**Requirements**

1. In order for the project to work I installed the following modules: express, body-parser, mysql2, pug, path, csvtojson, cookie-parser, nodemon.
2. Establishment of the data base:

<http://localhost:3000/createDBtables>

<http://localhost:3000/insertGroups>

<http://localhost:3000/insertUsers>

<http://localhost:3000/insertCourts>

<http://localhost:3000/insertUserGroups>

<http://localhost:3000/showGroups>

<http://localhost:3000/showUsers>

<http://localhost:3000/showCourts>

<http://localhost:3000/showUserGroups>

<http://localhost:3000/dropDBtables>

routs:

////////////initialize db////////////

app.get('/createDBtables', [CRUDdb.createGroupsTable, CRUDdb.createUsersTable, CRUDdb.createUserGroupsTable, CRUDdb.createCourtsTable]);

//insert data

app.get('/insertGroups', CRUDdb.InsertGroupsData);

app.get('/insertUsers', CRUDdb.InsertUsersData);

app.get('/insertCourts', CRUDdb.InsertCourtsData);

app.get('/insertUserGroups', CRUDdb.InsertUserGroupsData);

//show tables

app.get('/showGroups', CRUDdb.ShowGroupsTable);

app.get('/showUsers', CRUDdb.ShowUsersTable);

app.get('/showCourts', CRUDdb.ShowCourtsTable);

app.get('/showUserGroups', CRUDdb.ShowUserGroupsTable);

//drop tables

app.get('/dropDBtables', [CRUDdb.dropUserGroupsTable, CRUDdb.dropUsersTable, CRUDdb.dropCourtsTable, CRUDdb.dropGroupsTable]);

1. Create tables syntax:

const createGroupsTable = (req,res,next)=>{

    var Q1 = "CREATE TABLE IF NOT EXISTS groups\_details (group\_name varchar(255) primary key, city ENUM('באר שבע', 'להבים', 'עומר', 'שדרות', 'אופקים') not null, max\_players int not null, players\_number int not null) ENGINE=InnoDB DEFAULT CHARSET=utf8;";

    sql.query(Q1,(err,mysqlres)=>{

        if (err) {

            console.log("error ", err);

            res.status(400).send({message: "error in creating groups table"});

            return;

        }

        console.log('groups table created successfully');

        return;

    })

    next();

};

const createUsersTable = (req,res,next)=>{

    var Q2 = "CREATE TABLE IF NOT EXISTS users (email varchar(255) PRIMARY KEY, first\_name VARCHAR(255) not null, last\_name VARCHAR(255) not null, phone\_number VARCHAR(10) not null, city ENUM('באר שבע', 'להבים', 'עומר', 'שדרות', 'אופקים') not null, password varchar(15) not null) ENGINE=InnoDB DEFAULT CHARSET=utf8;";

    sql.query(Q2,(err,mysqlres)=>{

        if (err) {

            console.log("error ", err);

            res.status(400).send({message: "error in creating users table"});

            return;

        }

        console.log('users table created successfully');

        return;

    })

    next();

};

const createUserGroupsTable = (req,res,next)=>{

    var Q13 = "CREATE TABLE IF NOT EXISTS user\_groups (user\_email varchar(255), group\_name varchar(255), primary key(user\_email, group\_name), CONSTRAINT FK\_userEmail FOREIGN KEY (user\_email) REFERENCES users(email), CONSTRAINT FK\_group FOREIGN KEY (group\_name) REFERENCES groups\_details(group\_name)) ENGINE=InnoDB DEFAULT CHARSET=utf8;";

    sql.query(Q13,(err,mysqlres)=>{

        if (err) {

            console.log("error ", err);

            res.status(400).send({message: "error in creating user\_groups table"});

            return;

        }

        console.log('user\_groups table created successfully');

        return;

    })

    next();

};

const createCourtsTable = (req,res)=>{

    var Q3 = "CREATE TABLE IF NOT EXISTS courts (court\_name varchar(255) primary key, address VARCHAR(255) not null, city ENUM('באר שבע', 'להבים', 'עומר', 'שדרות', 'אופקים') not null, surface ENUM('דשא', 'דשא סינטטי', 'אספלט') not null, size varchar(10) not null, price int not null, contact\_phone varchar(20) null) ENGINE=InnoDB DEFAULT CHARSET=utf8;";

    sql.query(Q3,(err,mysqlres)=>{

        if (err) {

            console.log("error ", err);

            res.status(400).send({message: "error in creating courts table"});

            return;

        }

        console.log('courts table created successfully');

        //add

        res.send("all tables created");

        return;

    })

};