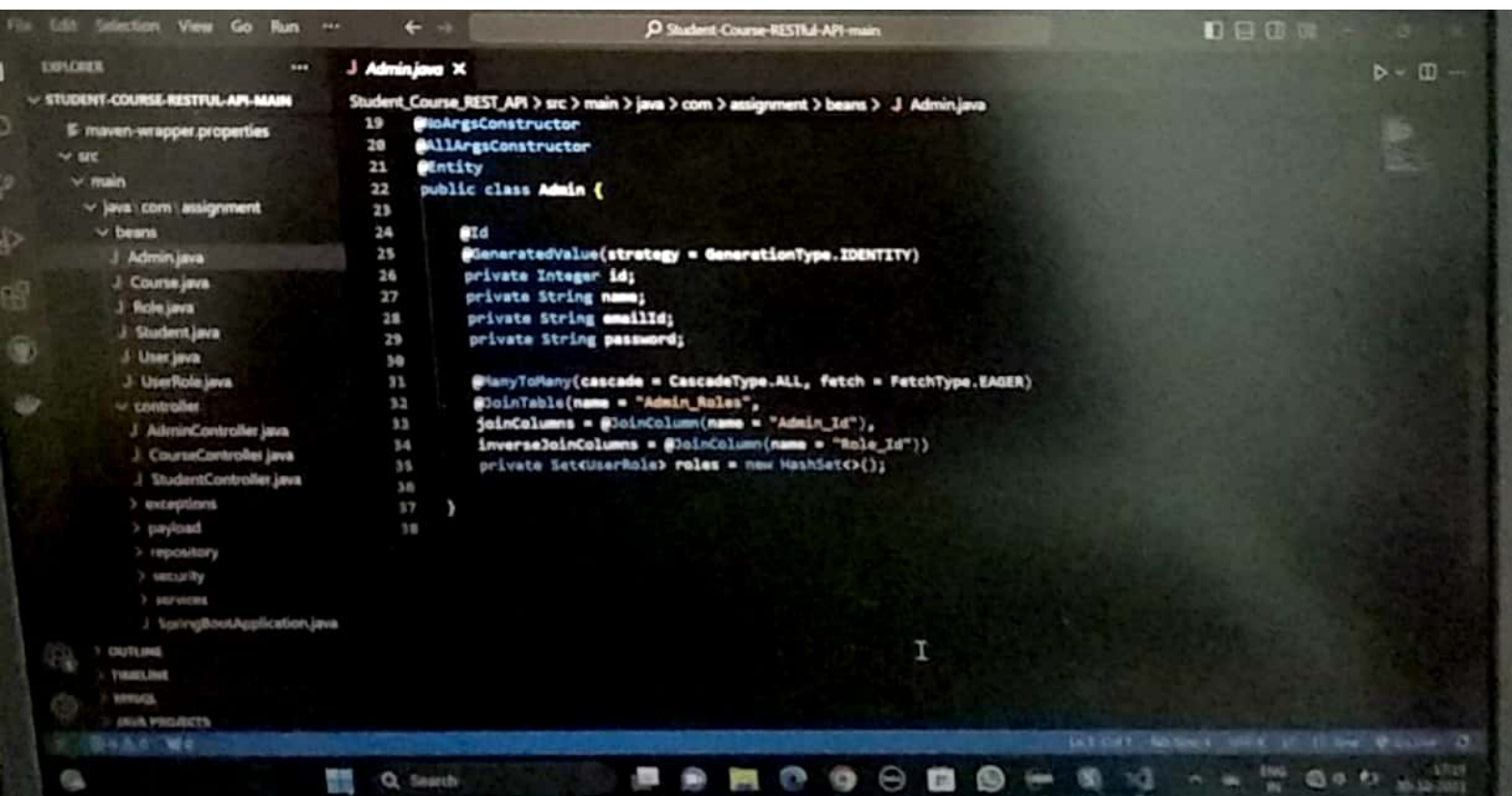
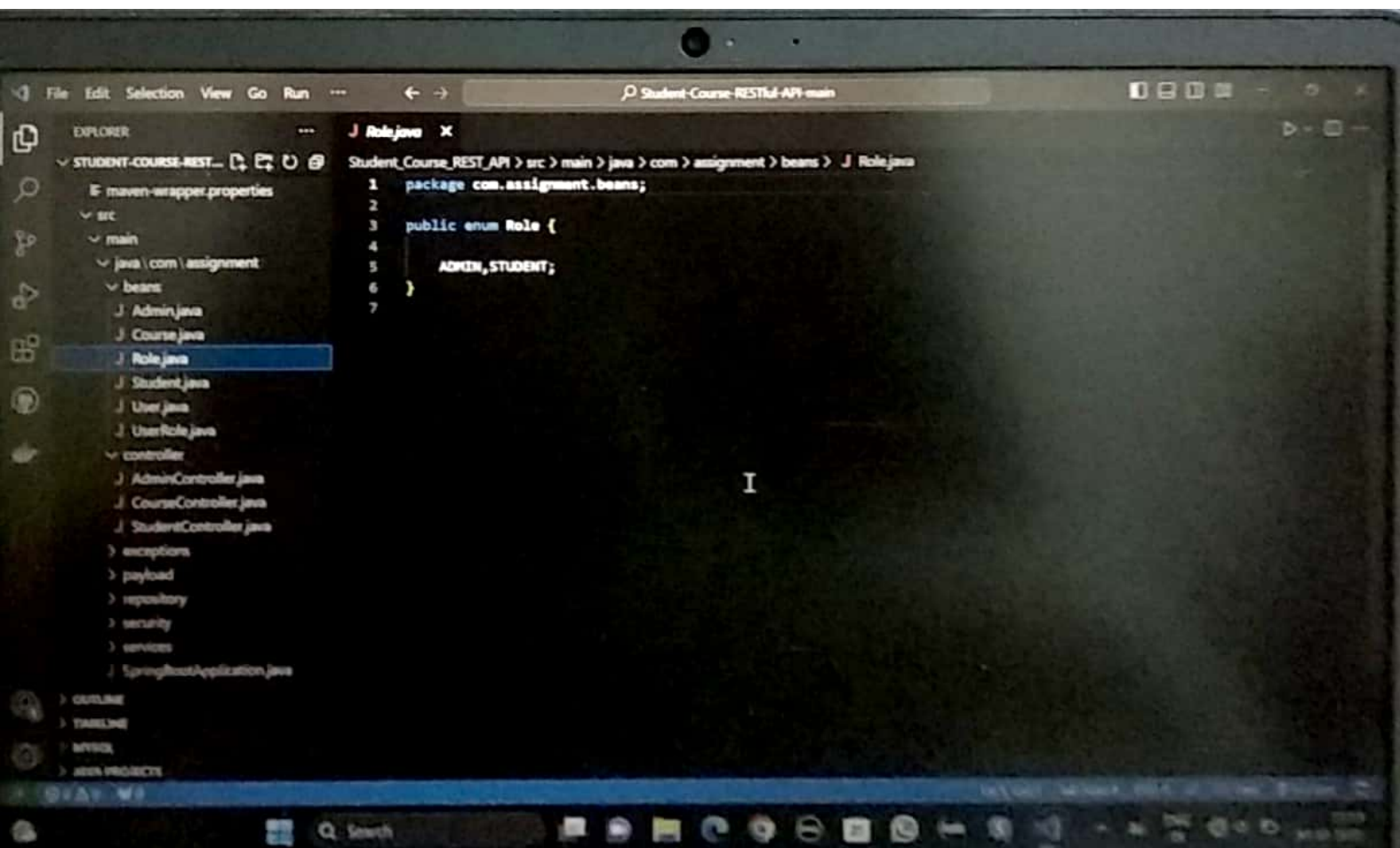


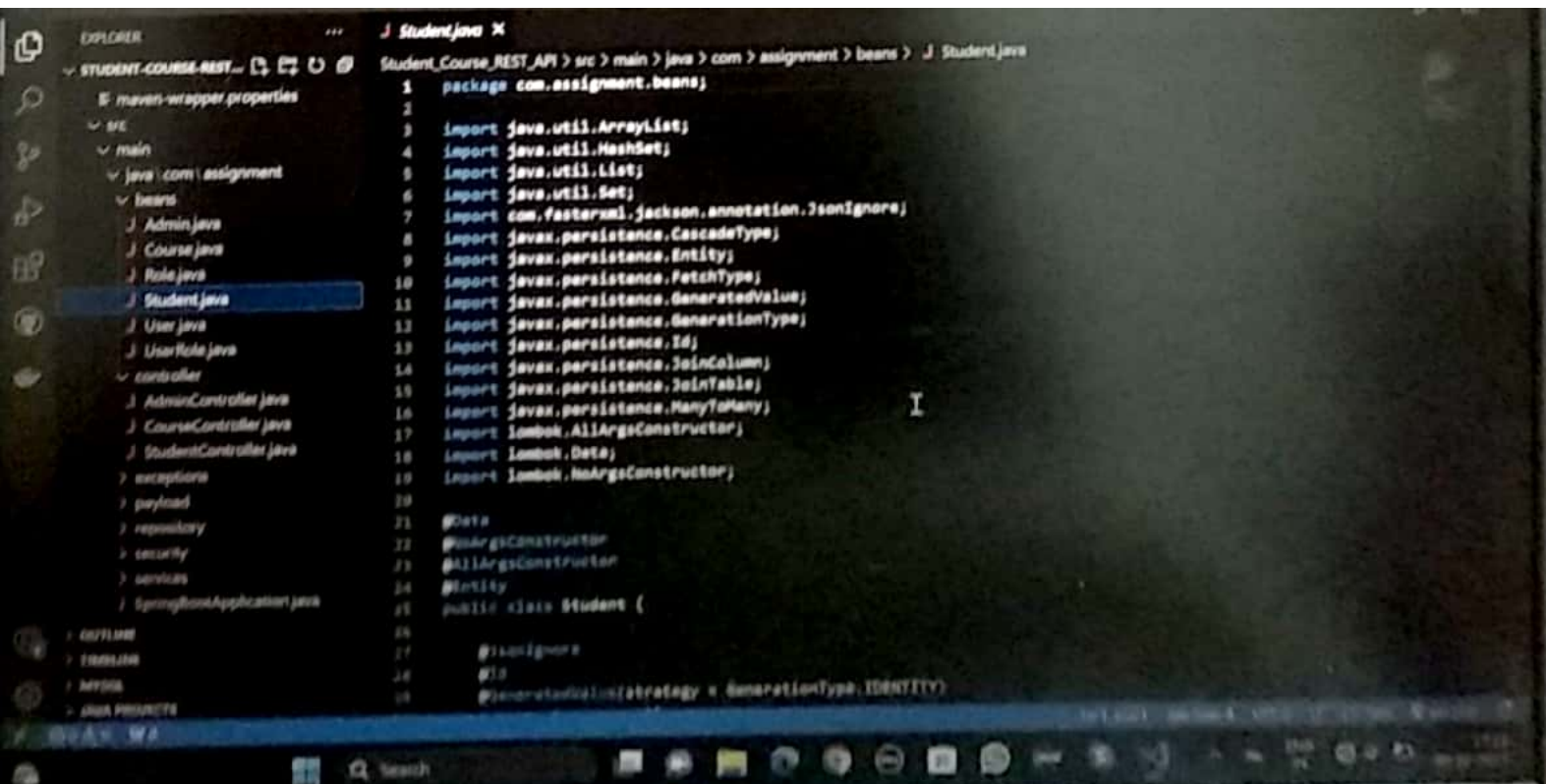
```
1 package com.assignment.beans;
2
3 import java.util.HashSet;
4 import java.util.Set;
5 import javax.persistence.CascadeType;
6 import javax.persistence.Entity;
7 import javax.persistence.FetchType;
8 import javax.persistence.GeneratedValue;
9 import javax.persistence.GenerationType;
10 import javax.persistence.Id;
11 import javax.persistence.JoinColumn;
12 import javax.persistence.JoinTable;
13 import javax.persistence.ManyToMany;
14 import lombok.AllArgsConstructor;
15 import lombok.Data;
16 import lombok.NoArgsConstructor;
17
18 @Data
19 @NoArgsConstructor
20 @AllArgsConstructor
21 @Entity
22 public class Admin {
23
24     @Id
25     @GeneratedValue(strategy = GenerationType.IDENTITY)
26     private Integer id;
27     private String name;
28     private String emailid;
29     private String password;
```

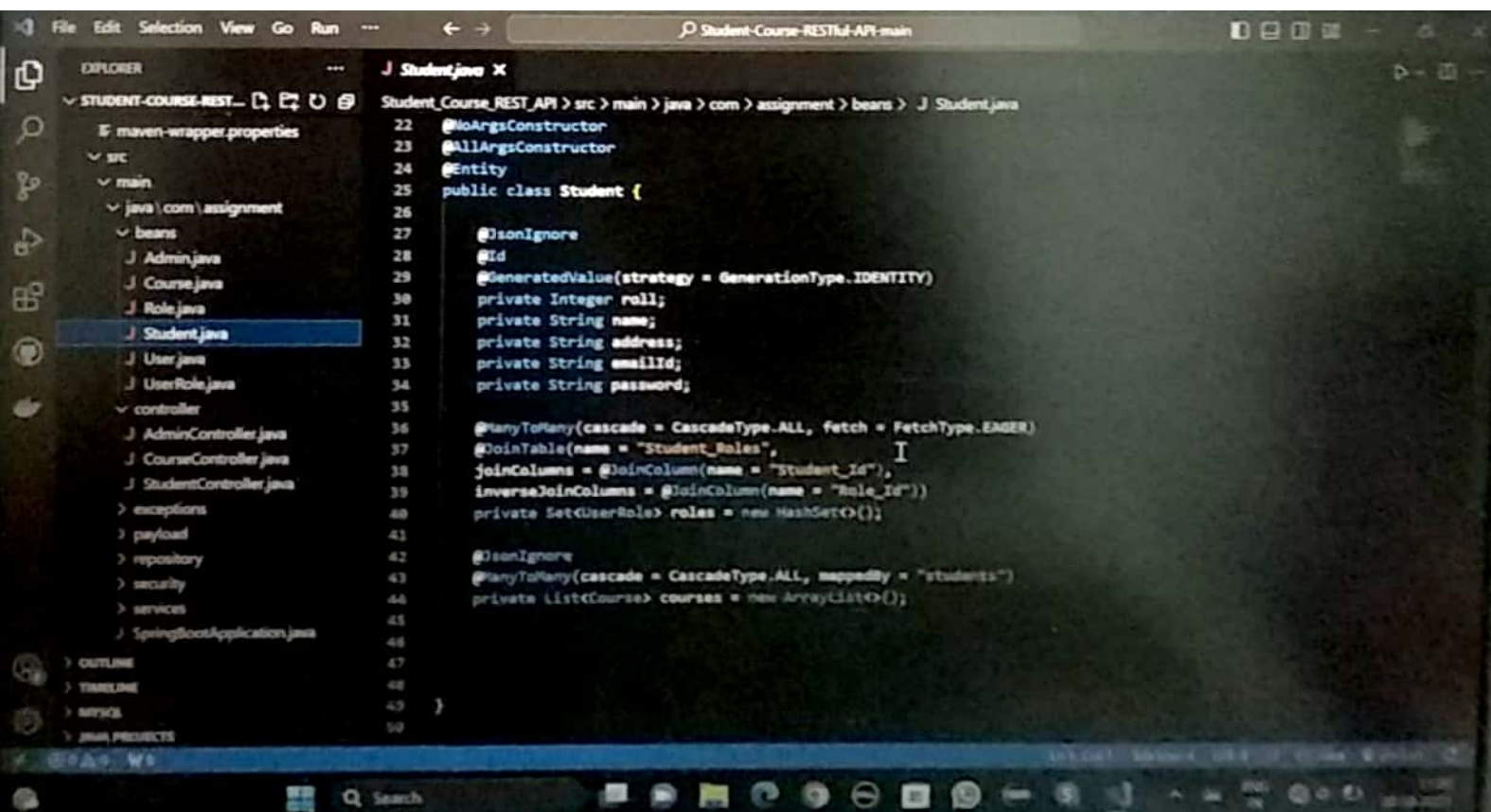


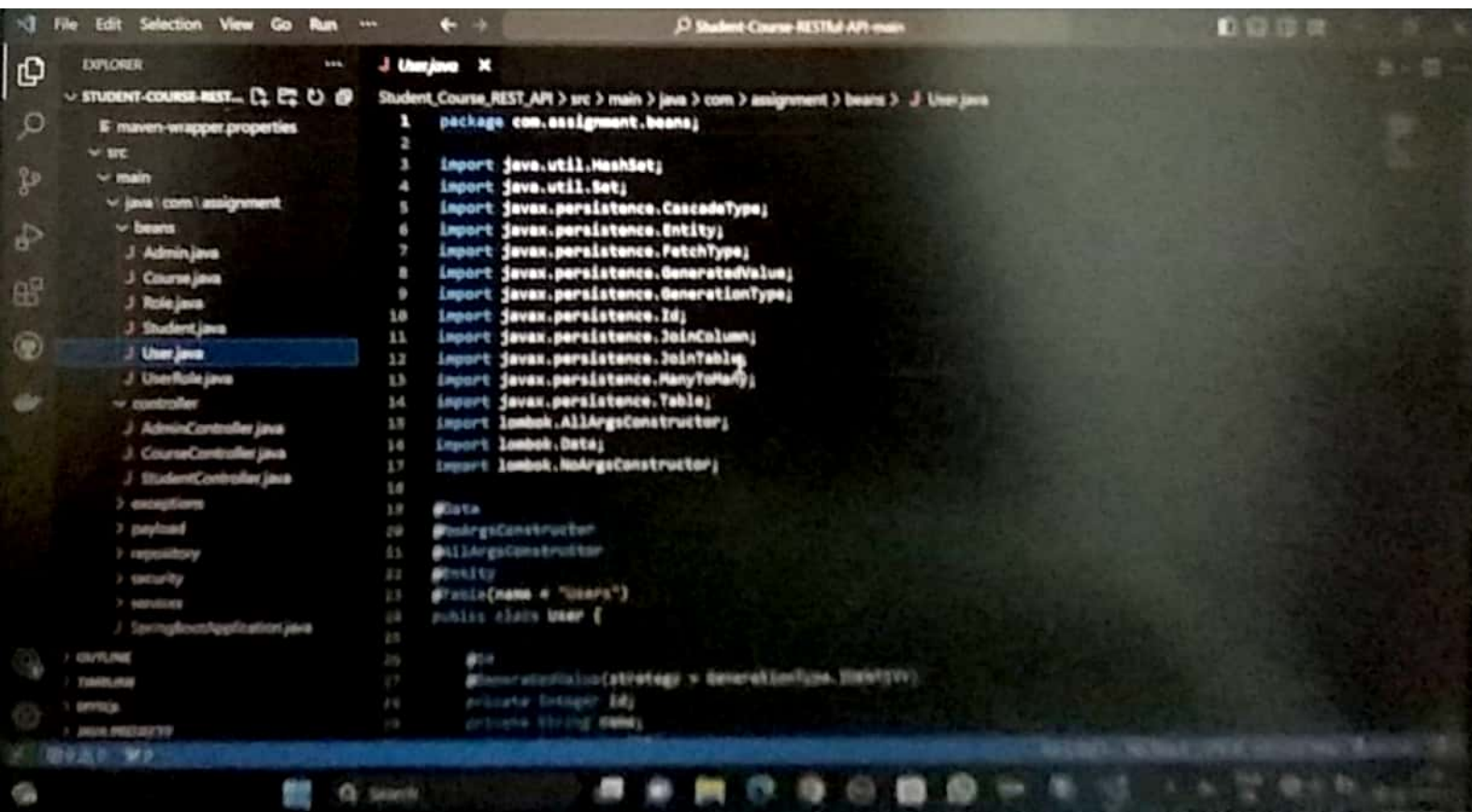
The screenshot shows an IDE with a project named 'STUDENT-COURSE-REST-...'. The Explorer view on the left shows the project structure, with 'Course.java' selected under 'beans'. The main editor displays the code for 'Course.java'.

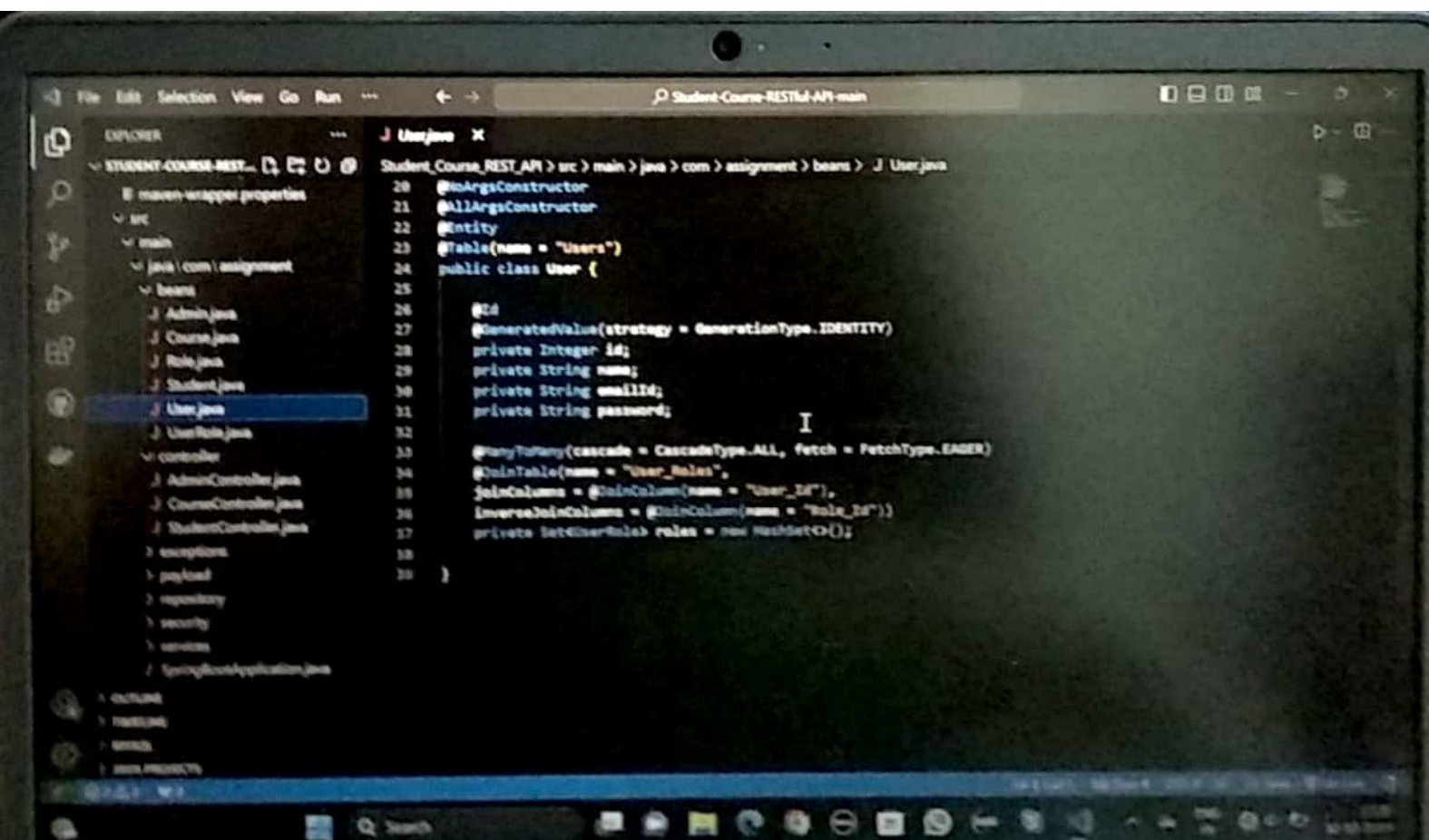
```
1 package com.assignment.beans;
2
3 import java.util.ArrayList;
4 import java.util.List;
5 import com.fasterxml.jackson.annotation.JsonIgnore;
6 import javax.persistence.CascadeType;
7 import javax.persistence.Entity;
8 import javax.persistence.GeneratedValue;
9 import javax.persistence.GenerationType;
10 import javax.persistence.Id;
11 import javax.persistence.ManyToOne;
12 import lombok.AllArgsConstructor;
13 import lombok.Data;
14 import lombok.NoArgsConstructor;
15
16 @Data
17 @NoArgsConstructor
18 @AllArgsConstructor
19 @Entity
20 public class Course {
21
22     @Id
23     @GeneratedValue(strategy = GenerationType.IDENTITY)
24     private Integer courseId;
25     private String courseName;
26     private String instructorName;
27
28     @JsonIgnore
29     @ManyToOne(cascade = CascadeType.ALL)
```

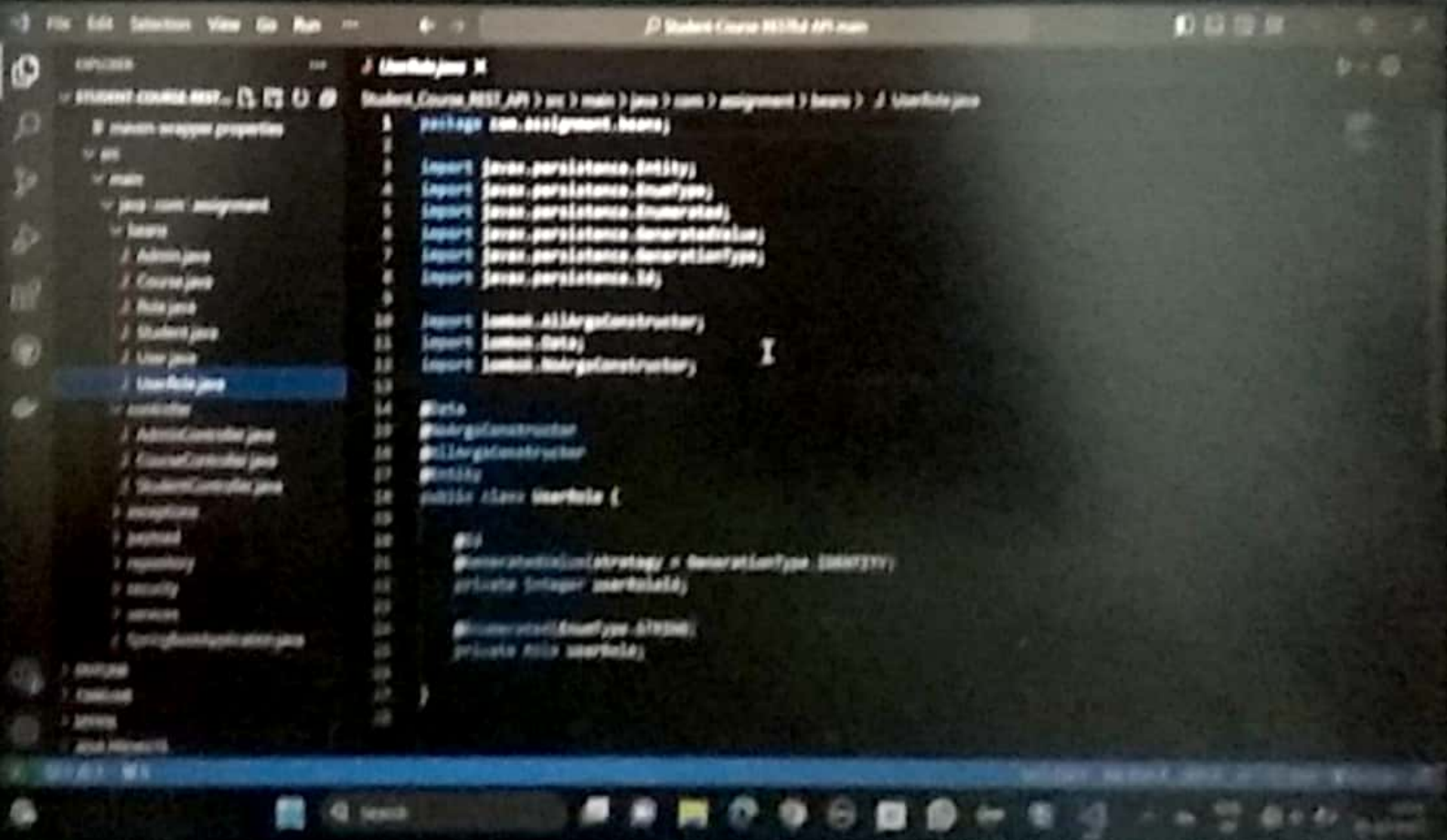




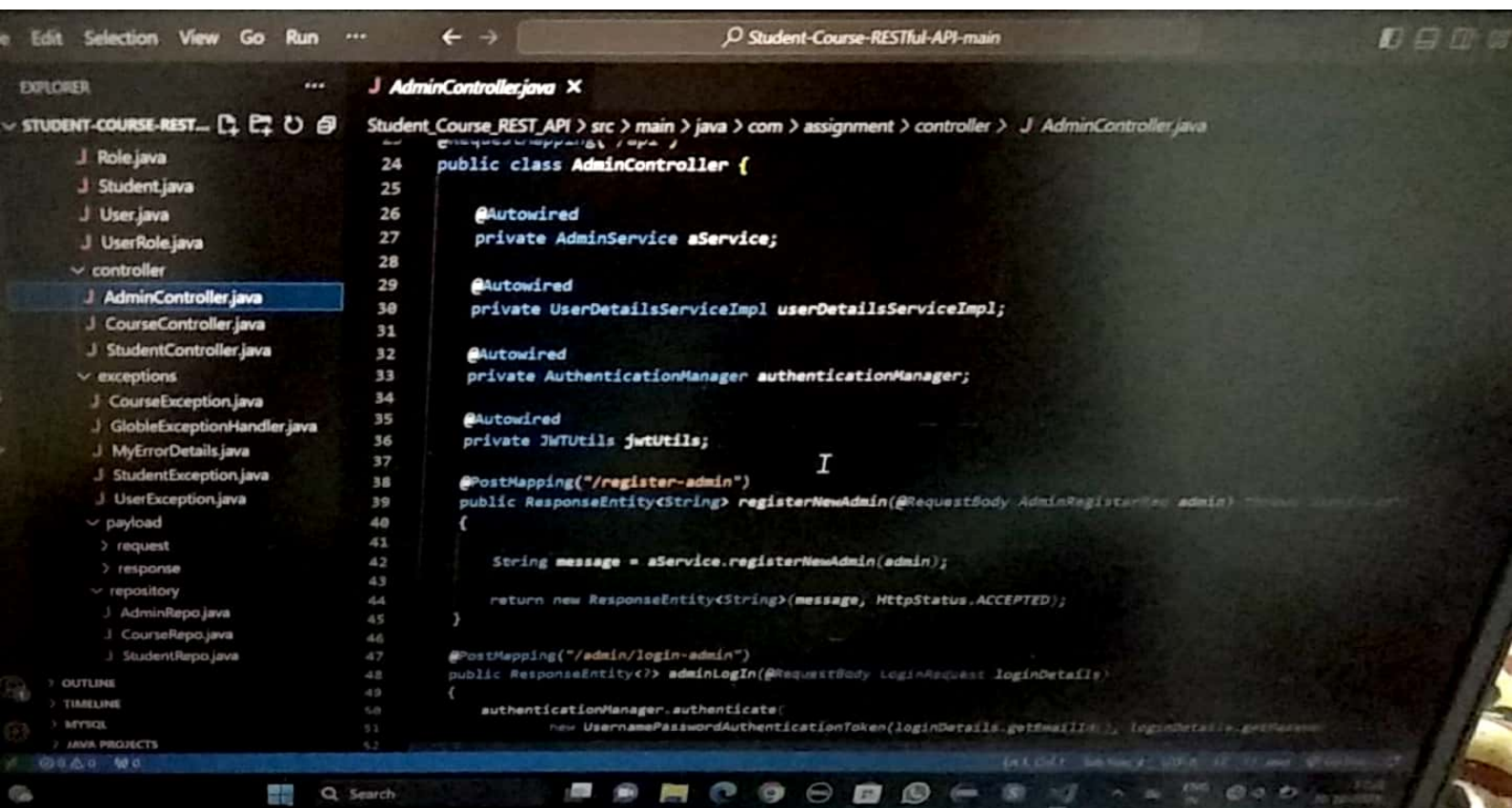








```
1 package com.assignment.controller;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.http.HttpStatus;
5 import org.springframework.http.ResponseEntity;
6 import org.springframework.security.authentication.AuthenticationManager;
7 import org.springframework.security.authentication.UsernamePasswordAuthenticationToken;
8 import org.springframework.security.core.userdetails.UserDetails;
9 import org.springframework.web.bind.annotation.GetMapping;
10 import org.springframework.web.bind.annotation.PostMapping;
11 import org.springframework.web.bind.annotation.RequestBody;
12 import org.springframework.web.bind.annotation.RequestMapping;
13 import org.springframework.web.bind.annotation.RestController;
14 import com.assignment.exceptions.UserException;
15 import com.assignment.payload.request.AdminRegisterReq;
16 import com.assignment.payload.request.LoginRequest;
17 import com.assignment.payload.response.ApiResponse;
18 import com.assignment.security.jwt.JwtUtils;
19 import com.assignment.security.services.UserDetailsServiceImp;
20 import com.assignment.services.AdminService;
21
22 @RestController
23 @RequestMapping("/api")
24 public class AdminController {
25
26     @Autowired
27     private AdminService adminService;
28
29     @Autowired
```



Edit Selection View Go Run ... ← → Student-Course-RESTful-API-main

EXPLORER ... CourseController.java X

STUDENT-COURSE-REST... Student_Course_REST_API > src > main > java > com > assignment > controller > CourseController.java

- Role.java
- Student.java
- User.java
- UserRole.java
- controller
 - AdminController.java
 - CourseController.java
 - StudentController.java
- exceptions
 - CourseException.java
 - GlobleExceptionHandler.java
 - MyErrorDetails.java
 - StudentException.java
 - UserException.java
- payload
 - request
 - response
- repository
 - AdminRepo.java
 - CourseRepo.java
 - StudentRepo.java

```
1 package com.assignment.controller;
2
3 import java.util.List;
4 import org.springframework.beans.factory.annotation.Autowired;
5 import org.springframework.http.HttpStatus;
6 import org.springframework.http.ResponseEntity;
7 import org.springframework.web.bind.annotation.DeleteMapping;
8 import org.springframework.web.bind.annotation.GetMapping;
9 import org.springframework.web.bind.annotation.PathVariable;
10 import org.springframework.web.bind.annotation.PostMapping;
11 import org.springframework.web.bind.annotation.PutMapping;
12 import org.springframework.web.bind.annotation.RequestBody;
13 import org.springframework.web.bind.annotation.RequestMapping;
14 import org.springframework.web.bind.annotation.RestController;
15 import com.assignment.beans.Course;
16 import com.assignment.exceptions.CourseException;
17 import com.assignment.services.CourseService;
18
19 @RestController
20 @RequestMapping("/api")
21 public class CourseController {
22
23     @Autowired
24     private CourseService cService;
25
26     @PostMapping("/admin/register-course")
27     public ResponseEntity<Course> registerNewCourse(@RequestBody Course course) {
28         Course course1 = cService.registerNewCourse(course);
29     }
30 }
```

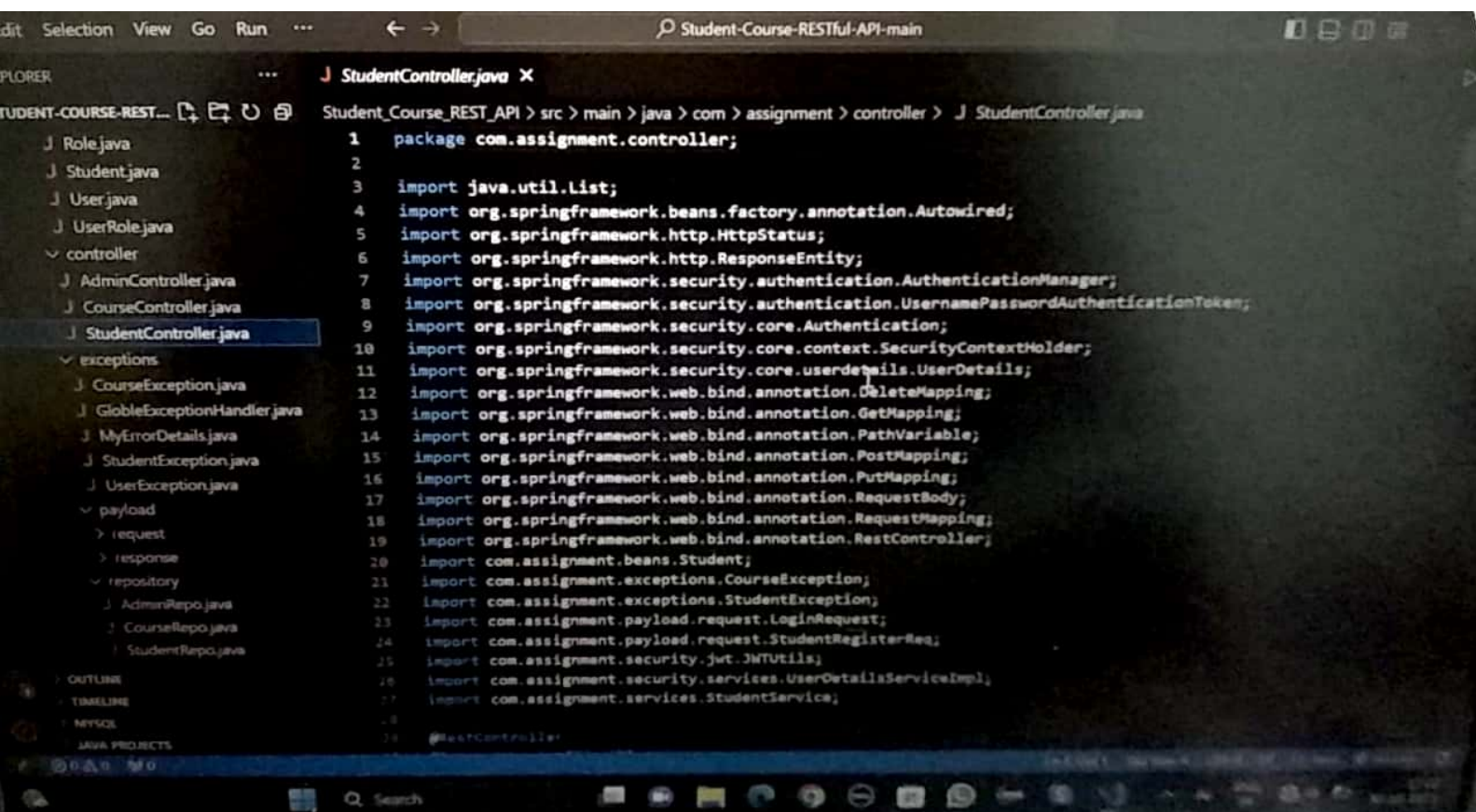

Edit Selection View Go Run ... Student-Course-RESTful-API-main

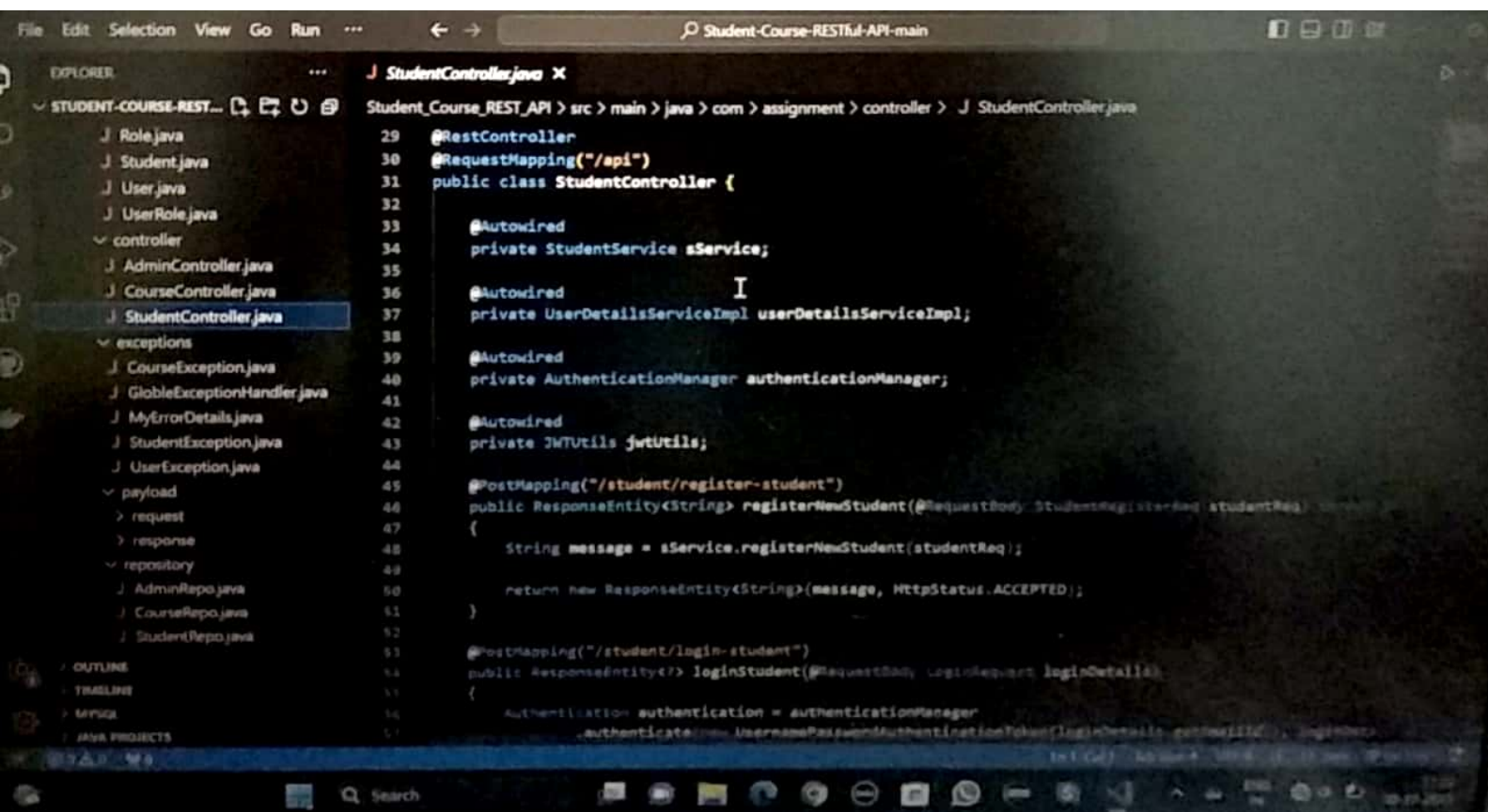
EXPLORER

- STUDENT-COURSE-REST...
- Role.java
- Student.java
- User.java
- UserRole.java
- controller
 - AdminController.java
 - CourseController.java
 - StudentController.java
- exceptions
 - CourseException.java
 - GlobleExceptionHandler.java
 - MyErrorDetails.java
 - StudentException.java
 - UserException.java
- payload
 - request
 - response
- repository
 - AdminRepo.java
 - CourseRepo.java
 - StudentRepo.java
- OUTLINE
- TIMELINE
- MYSQL
- JAVA PROJECTS

CourseController.java

```
Student_Course_REST_API > src > main > java > com > assignment > controller > CourseController.java
40 @PostMapping("/admin/register-course")
27 public ResponseEntity<Course> registerNewCourse(@RequestBody Course course) throws CourseException
28 {
29     Course course1 = cService.registerNewCourse(course);
30     return new ResponseEntity<Course>(course1, HttpStatus.ACCEPTED);
31 }
32
33 @PutMapping("/admin/update-course")
34 public ResponseEntity<Course> updateCourse(@RequestBody Course course) throws CourseException
35 {
36     Course course1 = cService.updateCourse(course);
37     return new ResponseEntity<Course>(course1, HttpStatus.ACCEPTED);
38 }
39
40 @DeleteMapping("/admin/delete-course/{courseId}")
41 public ResponseEntity<String> deleteCourse(@PathVariable("courseId") Integer courseId) throws CourseException
42 {
43     cService.deleteCourse(courseId);
44     return new ResponseEntity<String>("Course deleted...", HttpStatus.OK);
45 }
46
47 @GetMapping("/all-courses")
48 public ResponseEntity<List<Course>> viewAllCourses() throws CourseException
49 {
50     List<Course> courses = cService.viewAllCourses();
51     return new ResponseEntity<List<Course>>(courses, HttpStatus.OK);
52 }
```





Student Course BESTA4-AP1-1000

