## **Test exam application documentation**

Test exam application where users can pass exams and see own results. There we have two roles **user** and **admin**.

## **Tables:**

```
users (id, role id (1 – admin, 2 – user), login, password, name, surname, active)
       test questions (
       id - int,
       content - longtext,
       variant one - longtext,
       variant_two - longtext,
       variant three - longtext,
       variant four - longtext,
       correct variant value – int (1,2,3 or 4)
contests (id, user_id, created_time)
       contest_questions (
       id - int,
       contest id – int,
       test_question_content - longtext,
       variant one - longtext,
       variant two - longtext,
       variant three - longtext,
       variant four - longtext,
       answer_value (1,2,3 or 4),
       user_answer_value (1,2,3,or 4),
       is correct – (1 or 2)
)
```

## **Functionality:**

- a. Admin can add/edit/delete users
- b. Admin can add/edit/delete test questions.
  - i. Our test questions is a base of all questions
  - ii. Normal user will randomly generate test from this base
- c. User can login/logout from application
- d. User can generate new test contest with 10, 20 or 30 questions
  - i. After submitting all answers, our application must calculate each test question is correct or not. (For this we user MDB and JMS)
- e. User must be able see own contest history
- f. User must be able to see own answered test and score of each contest

## Note:

Add this code for your standalone.xml file inside of tag <datasouces></datasources> if you will user wildfly server.