .end((err, res) => {
          expect(res).to.have.status(200);
          expect(res.body).to.be.a("object");
          expect(res.body).to.have.property("org");
          done();
        });
    });
  });
});
```

Result of test cases and execution time:



We got to know about 2 invalid errors due to test cases. There are some implementation issues for them, which will be solved at the earliest by the team.