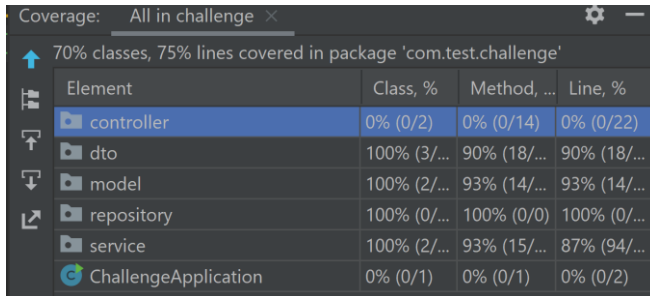


## Documentation for technical challenge

The project was built using Java 21, Spring boot and MySQL.

Test coverage covered about 75% of all lines of code.



Coverage: All in challenge ×

70% classes, 75% lines covered in package 'com.test.challenge'

| Element              | Class, %   | Method, ... | Line, %      |
|----------------------|------------|-------------|--------------|
| controller           | 0% (0/2)   | 0% (0/14)   | 0% (0/22)    |
| dto                  | 100% (3/3) | 90% (18/20) | 90% (18/20)  |
| model                | 100% (2/2) | 93% (14/15) | 93% (14/15)  |
| repository           | 100% (0/0) | 100% (0/0)  | 100% (0/0)   |
| service              | 100% (2/2) | 93% (15/16) | 87% (94/108) |
| ChallengeApplication | 0% (0/1)   | 0% (0/1)    | 0% (0/2)     |

Endpoints were tested with Postman.

Institutions endpoints:

| Method | Endpoint                           | Description   |
|--------|------------------------------------|---|
| POST   | /institutions                      | Creates an institution                                |
| GET    | /institutions/all                  | Get all institutions                                  |
| GET    | /institutions/{institutionId}      | Get all institutions by id                            |
| GET    | /institutions/data/{institutionId} | Get institutions data and users count per institution |
| UPDATE | /institutions                      | Update an institution                                 |
| DELETE | /institution/{institutionId}       | Delete an institution                                 |

Users endpoints:

| Method | Endpoint                                     | Description                            |
|--------|--|--|
| POST   | /users                                       | Creates user                           |
| POST   | /users/{userId}/institutions/{institutionId} | Set user and institutions relationship |
| GET    | /users/{usersId}                             | Get user by id                         |
| GET    | /users/institutions/{institutionId}          | Get users by institution Id            |
| GET    | /users/all                                   | Get all users                          |
| UPDATE | /users                                       | Update user                            |
| DELETE | /users/{usersId}                             | Delete user                            |
| GET    | /users/primary-institution/{institutionId}   | Get users by primary institution       |

Documentation for APIs is found in

<https://documenter.getpostman.com/view/16620528/2sAYHzG2ub>.