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| Politechnika Białostocka  Bezpieczeństwo Aplikacji Internetowych | Prowadzący: dr inż. Maciej Brzozowski |
| Temat: PS-5 SQL Injection   1. Dominik Adrian Kruk 2. Mateusz Matocha | Ocena: |

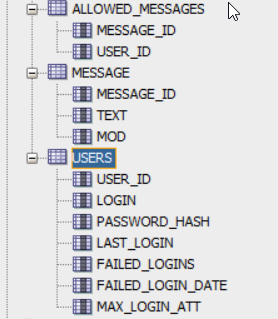
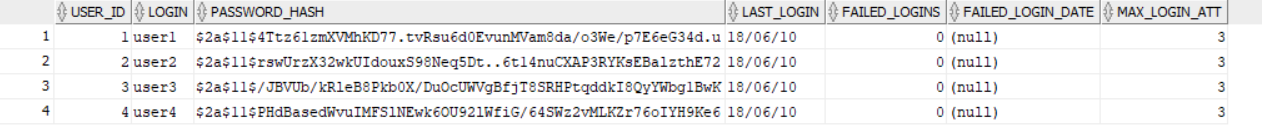
1. Specyfikacja środowiska i technologii:

Język programowania: Java EE version 1.8.171

Baza danych: Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

Technologie: Spring 4.0; Thymeleaf 3.0.9; Hibernate 5.2; HTML 5;   
System Operacyjny: Windows 10 Home Edition Wersja 10.0.17134 Kompilacja 17134  
Program do zarządzania bazą danych: Oracle SQL Developer Version 17.3.0.271  
Środowisko programistyczne(IDE): IntelliJ IDEA 2017.3.2 (Ultimate Edition)

Build #IU-173.4127.27, built on December 25, 2017

1. Wykonanie zadań:
2. Stworzenie wymaganych tabel i relacji:  
   
3. Uzupełnienie przykładowymi danymi:  
   tabela Users:  
     
   tabela Messages:

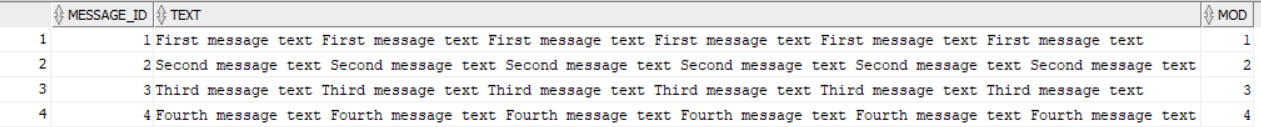
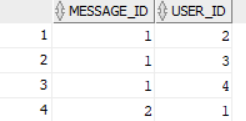
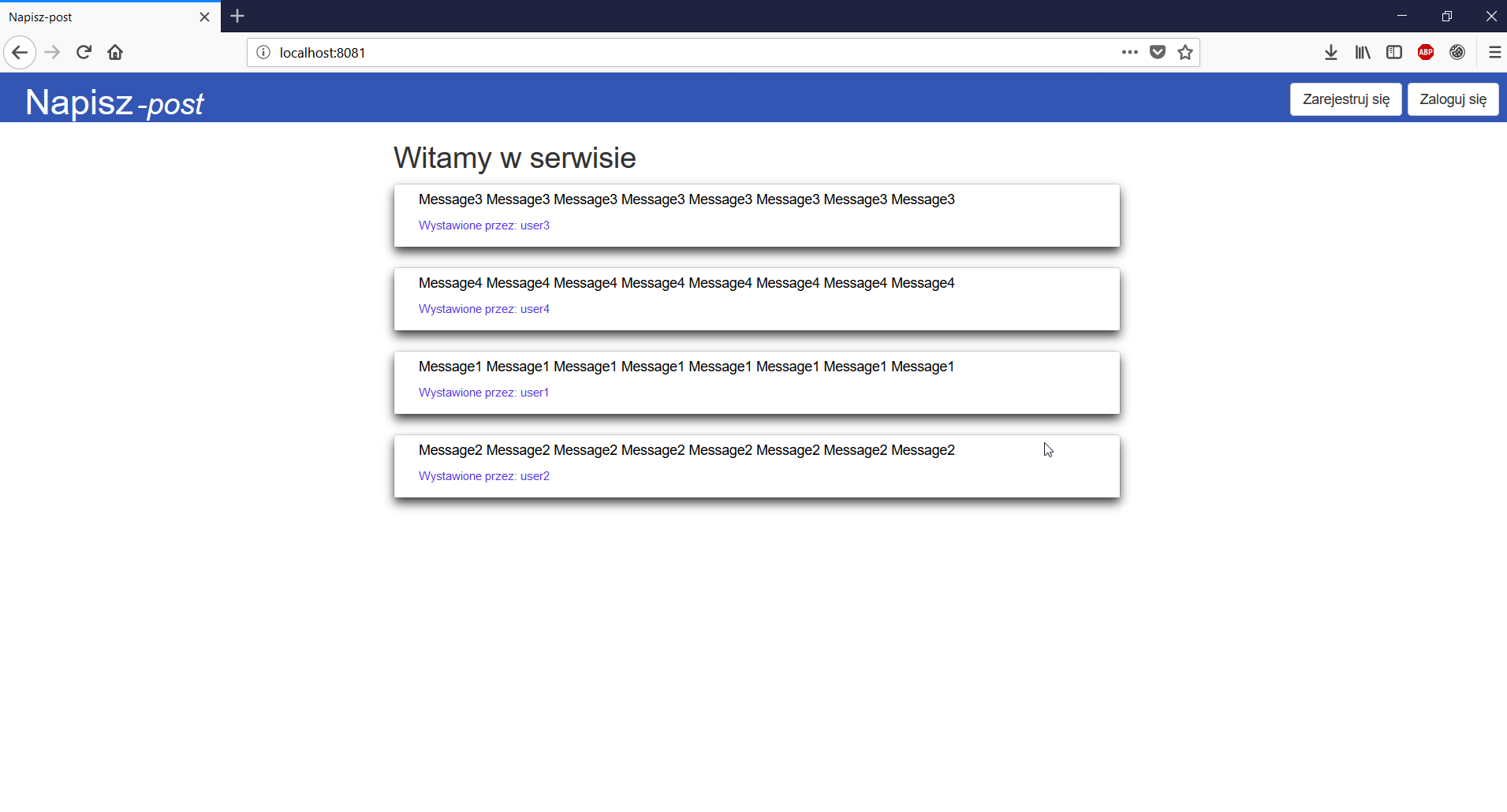


tabela Allowed\_Messages:  


1. Implementacja strony do wyświetlania wiadomości:  
   
2. Skrypty:

CREATE TABLE USERS(

USER\_ID NUMBER CONSTRAINT USERS\_PK PRIMARY KEY,

LOGIN VARCHAR2(100) UNIQUE,

PASSWORD\_HASH VARCHAR2(100),

LAST\_LOGIN DATE,

FAILED\_LOGINS NUMBER DEFAULT 0 NOT NULL,

FAILED\_LOGIN\_DATE DATE,

MAX\_LOGIN\_ATT NUMBER DEFAULT 3 NOT NULL,

CONSTRAINT USR\_MAX\_RANGE CHECK(MAX\_LOGIN\_ATT BETWEEN 3 AND 10)

);  
CREATE TABLE MESSAGE(

MESSAGE\_ID NUMBER CONSTRAINT MESSAGE\_PK PRIMARY KEY ,

TEXT VARCHAR2(200),

MOD NUMBER CONSTRAINT USERS\_FK REFERENCES USERS(USER\_ID)

);

CREATE TABLE ALLOWED\_MESSAGES (

MESSAGE\_ID NUMBER CONSTRAINT MSG\_ID\_FK REFERENCES MESSAGE(MESSAGE\_ID),

USER\_ID NUMBER CONSTRAINT USR\_ID\_FK REFERENCES USERS(USER\_ID),

CONSTRAINT ALL\_MSG\_PK PRIMARY KEY (MESSAGE\_ID, USER\_ID)

);  
insert into users values (users\_seq.nextval, 'user1','$2a$11$4Ttz61zmXVMhKD77.tvRsu6d0EvunMVam8da/o3We/p7E6eG34d.u', CURRENT\_DATE, 0, null, 3);

insert into users values (users\_seq.nextval, 'user2','$2a$11$rswUrzX32wkUIdouxS98Neq5Dt..6t14nuCXAP3RYKsEBalzthE72', CURRENT\_DATE, 0, null, 3);

insert into users values (users\_seq.nextval, 'user3','$2a$11$/JBVUb/kRleB8Pkb0X/DuOcUWVgBfjT8SRHPtqddkI8QyYWbg1BwK', CURRENT\_DATE, 0, null, 3);

insert into users values (users\_seq.nextval, 'user4','$2a$11$PHdBasedWvuIMFSlNEwk6OU92lWfiG/64SWz2vMLKZr76oIYH9Ke6', CURRENT\_DATE, 0, null, 3);

insert into message VALUES (message\_seq.nextval, 'First message text First message text First message text First message text First message text First message text', 1);

insert into message VALUES (message\_seq.nextval, 'Second message text Second message text Second message text Second message text Second message text Second message text', 2);

insert into message VALUES (message\_seq.nextval, 'Third message text Third message text Third message text Third message text Third message text Third message text', 3);

insert into message VALUES (message\_seq.nextval, 'Fourth message text Fourth message text Fourth message text Fourth message text Fourth message text Fourth message text', 4);

insert into allowed\_messages VALUES (1, 2);

insert into allowed\_messages VALUES (1, 3);

insert into allowed\_messages VALUES (1, 4);

insert into allowed\_messages VALUES (2, 1);