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#### **PROJECT OVERVIEW**

Key features Technology I used

#### **CLASS DESIGN**

Class and relationship Diagram

#### **DATABASE DESIGN**

Table and relationship Diagram

#### FUNCTIONAL IMPLEMENTATIN

Core code and screenshot

#### **SHOW THE PROJECT**

Runnable system with README file

## CONTENTS

#### **Project Overview**

This course selection system which allows students to select courses and giving student access to course offerings via online as well as the ability to complete various administrative functions allowing for better management of curriculum decisions in the context of academic objectives. The objective of these systems is to make this process more convenient and easier to achieve which has been met with varying levels of success. This Course Selection Portal will be operated by three users, the administrator, students and teachers.

#### Key Features

Admin

Admin have almost all access like create, delete and modify.

Teacher

Teacher can create, delete and modify the course, also can give the scores to the students and see his schedule.

#### Student

Students can select, withdraw course, can his scores and schedule

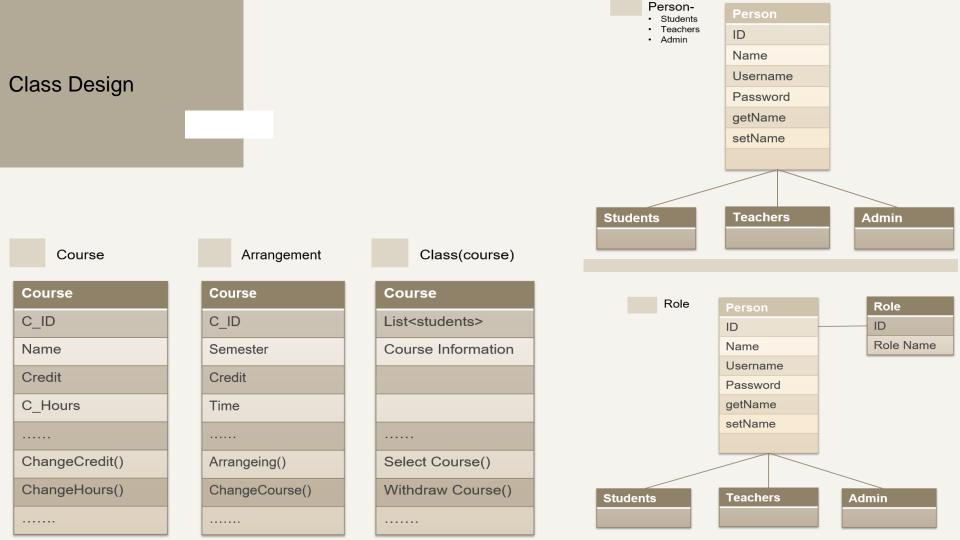
#### Common

In this system have some common feature for all user-like Registration, Login, Logout, view personal info, change pass, retrieve pass, 404 page and etc.

#### Technology I used for implementation

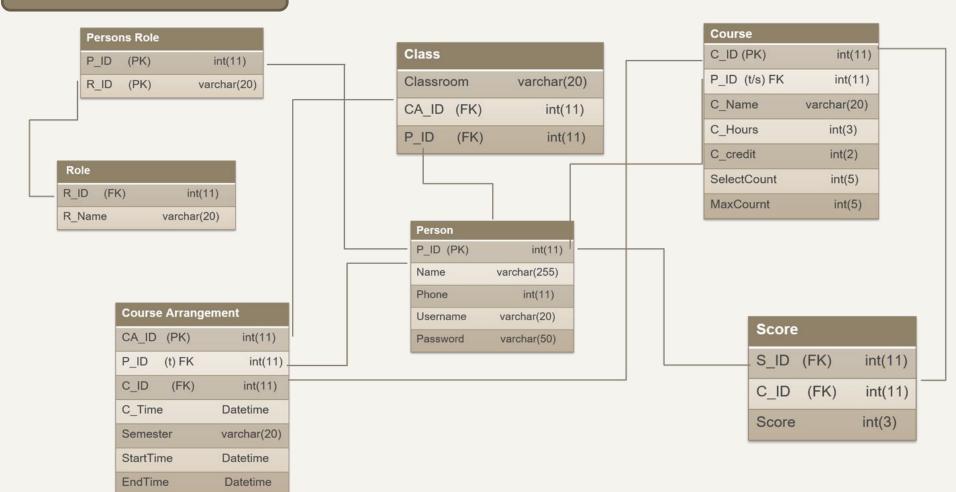
#### Frontend

- Vue.js
- HTML
- CSS
- Backend
- **.** . .
- Node.js (express js)For accessing data use MySQL
- IDE
- \/\abCta#ma
- WebStorm
- MySQL workbench
- \*\*use mysql server 5x



						Course	Course		
Database Table					Score		C_ID	int(11)	
					S_ID	int(11)	P_ID	int(11)	
					C_ID	int(11)	C_Name	varchar(20)	
					Score	int(3)	C_Hours	int(3)	
							C_credit	int(2)	
				Class			SelectCount	int(5)	
Students		Teachers		Classro	oom	varchar(20)	MaxCournt	int(5)	
S.ID	int(11)	T.ID	int(11)	CA_ID		int(11)	waxCournt int(5		
S.Name	varchar(255)	T.Name	varchar(255)	P_ID		int(11)	Course Arrangement		
S.Phone	int(11)	T.Phone	int(11)	Role			CA_ID	int(11)	
S.Username	varchar(20)	T.Username	varchar(20)		4-140				
Password	varchar(50)	T.Password	varchar(50)	R_ID	(FK)	int(11)	P_ID	int(11)	
Admin Person		R_Name varchar(20)		C_ID	int(11)				
A.ID	int(11)	ID	int(11)	Persons	s Role		C_Time	Datetime	
A.Name	varchar(255)	Name	varchar(255)	D 10	(DIC)		Semester	varchar(20)	
A.Phone	int(11)	Phone	int(11)	P_ID	(PK)	int(11)	StartTime	Datetime	
A.Username	varchar(20)	Username	varchar(20)	R_ID	(PK)	varchar(20)	EndTime	Datetime	
A.Password	varchar(50)	Password	varchar(50)				Liidiiiio	Datotiiilo	

#### Database Diagram



#### Core code and screenshot

#### Connect with database

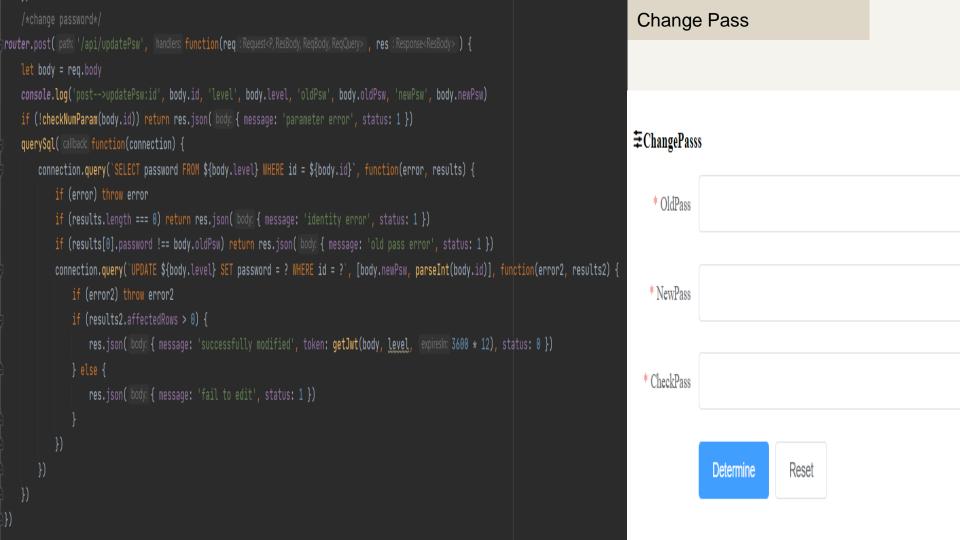
```
let mysql = require('mysql')
let pool = mysql.createPool( config: {
    host: 'localhost',
    password: '123456',
    database: 'courseselection',
    multipleStatements: true,
1});
exports.getLimitStr = function(query) {
    if (!query.page || !query.count) throw Error('parameter error')
    return `LIMIT ${(query.page - 1) * query.count},${query.count}
exports.querySql = function(callback) {
    pool.getConnection(function(err, connection) {
        if (err) throw err
        callback(connection)
        connection.release()
```

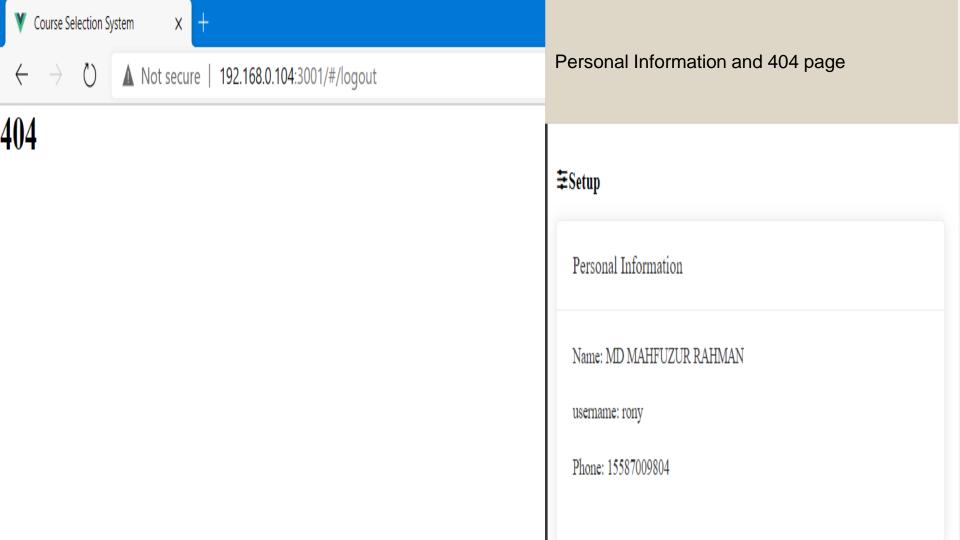
```
Login page for Students, teachers and Admin
let body = req.body
                                                                                                                                      ▼ Course Selection System
let level = body.level
                                                                                                                                                  ▲ Not secure | 192.168.0.104:3001/#/login
if (level !== 'students' && level !== 'teachers' && level !== 'admins') {
querySql( callback function(connection) {
                                                                                                                                                                               Welcome to Course Selection System-Login
   connection.query(`SELECT password,id,phone,name FROM ${level} WHERE username = '${body.username}' LIMIT 1;', function(error, results)
       if (error) throw error
                                                                                                                                                                 Please Input Usemame
       let password = sqlData.password
               token: getJwt(body, level, expiresIn: 3600 * 12),

    Student Teacher

                                                                                                                                                                                                                                         forget pass?Register
               id: sqlData.id,
              phone: sqlData.phone,
               name: sqlData.name
```

# Student Course Selection System-Retrieve Password





#### Select course, students can view the all course information and choose the course

```
IstudentRouter.post( path: '/api/students/selectCourse', | handlers: function(reg : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) {
    let body = req.body
    console.log('post-->students/selectCourse:courseId', body.courseId, 'stuId', body.id)
    if (!checkNumParam( params: [body.id, body.courseId])) return res.json( body: { message: 'Parameter type error', status: 1 })
    if (parseInt(body.courseId) !== parseInt(body.courseId)) return res.json( body: { message: 'Parameter type error', status: 1 })
    querySql( callback: function(connection) {
        connection.query(`SELECT selectedCourseId FROM students WHERE id = ${body.id};
            SELECT count(1) AS selectedCount FROM scores WHERE stuId=${body.id} AND courseId = ${body.courseId};
            SELECT selectedCount, maxCount FROM courses WHERE courseId=${body.courseId}`, function(error, results) {
            if (error) throw error
            if (results.flat(Infinity).length === 0) return res.json( body: { message: 'no data available', status: 1 })
            results = results.flat(1)
            if (results[2].selectedCount >= results[2].maxCount) return res.json( body: { message: 'the number of people reached the limit', status: 1 })
            if (results[1].selectedCount > 0) return res.json( body: { message: 'course repeat', status: 1 })
            let selectedCourseId = results[0].selectedCourseId
            if (!selectedCourseId) {
                selectedCourseId = body.courseId + ''
                if (selectedCourseId.split(',').indexOf(body.courseId + '') > -1) return res.json( body: {
                selectedCourseId = selectedCourseId + ',' + body.courseId
            connection.query(`UPDATE students SET selectedCourseId = '${selectedCourseId}' WHERE id = ${body.id};
                UPDATE courses SET selectedCount = selectedCount+1 WHERE courseId = ${body.courseId};
                INSERT scores (stuId,courseId,score) VALUES(?,?,?)`, [body.id, body.courseId, -1], function(error2, results2) {
                if (error2) throw error2
                if (results2[0].affectedRows < 1 || results2[1].affectedRows < 1) {</pre>
                    res.json( body: { message: 'operation success', status: 0 })
```

#### Select Courses ▼ Course Selection System × + ▲ Not secure | 192.168.0.104:3001/#/courseselection/students/selectCourses **≅**Select Course Select Course Course Name-----Credit----Classroom and Time **Teacher Name** Serial Number Course start end time Selected Count Max count Operation July 14 to December 14 Database ----- 3 ---- Lixing4024, Friday 8:30-10:10 Xiecheng 50 Fall 2021 July 14 to December 14 New Tech2 ----- 2 ---- Lixing3029, Friday 7:00-8:40 Xiecheng 50 Fall 2021 July 14 to December 14 3 Software ----- 3 ---- Lixing3014, Tuesday 8:30-10:10 Xiecheng 50 Fall 2021 July 14 to December 14 New Tech ----- 2 ---- Lixing1314, Tuesday 10:30-12:10 Xiecheng 50 Select Fall 2021 July 14 to December 14 Python ----- 3 ---- Lixing3024, Friday 10:30-12:10 Xiecheng 50 Select Fall 2021 July 14 to December 14 Java ----- 2 ---- Lixing2034, Monday 8:30-9:30 50 Select 6 Xiecheng Fall 2021 10条/页

#### Selected course

```
studentRouter.qet( path: '/api/students/selectedCourses', handlers: function(reg : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) {
    let query = filterQuery(req.query)
    console.log('get-->students/selectedCourses:page', query.page, 'count', query.count, 'id', query.id)
    if (!checkNumParam(query.id)) return res.json( body: { message: 'parameter error', status: 1 })
    querySql( callback: function(connection) {
        connection.query(`SELECT selectedCourseId FROM students WHERE id = ${query.id}`, function(error, results) {
            if (error) throw error
            if (results.flat(Infinity).length === 0) return res.json( body: { message: 'no data available', status: 1 })
            let courseIds = results[0].selectedCourseId
            if (!courseIds) return res.json( body: {
                    [], { totalCount: 0 }
            connection.query(`SELECT courseName, teachers.name AS teacherName, score, courses.courseId
FROM courses, teachers, scores
WHERE courses.courseId in (${courseIds}) AND courses.teacherId=teachers.id AND scores.stuId=${query.id} AND scores.courseId = courses.courseId
Dim ER BY courses.created_at DESC ${getLimitStr(query)};
SELECT count(1) AS totalCount FROM courses WHERE courseId in (${courseIds});`, function(error2, results2) {
                if (error2) throw error2
                results2[1] = { totalCount: results2[1][0].totalCount }
                res.json( body: { message: 'ok', status: 0, data: results2 })
           })
```

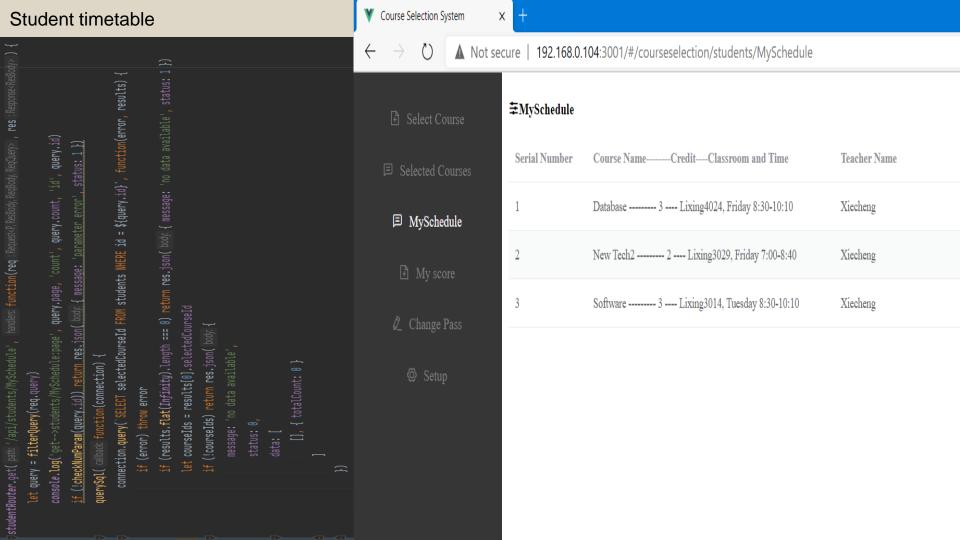
#### Withdraw course

/\*students withdraw courses\*/

```
let body = req.body
console.log('post-->students/deleteCourse:id', body.id, 'courseId', body.courseId)
if (!checkNumParam( params: [body.id, body.courseId])) return res.json( body: { message: 'parameter error', status: 1 })
querySql( callback: function(connection) {
    connection.query(`SELECT selectedCourseId FROM students WHERE id = ${body.id}; SELECT score FROM scores
        WHERE stuId=${body.id} AND courseId=${body.courseId}`, function(error, results) {
        if (error) throw error
        if (results.flat(Infinity).length === 0) return res.json( body: { message: 'no data', status: 1 })
        results = results.flat(1)
        let selectedIds = results[0].selectedCourseId
        if (!selectedIds) return res.json( body: { message: 'this course is not selected', status: 1 })
        selectedIds = selectedIds.split(',')
        let courseIndex = selectedIds.indexOf(body.courseId + '')
        if (courseIndex < 0) return res.json( body: { message: 'this course is not selected', status: 1 })
        if (results[1].score > -1) return res.json( body: { message: 'this course has beed scored, and cannot be withdraw', status: 1 })
        selectedIds.splice(courseIndex, deleteCount: 1)
        let newCourseIds = selectedIds.join(',')
        connection.query(`UPDATE students SET selectedCourseId=? WHERE id=?; DELETE FROM scores WHERE stuId=? AND courseId=?`.
            [newCourseIds, body.id, body.id, body.courseId], function(error2, results2) {
            if (error2) throw error2
            if (results2[0].affectedRows > 0 && results2[1].affectedRows > 0) {
                res.json( body: { message: 'operation successful', status: 0 })
                res.json( body: { message: 'operation failed', status: 1 })
        })
   })
```

studentRouter.post( path: '/api/students/deleteCourse', | handlers: function(reg : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) {

#### Withdraw course ▼ Course Selection System x + ▲ Not secure | 192.168.0.104:3001/#/courseselection/students/selectedCourses **≅**Selected Courses Course Name-----Credit----Classroom and Time **Teacher Name** Serial Number Score Operation □ Selected Courses Database ----- 3 ---- Lixing 4024, Friday 8:30-10:10 Xiecheng Not yet Withdraw New Tech2 ----- 2 ---- Lixing3029, Friday 7:00-8:40 Xiecheng Not yet Withdraw Software ----- 3 ---- Lixing3014, Tuesday 8:30-10:10 Xiecheng Not yet Withdraw



#### **Student Scores** ▼ Course Selection System × ▲ Not secure | 192.168.0.104:3001/#/courseselection/students/myScores **≢**My Scores Serial Number Course Name **Teacher Name** Score 谢成 Database Design 80 李浩 Data Structure 88 My score 赵明 Artificial Intelligence 98 3 Java Programming 4 GeLuhao 85

#### Add new course

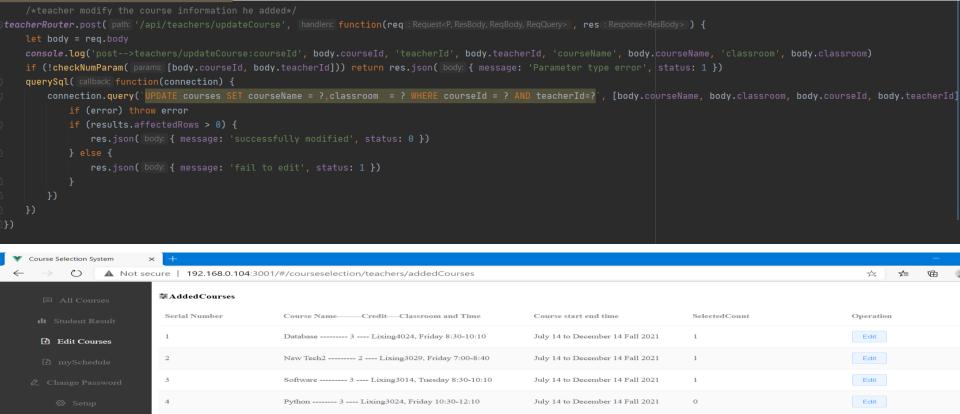
```
EteacherRouter.post( path: '/api/teachers/addCourse', handlers: function(reg : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) {
        let body = req.body
        if (!checkNumParam( params: [body.teacherId, body.maxCount])) return res.json( body: { message: 'parameter type errot', status: 1 })
        querySql( callback: function(connection) {
            connection.query(`INSERT courses(courseName, teacherId, classroom, selectedCount, maxCount) values(?,?,?,?);`,
                [body.courseName, body.teacherId, body.classroom, 0, body.maxCount], function(error, results) {
                if (error) throw error
                if (results.affectedRows > 0) {
 See added course
```

```
teacherRouter.get( path: '/api/teachers/addedCourses', handlers: function(reg : Request<P, ResBody, RegBody, RegQuery> , res : Response<ResBody> ) {
        let query = filterQuery(req.query)
        console.log('get-->teachers/addedCourses:page', query.page, 'count', query.count)
        querySql( callback: function(connection) {
            connection.query(`SELECT courseName,classroom,selectedCount,courseId FROM courses
                WHERE teacherId = ${query.teacherId} ORDER BY courses.created_at DESC ${qetLimitStr(query)};
                SELECT count(1) as totalCount FROM courses`, function(error, results) {
                if (error) throw error
                if (results.flat(Infinity).length === 0) return res.json( body: { message: 'no data', status: 1 })
                results[1] = { totalCount: results[1][0].totalCount }
                res.json( body: { message: 'ok', status: 0, data: results })
            })
        })
    })
```

#### All courses

$\leftarrow$	→ O ▲ Not se	Not secure   192.168.0.104:3001/#/courseselection/teachers/allCourses							
	□ All Courses	幸All Courses						Add Course	
		Course ID	Course NameCreditClassroom and Time	Teacher Name	Course start end time	SelectedCount	MaxCount		
		1	Database 3 Lixing4024, Friday 8:30-10:10	Xiecheng	July 14 to December 14 Fall 2021	1	50		
		2	New Tech2 2 Lixing3029, Friday 7:00-8:40	Xiecheng	July 14 to December 14 Fall 2021	1	50		
	Change Password	3	Software 3 Lixing3014, Tuesday 8:30-10:10	Xiecheng	July 14 to December 14 Fall 2021	1	50		
6/_		4	New Tech 2 Lixing1314, Tuesday 10:30-12:10	Xiecheng	July 14 to December 14 Fall 2021	0	50		
		5	Python 3 Lixing3024, Friday 10:30-12:10	Xiecheng	July 14 to December 14 Fall 2021	0	50		
		6	Java 2 Lixing2034, Monday 8:30-9:30	Xiecheng	July 14 to December 14 Fall 2021	0	50		

#### **Modify Course**



July 14 to December 14 Fall 2021

July 14 to December 14 Fall 2021

Edit

Edit

Java ----- 2 ---- Lixing2034, Monday 8:30-9:30

New Tech ----- 2 ---- Lixing1314, Tuesday 10:30-12:10

#### Add score to students

```
teacherRouter.post( path: '/api/teachers/addScore', handlers: function(reg : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) {
         let body = req.body
         console.log('post-->teachers/addScore:courseId', body.courseId, 'stuId', body.stuId, 'score', body.score)
         if (!checkNumParam( params: [body.courseId, body.stuId, body.score])) return res.json( body: { message: 'parameter type error', status: 1 })
         querySql( callback: function(connection) {
             connection.query(`UPDATE scores SET score = ${body.score} WHERE stuId = ${body.stuId} AND courseId = ${body.courseId}`, function(error, results) {
                  if (error) throw error
                  if (results.affectedRows > 0) {
   Course Selection System
           \bigcirc
                 ▲ Not secure | 192.168.0.104:3001/#/courseselection/teachers/stuScores
                            Serial Number
                                           Student Name
                                                                    Student ID
                                                                                   Course Name-----Credit----Classroom and Time
                                                                                                                                                       Operation
     II Student Result
                                                                                   Database ----- 3 ---- Lixing4024, Friday 8:30-10:10
                                                                                                                                                       Add
                                           MD MAHFUZUR RAHMAN
                                                                    20180375
                                                                                                                                 Not yet
                                                                                                                                                        Add
                             2
                                           MD MAHFUZUR RAHMAN
                                                                    20180375
                                                                                  New Tech2 ----- 2 ---- Lixing3029, Friday 7:00-8:40
                                                                                                                                 Not yet
                                                                                  Software ----- 3 ---- Lixing3014, Tuesday 8:30-10:10
                                                                                                                                                       Add
                                           MD MAHFUZUR RAHMAN
                                                                    20180375
                                                                                                                                 Not yet
```

5

6

```
TimeTable
teacherRouter.get( path: '/api/teachers/mySchedule', handlers: function(req : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) {
        let query = filterQuery(req.query)
        console.log('get-->teachers/mySchedule:page', query.page, 'count', query.count)
        querySql( callback: function(connection) {
            connection.query(`SELECT courseName,classroom,selectedCount,courseId FROM courses WHERE teacherId = ${query_teacherId} ORDER BY courses.created
                if (error) throw error
                if (results.flat(Infinity).length === 0) return res.json( body: { message: 'no data', status: 1 })
                res.json( body: { message: 'ok', status: 0, data: results })
     Course Selection System
                                 ×
                       ▲ Not secure | 192.168.0.104:3001/#/courseselection/teachers/mySchedule
                                   ≢mySchedule
                                     Serial Number
                                                                 Course Name-----Credit----Classroom and Time
                                                                                                                           Course start end time
                                                                Database ----- 3 ---- Lixing4024, Friday 8:30-10:10
                                     1
                                                                                                                           July 14 to December 14 Fall 2021
                                                                                                                           July 14 to December 14 Fall 2021
                                     2
                                                                 New Tech2 ----- 2 ---- Lixing3029, Friday 7:00-8:40
        mySchedule
                                                                Software ----- 3 ---- Lixing3014, Tuesday 8:30-10:10
                                                                                                                           July 14 to December 14 Fall 2021
                                     3
                                     4
                                                                Python ----- 3 ---- Lixing3024, Friday 10:30-12:10
                                                                                                                           July 14 to December 14 Fall 2021
```

Java ----- 2 ---- Lixing2034, Monday 8:30-9:30

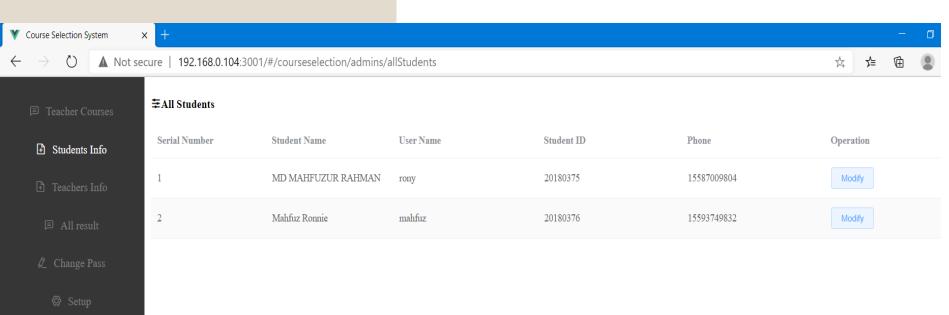
New Tech ----- 2 ---- Lixing1314, Tuesday 10:30-12:10

July 14 to December 14 Fall 2021

July 14 to December 14 Fall 2021

```
Admin can see students info and can modify
adminRouter.get( path: '/api/admins/allStudents', handlers: function(reg : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) {
         let query = filterQuery(req.query)
         console.log('get-->admins/allStudents:page', query.page, 'count', query.count)
         querySql( callback: function(connection) {
             connection.query(`SELECT id AS stuId, name AS studentName, phone, username
 Find students ORDER BY students.created_at DESC ${getLimitStr(query)};
SELECT count(1) as totalCount FROM students`, function(error, results) {
                  if (error) throw error
                  if (results.flat(Infinity).length === 0) return res.json( body: { message: 'no data available', status: 1 })
                  results[1] = { totalCount: results[1][0].totalCount }
                  res.json( body: { message: 'ok', status: 0, data: results })
             })
         })
adminRouter.post( path: '/api/admins/updateStudent', handlers: function(reg : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) {
   let body = req.body
   console.log('post-->admins/updateStudent:stuId', body.stuId, 'studentName', body.studentName, 'phone', body.phone)
   if (!checkNumParam( params: [body.stuId, body.phone])) return res.json( body: { message: 'parameter type error', status: 1 })
    querySql( callback: function(connection) {
       connection.query(`UPDATE students SET name=?,phone=? WHERE id=?`, [body.studentName, body.phone, body.stuId], function(error, results) {
           if (error) throw error
           if (results.affectedRows > 0) {
               res.json( body: { message: 'successfully modified', status: 0 })
               res.json( body: { message: 'fail to edit', status: 1 })
```

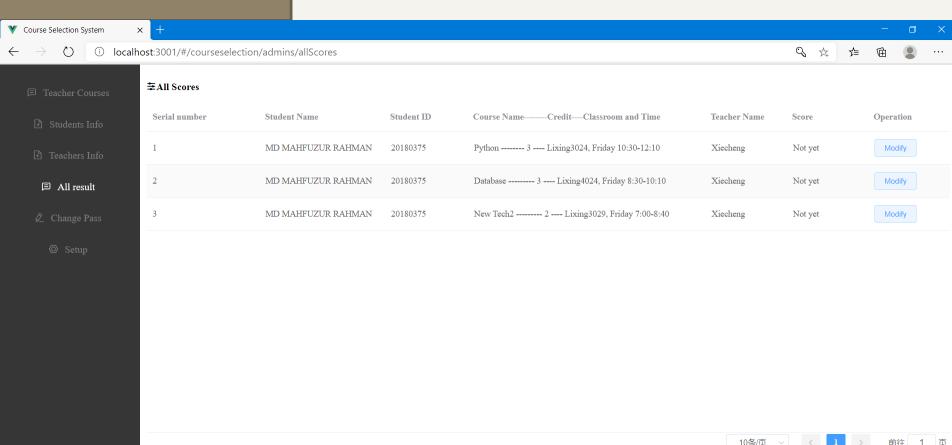
#### Students Info in Admin page



#### View and modify students scores

```
let query = filterQuery(req.query)
       console.log('get-->admins/allScores:page', query.page, 'count', query.count)
       querySql( callback: function(connection) {
           connection.query(`SELECT courses.courseId,students.id AS stuId,score.courseName.students.name AS studentName,teachers.name AS teacherName
FROM ((scores INNER JOIN courses ON scores.courseId=courses.courseId) INNER JOIN students ON students.id=scores.stuId)
INNER JOIN teachers ON teachers.id=courses.teacherId ORDER BY scores.created_at DESC ${getLimitStr(query)}; SELECT count(1) as totalCount FROM scores`, function(error, results)
               if (error) throw error
               if (results.flat(Infinity).length === 0) return res.json( body: { message: 'No data available', status: 1 })
               res.json( body: { message: 'ok', status: 0, data: results })
adminRouter.post( path: '/api/admins/updateScore', handlers: function(reg : Request<P, ResBody, RegBody, RegQuery> , res : Response<ResBody> ) {
        let body = req.body
        console.log('post-->admins/updateScore:courseId', body.courseId, 'stuId', body.stuId, 'score', body.score)
        if (!checkNumParam( params: [body.courseId, body.stuId, body.score])) return res.json( body: { message: 'Parameter type error', status: 1 })
        querySql( callback: function(connection) {
             connection.query(`UPDATE scores SET score = ? WHERE courseId=? AND stuId=?`, [body.score, body.courseId, body.stuId], function(error, results) {
                 if (error) throw error
                 if (results.affectedRows > 0) {
                      res.json( body: { message: 'Successfully modified', status: 0 })
                      res.json(body: { message: 'fail to edit', status: 1 })
             })
        })
```

#### View and modify students Scores

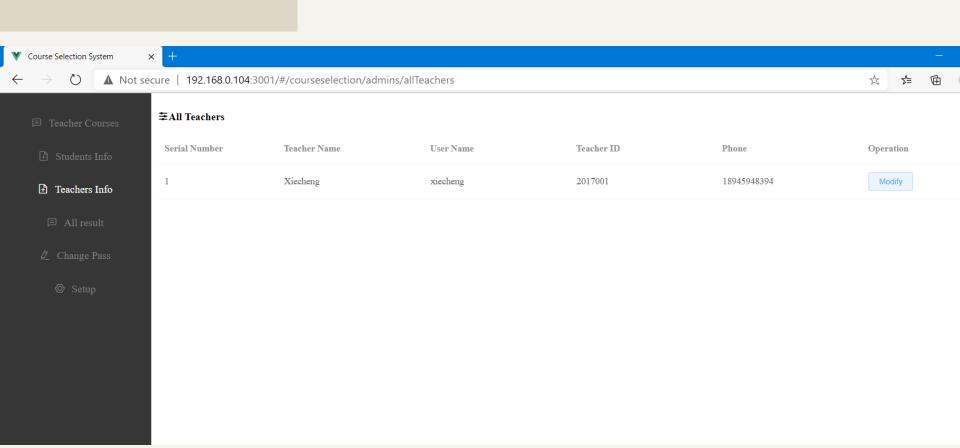


#### adminRouter.get( path: '/api/admins/allTeachers', handlers: function(reg : Request<P, ResBody, RegBody, RegQuery> , res : Response<ResBody> ) { let query = filterQuery(req.query) console.log('get-->admins/allTeachers:page', query.page, 'count', query.count) querySql( callback: function(connection) { connection.query(`SELECT id AS teacherId,name AS teacherName,phone,username FROM teachers ORDER BY teachers.created\_at DESC \${getLimitStr(query)}; SELECT count(1) as totalCount FROM teachers`, function(error, results) { if (error) throw error if (results.flat(Infinity).length === 0) return res.json( body: { message: 'no data available', status: 1 }) res.json( body: { message: 'ok', status: 0, data: results }) }) adminRouter.post( path: '/api/admins/updateTeacher', handlers: function(reg : Request<P, ResBody, ReqBody, ReqQuery> , res : Response<ResBody> ) { let body = req.body console.log('post-->admins/updateTeacher:teacherId', body.teacherId, 'teacherName', body.teacherName, 'phone', body.phone) if (!checkNumParam( params: [body.teacherId, body.phone])) return res.json( body: { message: 'Parameter type error', status: 1 }) querySql( callback: function(connection) { connection.query(`UPDATE teachers SET name=?,phone=? WHERE id=?`, [body.teacherName, body.phone, body.teacherId], function(error, results) { if (error) throw error if (results.affectedRows > 0) { res.json(body: { message: 'successfully modified', status: 0 })

View and modify teacher info

})

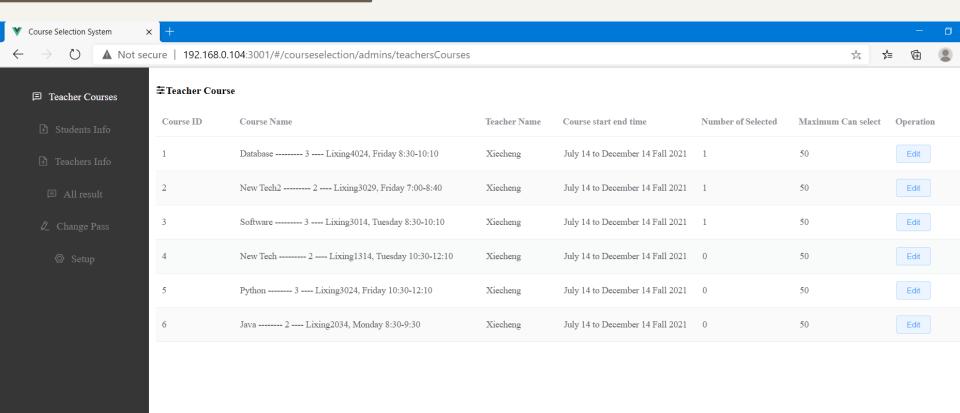
#### View and Modify Teachers info



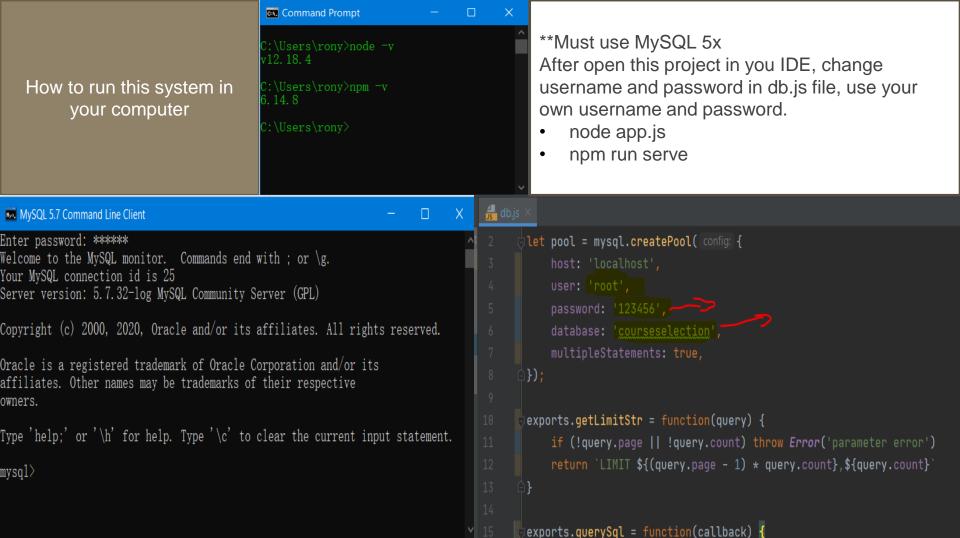
#### Teachers course info and modify

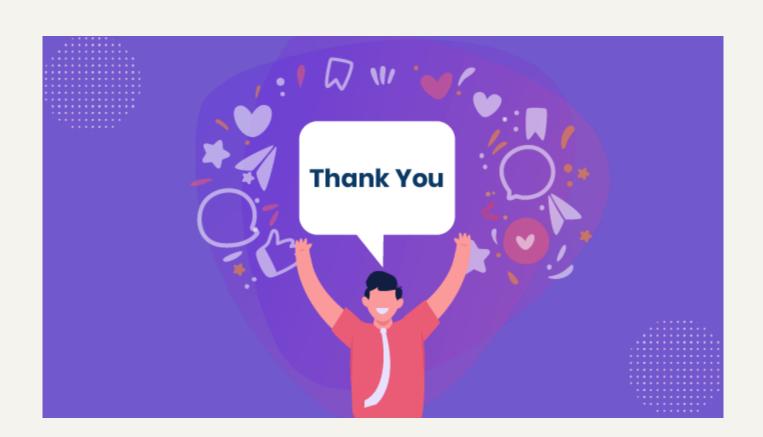
```
adminRouter.get( path: '/api/admins/teacherCourses', handlers: function(req : Request<P, ResBody, RegBody, RegQuery> , res : Response<ResBody> ) {
        let query = filterQuery(req.query)
        console.log('get-->admins/teacherCourses:page', query.page, 'count', query.count)
        querySql( callback: function(connection) {
             connection.query(`SELECT courseId,courseName,teachers.name AS teacherName,classroom,selectedCount,maxCount,
teachers.id AS teacherId FROM courses INNER JOIN teachers ON courses.teacherId=teachers.id ORDER BY courses.created_at DESC ${getLimitStr(query)};
SELECT count(1) as totalCount FROM courses`, function(error, results) {
                 if (error) throw error
                 if (results.flat(Infinity).length === 0) return res.json( body: { message: 'No Data Available', status: 1 })
                 results[1] = { totalCount: results[1][0].totalCount }
                 res.json(body: { message: 'ok', status: 0, data: results })
            })
        })
       let body = req.body
       console.log('post-->admins/updateCourse:courseId', body.courseId, 'teacherId', body.teacherId, 'courseName', body.courseName, 'classroom', body.classroom, 'maxCount', tod
       if (!checkNumParam( params: [body.courseId, body.teacherId, body.maxCount])) return res.json( body: { message: 'Parameter type error', status: 1 })
       querySql( callback: function(connection) {
          connection.query(`UPDATE courses SET courseName = ?,classroom = ?,maxCount = ? WHERE courseId = ? AND teacherId=?`,
              [body.courseName, body.classroom, body.maxCount, body.courseId, body.teacherId], function(error, results) {
              if (error) throw error
```

#### Teachers course info and modify



#### Show the runnable Project





#### What I send before

- Requirement version 1,2,3
- Design Document V1, V2
- Implementation V 0.5, V1, V2, V3

#### What I am going to deliver

- Organized source code with README.md file
- Final Report of this project