Mini-Presentations - Round 1

Team 7 - Bennett, Dima, Francisco, Ishika, Paula

Project Specifics

- Customized bubble sheets
- Job queuing system for bubble sheet
- Multiple methods of authentication



Framework Choice

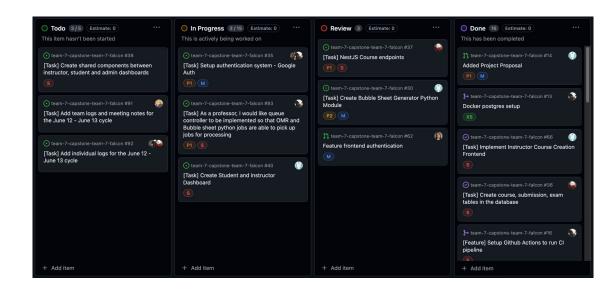
Frontend Backend





Teamwork strategy

- Team meeting for cycle planning
- Update GitHub project board
- 3. Members select tasks
- 4. SME assigned to their framework



Testing

- Integration Tests
- Unit Tests



Testing

```
Code Blame 39 lines (33 loc) · 863 Bytes
         name: CI - Tests (Backend)
          pull_request:
              - 'backend/**'
          run-tests:
            name: Run tests (Backend)
            runs-on: ubuntu-latest
                image: postgres:latest
                  POSTGRES DB: test
                  POSTGRES_USER: postgres
                  POSTGRES_HOST_AUTH_METHOD: trust
                  POSTGRES_PASSWORD:
                options: --health-cmd pg_isready --health-interval 10s --health-timeout 5s --health-retries 5
                  - 5432:5432
              - name: Checkout code
                uses: actions/checkout@v4
               - name: Set up NodeJS
                uses: actions/setup-node@v4
                  node-version: '20'
               - name: Install packages
                working-directory: ./backend
                run: npm ci
               - name: Run tests
                working-directory: ./backend
                run: npm run test
```

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
ll files	56.6	41.75 100	57.42	54.59	
src app.module.ts	0	100			
	8	100			
src/common	68.96				
errors.ts	94.73	100			
helpers.ts index.ts	11.11	100			
src/decorators	77.77	100			
roles.decorator.ts	100	100			
user.decorator.ts	68	100			
src/enums	100				
auth.enum.ts	100	100			
user.enum.ts src/guards	100	100			
auth award to	33.33				17-49
course-role.guard.ts		ō			1-77
course-role.guard.ts system-role.guard.ts	30	0		22.22	
src/modules/auth	75.43				
auth.controller.ts	46.15				22-25,40,62-77,92-103
auth.module.ts	100	100			
auth.service.ts src/modules/auth/pipes	100	100			
auth.pipe.ts	62.5		0		12-18
code-auth.pipe.ts	57.14			40	11-14
src/modules/course		33.33		38	
course.controller.ts					
course.module.ts		100			
course.service.ts	100	100	100		
src/modules/course/dto course-enroll.dto.ts	0	100	100		1-7
src/modules/course/entities	100	100	100		
course-user.entity.ts	100	100	100	100	
course.entity.ts	100		100		
src/modules/datasource					
ormconfig.ts typeorm.module.ts	8	100			1-37 1-19
rc/modules/exams/entities	100	100	100		
exam.entity.ts	188	100	100	188	
submission antitu to	100	100	100	100	
src/modules/health		100		0	
health.module.ts	9	100	100	. 0	
soundstonmentaly, is src/modules/health health.controller.ts health.module.ts src/modules/queue queue.controller.ts queue.module.ts src/modules/queue/jobs hubblescheartermation service.ts					1-92
queue module ts	8	100	100	0	
src/modules/queue/jobs	i				
bubble-sheet-creation.service.ts	0	i i			
src/modules/semesters		50			
semester.controller.ts					
semester.module.ts		100			
semester.service.ts src/modules/semesters/dto	100	100			
src/modules/semesters/dto semester-create.dto.ts	0	100			
src/modules/semesters/entities	100	100			
semester.entity.ts	100	100			
src/modules/user	80	61.76	55.55	78.78	
user.module.ts	100	100			
user.service.ts src/modules/user/dto	100	100		100	
user-edit.dto.ts	100	100	100	100	
src/modules/user/entities	100	100	100	100	
employee-user.entity.ts	100	100	100	100	
student-user.entity.ts	100		100		
user.entity.ts	100	100	100	100	

Testing - Success Criteria

```
@param res {Response} - The response object
  @param body {SemesterCreateDto} - The semester details
  @returns {Promise<Response>} - The response object
@UseGuards(AuthGuard, SystemRoleGuard)
@Roles(UserRoleEnum.ADMIN)
@Post('create')
async post(
 @Res() res: Response,
 @Body(new ValidationPipe()) body: SemesterCreateDto,
): Promise<Response> {
  trv {
   await this.semesterService.createSemester(body);
    return res.status(HttpStatus.CREATED).send({
     message: 'ok',
  } catch (e) {
   if (e instanceof SemesterCreationException) {
     return res.status(HttpStatus.BAD_REQUEST).send({
       message: e.message,
   } else {
      return res.status(HttpStatus.INTERNAL_SERVER_ERROR).send({
       message: e.message,
```

How many tests do we need for this class? 6

What we need to check:

- Is user signed in?
- Does user has ADMIN role?
- Is the request body valid?
- Is the json body returned on success?
- Are all catch statements covered?

Key Features

Authentication System

 Google OAuth - User can sign in using their credentials (email and password) or sign in using Google Account.

Courses:

- Create course Only the professor can create a course (backend routes are protected)
- Join a course Student can join a course

Semesters:

Create a semester - gives administrators the ability to manage courses

And many more...

Q&A