Backend:

**1-Controller.js**

const pool = require("../../db/dbUniversity");

const queries = require("./quaries");

const authentication = (req, res) => {

const { username, password } = req.body;

pool.query(queries.authentication, [username, password], (err, result) => {

if (err) return res.status(500).json({ message: "Internal Server Error" });

const UserExsts = result.rows.length;

if (!UserExsts) {

return res

.status(401)

.json({ message: "There is an Error in your information" });

}

return res.status(200).json(result.rows);

});

};

const studentInformation = (req, res) => {

const { id } = req.body;

pool.query(queries.studentInformation, [ id ], (err, result) => {

if (err) return res.status(500).json({ message: "Internal Server Error"});

const UserInformation = result.rows.length;

if(!UserInformation){

return res.status(201).json({message: "There is no information"})

}

return res.status(200).json(result.rows);

})

}

const studentCourse = (req, res) => {

const { id } = req.params;

pool.query(queries.studentCourse, [ id ], (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const UserInformation = result.rows.length;

if(!UserInformation){

return res.status(201).json({ message: "There is no courses"})

}

return res.status(200).json(result.rows)

})

}

const getDoctorSubDepartment = (req, res) => {

const { sub\_department\_id } = req.params;

pool.query(queries.getDoctorSubDepartment, [ sub\_department\_id ], (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const UserInformation = result.rows.length;

if(!UserInformation){

return res.status(201).json({ message: "There is no Doctors "})

}

return res.status(200).json(result.rows)

})

}

const getCourseSubDepartment = (req, res) => {

const { sub\_department\_id } = req.params;

pool.query(queries.getCourseSubDepartment, [ sub\_department\_id ], (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const CourseInformation = result.rows.length;

if(!CourseInformation){

return res.status(201).json({ message: "There is no Courses "})

}

return res.status(200).json(result.rows)

})

}

const getDoctorInformation = (req, res) => {

const { doctor\_id } = req.params;

if (isNaN(+doctor\_id)) {

console.log('Not a valid number');

return res.status(404).json({ message: "Invalid doctor ID" });

}

pool.query(queries.getDoctorInformation, [parseInt(doctor\_id, 10)], (err, result) => {

if (err) {

console.error('Database Error:', err);

return res.status(500).json({ message: "Internal Server Error" });

}

const doctorInformation = result.rows.length;

if (!doctorInformation) {

return res.status(404).json({ message: "No information found for the given doctor ID" });

}

return res.status(200).json(result.rows);

});

};

const getDoctorCertificates = (req, res) => {

const { doctor\_id } = req.params;

pool.query(queries.getDoctorCertificates, [ doctor\_id ], (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const CertificateInformaiton = result.rows.length;

if(!CertificateInformaiton){

return res.status(201).json({ message: "There is no information"})

}

return res.status(200).json(result.rows);

})

}

const getMaterilaFiles = (req, res) => {

const { course\_id } = req.params;

pool.query(queries.getMaterilaFiles, [ course\_id ], (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const FilesInormation = result.rows.length;

if(!FilesInormation){

return res.status(201).json({ message: "There is no information"})

}

return res.status(200).json(result.rows);

})

}

const registration = (req, res) => {

pool.query(queries.registration, (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const Files = result.rows.length;

if(!Files){

return res.status(201).json({ message: "There is no Files" })

}

return res.status(200).json(result.rows);

})

}

const otherdoctor = (req, res) => {

const { sub\_department\_id ,doctor\_id } = req.params;

pool.query(queries.otherdoctor, [ sub\_department\_id,doctor\_id ], (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const CertificateInformaiton = result.rows.length;

if(!CertificateInformaiton){

return res.status(201).json({ message: "There is no information"})

}

return res.status(200).json(result.rows);

})

}

const departments = (req, res) => {

pool.query(queries.departments, (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const DepartmentsInformaiton = result.rows.length;

if(!DepartmentsInformaiton){

return res.status(201).json({ message: "There is no information"})

}

return res.status(200).json(result.rows);

})

}

const sub\_department = (req, res) => {

const { department\_id } = req.params

pool.query(queries.sub\_department, [ department\_id ], (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const SubDepartmentsInformaiton = result.rows.length;

if(!SubDepartmentsInformaiton){

return res.status(201).json({ message: "There is no information"})

}

return res.status(200).json(result.rows);

})

}

const materials = (req, res) => {

const { sub\_department\_id } = req.params

pool.query(queries.materials, [ sub\_department\_id ], (err, result) => {

if(err) return res.status(500).json({ message: "Internal Server Error"});

const materialsInformation = result.rows.length;

// if(materialsInformation === 0){

// return res.status(200).json({ message: 'There is no Materials in this department'})

// }

if(!materialsInformation){

return res.status(201).json({ message: "There is no information"})

}

return res.status(200).json(result.rows);

})

}

module.exports = {

authentication,

studentInformation,

studentCourse,

getDoctorSubDepartment,

getCourseSubDepartment,

getDoctorInformation,

getDoctorCertificates,

getMaterilaFiles,

registration,

otherdoctor,

departments,

sub\_department,

materials

};

**2-quaires:**

const authentication = `

SELECT a.username, a.password, a.student\_id, s.sub\_dep\_id

FROM authentication a

JOIN student s on a.student\_id = s.student\_id

WHERE a.username=$1 and a.password=$2

`;

const studentInformation = `

SELECT s.student\_id, s.student\_name, s.enrollment\_date\_at\_uni, s.gender, d.department\_name, d.dep\_boss, sd.name, sd.years, sd.hours, sd.cost\_for\_hour, sd.sub\_dep\_boss

FROM student s

JOIN department d on s.dep\_id = d.dep\_id and s.student\_id = $1

JOIN sub\_department sd on s.sub\_dep\_id = sd.sub\_dep\_id and s.student\_id = $1;

`;

const studentCourse = `

SELECT m.name as Course, m.code as Course\_Code, d.doctor\_name as Doctor, m.lap\_or\_not as Type, am.hall\_number as Hall\_Number

FROM booking\_online bo

JOIN available\_material am ON bo.id\_available\_material = am.id\_available\_material

JOIN material m ON am.material\_id = m.material\_id

JOIN doctor d ON am.doctor\_id = d.doctor\_id

WHERE bo.student\_id = $1;

`;

const getDoctorSubDepartment = `

SELECT d.doctor\_id, d.doctor\_name, d.office\_location, d.years\_of\_experience, d.gender

FROM doctor\_sub\_department dsd

JOIN doctor d on d.doctor\_id = dsd.doctor\_id

WHERE dsd.sub\_dep\_id = $1;

`

const getCourseSubDepartment = `

select material\_id, name as course\_Name, code as Course\_Code, lap\_or\_not, hours from material where sub\_dep\_id = $1;

`;

const getDoctorInformation = `

SELECT \* FROM doctor where doctor\_id = $1;

`

const getDoctorCertificates = `

SELECT c.\* FROM certificate c

JOIN doctor d ON d.doctor\_id = c.doctor\_id

where c.doctor\_id = $1;

`

const getMaterilaFiles = `

SELECT file\_url, description from file\_source where material\_id = $1;

`

const registration = `

SELECT am.id\_available\_material, am.available\_seats, am.status, am.build\_number, am.hall\_number, m.name, d.doctor\_name, d.gender from available\_material am

JOIN material m ON am.material\_id = m.material\_id AND m.sub\_dep\_id = 1

JOIN doctor d ON am.doctor\_id = d.doctor\_id;

`

const otherdoctor = `

SELECT d.doctor\_id, d.doctor\_name, d.office\_location, d.years\_of\_experience, d.gender

FROM doctor\_sub\_department dsd

JOIN doctor d on d.doctor\_id = dsd.doctor\_id

WHERE dsd.sub\_dep\_id = $1 and d.doctor\_id <> $2;

`

const departments = `

SELECT \* FROM department order by dep\_id;

`

const sub\_department = `

select sub\_dep\_id, name, years, hours, cost\_for\_hour, sub\_dep\_boss from sub\_department where dep\_id = $1 order by years;

`

const materials = `

select material\_id, name as material\_name, code as material\_code, lap\_or\_not, hours from material where sub\_dep\_id = $1;

`

module.exports = {

authentication,

studentInformation,

studentCourse,

getDoctorSubDepartment,

getCourseSubDepartment,

getDoctorInformation,

getDoctorCertificates,

getMaterilaFiles,

registration,

otherdoctor,

departments,

sub\_department,

materials

};