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Zadanie 1 - Migracja

Techniki utrzymania aplikacji

2021

1. Migracja serwera aplikacyjnego

Wybrany serwer aplikacyjny - Wildfly 25.0.0.

1. Zmiana nazw klas, których nazwy nie są unikalne w obrębie aplikacji.

```
10 10 @Stateless
11 - public class AccountFacade extends AbstractFacade<Account> {
12 12 + public class AccountFacadeAuth extends AbstractFacade<Account> {
13 13
14 14     @PersistenceContext(unitName = "ssbd06authPU")
15 15     private EntityManager em;
16 16
17 16     @Override
18 17     protected EntityManager getEntityManager() {
19 18         return em;
20 19     }
21 20
22 21 - public AccountFacade() {
23 22 + public AccountFacadeAuth() {
24 23     super(Account.class);
25 24 }
26 25 }
```

2. Zmiana odwołań do zasobu puli połączeń JDBC w plikach **persistence.xml**, **JDBCConfig.java** i **AuthenticationIdentityStore.java**.

```
<jta-data-source>java:app/jdbc/ssbd06authDS</jta-data-source>
<jta-data-source>java:jboss/jdbc/ssbd06authDS</jta-data-source>

@DataSourceDefinition(
    name = "java:app/jdbc/ssbd06authDS",
    name = "java:jboss/jdbc/ssbd06authDS",

    @DatabaseIdentityStoreDefinition(
        dataSourceLookup = "java:app/jdbc/ssbd06authDS",
        dataSourceLookup = "java:jboss/jdbc/ssbd06authDS",
```

3. Zmiana dostawcy JtaPlatform w pliku **persistence.xml**

```
<property name="hibernate.transaction.jta.platform"
    value="org.hibernate.service.jta.platform.internal.SunOneJtaPlatform"/>
    value="org.hibernate.service.jta.platform.internal.JBossAppServerJtaPlatform"/>
```

4. Usunięcie adnotacji **@Getter** pochodzącej z biblioteki Lombok w klasie **AbstractEndpoint**, w celu nadania uprawnień **PermitAll** dla metod dostępowych do prywatnych pól klasy - **lastTransactionRollback** oraz **transactionId**.

```

43 - @Getter
44 41 private boolean lastTransactionRollback;

46 + @PermitAll
47 + public boolean isLastTransactionRollback() {
48 +     return lastTransactionRollback;
49 + }
50 +

```

5. Dodanie adnotacji **@RolesAllowed** nad metodami nieposiadającymi określonej konfiguracji dostępu. Wildfly domyślnie traktuje takie metody podobnie do tych posiadających adnotację **@DenyAll** (można zmienić to zachowanie w deskrytorze wdrożenia).

```

293 293 @Override
294 + @RolesAllowed("getManagerData")
294 295 public List<AccountManagerDto> getManagersAssignedToHotel(Long hotelId) throws AppBaseException {

```

6. Wykorzystanie **javax.ejb.SessionContext** zamiast **javax.security.enterprise.SecurityContext** w przypadkach pozyskiwania loginu użytkownika. Pola typu **SessionContext** w klasach nie posiadają modyfikatora dostępu i są opatrzone adnotacją **@Resources(name="sessionContext")**.

```

33 - @Inject
34 - private SecurityContext securityContext;
35 -

43 + @Resource(name = "sessionContext")
44 + SessionContext sessionContext;

```

7. Pobieranie zawartości nagłówka **"If-Match"** przez **javax.servlet.http.HttpServletRequest**, zamiast **javax.ws.rs.core.HttpHeaders** (brak dostępu do nagłówków przy użyciu **HttpHeaders** po migracji)

```

52 57 public boolean verifyIntegrity(Signable signable) {
53 - String valueFromHeader = httpHeaders.getRequestHeader("If-Match").get(0);
58 + String valueFromHeader = httpServletRequest.getHeader("If-Match");

```

8. Utworzenie własnej implementacji mapowania grup na role w klasie **JWTAuthenticationMechanism** ze względu brak obsługi mapowania z poziomu pliku xml.

```

23 +     private static Map<String, Set<String>> mapRoles = Map.of(
24 +         "CLIENT", Stream.of("Client",
25 +             "editOwnAccountDetails",
26 +             "editOwnThemeSettings",
27 +             "editOwnAccountEmail",
28 +             "editOwnPassword",
29 +             "getOwnAccountInfo",
30 +             "logoutUser",
31 +             "refreshToken",
32 +             "addHotelRating",
33 +             "deleteHotelRating",
34 +             "updateHotelRating",
35 +             "getHotelRating",
36 +             "bookReservation",
37 +             "cancelReservation",
38 +             "getAllActiveReservations",
39 +             "getAllArchiveReservations",
40 +             "getEndedBookingsForHotel",
41 +             "getReservation",
42 +             "getAllCities",
43 +             "getAllBoxes",
44 +             "editOwnLanguage",
45 +             "getHotelForBooking").collect(Collectors.toSet()),
46 +         "MANAGER", Stream.of("Manager",
47 +             "editOwnAccountDetails",
48 +             "editOwnThemeSettings",
49 +             "editOwnAccountEmail",
50 +             "editOwnPassword",
51 +             "getOwnAccountInfo",
52 +             "logoutUser",
53 +             "refreshToken",
54 +             "updateOwnHotel",
55 +             "generateReport",
56 +             "getHotelRating",
57 +             "cancelReservation",
58 +             "endReservation",
59 +             "startReservation",
60 +             "getAllActiveReservations",
61 +             "getAllArchiveReservations",
62 +             "getReservation",
63 +             "getAllCities",
64 +             "getCity",
65 +             "addBox",
66 +             "deleteBox",
67 +             "updateBox",
68 +             "getAllBoxes",
69 +             "editOwnLanguage",
70 +             "getOwnHotelInfo",
71 +             "getHotelForBooking").collect(Collectors.toSet()),

```

```

72 +         "ADMIN", Stream.of("Admin",
73 +             "getHotelForBooking",
74 +             "getOtherHotelInfo",
75 +             "editOwnLanguage",
76 +             "getCity",
77 +             "getAllCities",
78 +             "updateCity",
79 +             "deleteCity",
80 +             "addCity",
81 +             "getHotelRating",
82 +             "hideHotelRating",
83 +             "deleteManagerFromHotel",
84 +             "addManagerToHotel",
85 +             "updateOtherHotel",
86 +             "deleteHotel",
87 +             "addHotel",
88 +             "getAllManagers",
89 +             "getManagerData",
90 +             "refreshToken",
91 +             "logoutUser",
92 +             "changeAccessLevel",
93 +             "getOtherAccountInfo",
94 +             "getOwnAccountInfo",
95 +             "getAllAccounts",
96 +             "editOtherPassword",
97 +             "editOwnPassword",
98 +             "unlockAccount",
99 +             "blockAccount",
100 +             "editOtherAccountEmail",
101 +             "editOwnAccountEmail",
102 +             "editOtherAccountDetails",
103 +             "editOwnThemeSettings",
104 +             "editOwnAccountDetails",
105 +             "deleteAccessLevel",
106 +             "addAccessLevel").collect(Collectors.toSet()));

```

```

140 +
141 +         Set<String> stringSet = Arrays.stream(roles.split(","))
142 +             .map(x -> mapRoles.get(x))
143 +             .flatMap(Collection::stream)
144 +             .collect(Collectors.toSet());
145 +
146         return httpMessageContext
147 -             .notifyContainerAboutLogin(login, new HashSet<>(Arrays.asList(roles.split(","))));
147 +             .notifyContainerAboutLogin(login, stringSet);

```

9. Po uruchomieniu serwera aplikacyjnego należało wykonać polecenie:

```
/subsystem=undertow/application-security-domain=other:write-attribute(name=integrated-jaspi, value=false)
```

Domyślnie wykorzystywany jest Security Domain o nazwie other. Przy użyciu powyższego polecenia wyłączono integrację z JASPI, przez co Security Domain nie korzysta z mechanizmu realm.

10. Usunięcie deskryptora **payara-web.xml**.

2. Migracja bazy danych

Wybrany serwer baz danych - MariaDB latest (10.6.4).

1. Stworzenie konfiguracji **docker-compose** dla **mariadb**.

```
mariadb:
  image: mariadb
  environment:
    MYSQL_DATABASE: wordpress
    MYSQL_USER: wordpress
    MYSQL_PASSWORD: wordpress
    MYSQL_ROOT_PASSWORD: wordpress
  volumes:
    - ./mariadb:/var/lib/mysql
  ports:
    - "127.0.0.1:3306:3306"
```

2. Zmiana sterownika jdbc z postgresql na **mariadb-java-client** w pliku **pom.xml**.

```
<dependency>
  <groupId>org.mariadb.jdbc</groupId>
  <artifactId>mariadb-java-client</artifactId>
  <version>2.7.4</version>
</dependency>
```

3. Zmiany wprowadzone w pliku **persistence.xml**
 - a. Wskazanie klasy sterownika jdbc na **org.mariadb.jdbc.Driver**
 - b. Zmiana dialektu na **org.hibernate.dialect.MariaDB103Dialect**,

-	<property name="hibernate.connection.driver_class" value="org.postgresql.Driver"/>
-	<property name="hibernate.dialect" value="org.hibernate.dialect.PostgreSQL10Dialect"/>
11 +	<property name="hibernate.connection.driver_class" value="org.mariadb.jdbc.Driver"/>
12 +	<property name="hibernate.dialect" value="org.hibernate.dialect.MariaDB103Dialect"/>

4. Zmiany wprowadzone w **JDBCConfig.java**
 - a. Zmiana klasy odpowiedzialnej za źródło danych na **org.mariadb.jdbc.MariaDbDataSource**,

- b. Zmiana danych uwierzytelniających na zgodne z MariaDB.

5. Zmiany w klasach encji

- a. Zmiana generatora sekwencyjnego na

GeneratorType.IDENTITY,

67	@Id
-	@GeneratedValue(strategy = GenerationType.SEQUENCE, generator = "seq_account_id")
-	@SequenceGenerator(name = "seq_account_id", allocationSize = 1)
68 +	@GeneratedValue(strategy = GenerationType.IDENTITY)
69	@Column(name = "id", updatable = false, unique = true)
70	private Long id;

- b. Zmiana nazwy kolumny w encji Box, na **deleted** ze względu na wykorzystanie zarezerwowanego słowa.

-	@Column(name = "delete")
96 +	@Column(name = "deleted")
97	private boolean delete = false;

6. Zmiany w skryptach bazy danych

- a. tworzenie (**create.sql**)

- i. Dostosowanie składni kwerend do wymagań MariaDB,


```

64 1 create table account
65 2 (
66 - id bigint not null,
67 - creation_date timestamp not null,
68 - modification_date timestamp,
3 + id bigint not null auto_increment,
4 + creation_date datetime not null,
5 + modification_date datetime,
69 6 version bigint not null,
70 7 confirmed boolean not null,
71 8 contact_number varchar(15),
72 9 enabled boolean not null,
73 10 failed_login_attempts_counter integer default 0,
74 11 firstname varchar(31) not null,
75 12 language varchar(2),
76 - last_failed_login_date timestamp,
13 + last_failed_login_date datetime,
77 14 last_failed_login_ip_address varchar(39),
78 15 theme_color varchar(31) not null,
79 - last_successful_login_date timestamp,
16 + last_successful_login_date datetime,
80 17 last_successful_login_ip_address varchar(39),
81 - enable_modification_date timestamp,
82 - confirm_modification_date timestamp,
83 - email_modification_date timestamp,
84 - password_modification_date timestamp,
18 + enable_modification_date datetime,
19 + confirm_modification_date datetime,
20 + email_modification_date datetime,
21 + password_modification_date datetime,
85 22 enable_modification_by bigint,
86 23 confirm_modification_by bigint,
87 24 email_modification_by bigint,
88 25 password_modification_by bigint,
89 26 lastname varchar(31) not null,
90 27 login varchar(127) not null,
91 28 email varchar(127) not null,
92 29 new_email varchar(127),
93 30 password varchar(64) not null,
94 31 created_by bigint not null,
95 32 modified_by bigint,
96 33 constraint pk_account_id
97 34 primary key (id),
98 35 constraint uk_account_contact_number
99 36 unique (contact_number),
100 37 constraint uk_account_login
101 38 unique (login),
102 39 constraint uk_account_email
103 40 unique (email),
104 41 constraint fk_account_account_created_by
105 - foreign key (created_by) references account,
42 + foreign key (created_by) references account(id),
106 43 constraint fk_account_account_modified_by
107 - foreign key (modified_by) references account,
44 + foreign key (modified_by) references account(id),
108 45 constraint account_failed_login_attempts_counter_check
109 46 check (failed_login_attempts_counter >= 0)

```

ii. Usunięcie generatorów sekwencyjnych, na rzecz **AUTO_INCREMENT**.

b. dane inicjujące (**init.sql**)

i. zmiana nazwy pola w tabeli box z **delete** na **deleted**

ii. zmiana sposobu inicjalizacji dat - MariaDB dostarcza metody **SUBDATE** i **ADDDATE** przez co **now() - INTERVAL '1 week'** zostało zmienione w **SUBDATE(now(), INTERVAL 1 week)**.

```

74 74 -- Inicjalizacja boxów
75 - INSERT INTO box (id, creation_date, modification_date, version, animal_type, price_per_day, description, delete, created_by, modified_by, hotel_id)
75 + INSERT INTO box (id, creation_date, modification_date, version, animal_type, price_per_day, description, deleted, created_by, modified_by, hotel_id)
76 - VALUES (-1, now(), null, 1, 0, 55.55, 'Duża klatka dla psa', false, -2, null, -1),
77 - (-2, now(), null, 1, 0, 55.55, 'Duża klatka dla psa', false, -2, null, -1),
78 - (-3, now(), null, 1, 1, 39.99, 'Standardowa klatka dla kota', false, -2, null, -1),
79 - (-4, now(), null, 1, 2, 43.90, 'Mała klatka dla gryzonia', false, -2, null, -1),
80 - (-5, now(), null, 1, 3, 29.99, 'Mała klatka dla ptaka', false, -3, null, -2),
81 - (-6, now(), null, 1, 4, 35.22, 'Duża klatka dla królika', false, -3, null, -2),
82 - (-7, now(), null, 1, 5, 49.90, 'Akwarium dla jaszczurki', false, -3, null, -2),
83 - (-8, now(), null, 1, 0, 39.90, 'Mała klatka dla psa', false, -5, null, -3),
84 - (-9, now(), null, 1, 0, 29.99, 'Mała klatka dla psa', false, -5, null, -3),
85 - (-10, now(), null, 1, 0, 34.90, 'Mała klatka dla psa', false, -5, null, -3),
86 - (-11, now(), null, 1, 1, 43.44, 'Mała klatka dla kota', false, -6, null, -4),
87 - (-12, now(), null, 1, 3, 32.14, 'Standardowa klatka dla ptaka', false, -6, null, -4),
88 - (-13, now(), null, 1, 4, 48.49, 'Duża klatka dla królika', false, -6, null, -4),
89 - (-14, now(), null, 1, 6, 29.44, 'Akwarium dla żółwia', false, -6, null, -4);
90
91 91 -- Inicjalizacja rezerwacji
92 92 INSERT INTO booking (id, creation_date, modification_date, version, date_from, date_to, price, status, created_by, modified_by, account_id)
93 - VALUES (-1, now(), null, 1, current_timestamp, current_timestamp + INTERVAL '1 week', 388.85, 2, -4, null, -4),
94 - (-2, now() - INTERVAL '1 week', null, 1, now() - INTERVAL '1 week', current_timestamp - INTERVAL '5 day', 191.08, 3, -4, null, -4),
95 - (-3, now(), null, 1, current_timestamp + INTERVAL '1 week', current_timestamp + INTERVAL '2 week', 209.93, 3, -7, null, -7),
96 - (-4, now() - INTERVAL '1 week', null, 1, now() - INTERVAL '1 week', current_timestamp - INTERVAL '3 day', 175.60, 3, -9, null, -9),
97 - (-5, now() - INTERVAL '1 week', null, 1, now() - INTERVAL '1 week', current_timestamp - INTERVAL '3 day', 215.93, 3, -7, null, -7);
98 + VALUES (-1, now(), null, 1, current_timestamp, ADDDATE(current_timestamp, INTERVAL 1 week), 388.85, 2, -4, null, -4),
99 + (-2, SUBDATE(now(), INTERVAL 1 week), null, 1, SUBDATE(now(), INTERVAL 1 week), SUBDATE(current_timestamp, INTERVAL 5 day), 191.08, 3, -4, null, -4),
100 + (-3, now(), null, 1, ADDDATE(current_timestamp, INTERVAL 1 week), ADDDATE(current_timestamp, INTERVAL 2 week), 209.93, 3, -7, null, -7),
101 + (-4, SUBDATE(now(), INTERVAL 1 week), null, 1, SUBDATE(now(), INTERVAL 1 week), SUBDATE(current_timestamp, INTERVAL 3 day), 175.60, 3, -9, null, -9),
102 + (-5, SUBDATE(now(), INTERVAL 1 week), null, 1, SUBDATE(now(), INTERVAL 1 week), SUBDATE(current_timestamp, INTERVAL 3 day), 267.00, 3, -7, null, -7);
103
104 104 -- Inicjalizacja booking line
105 105 INSERT INTO booking_line(id, creation_date, modification_date, version, price_per_day, created_by, modified_by,
106 106 booking_id, box_id)
107 107 VALUES (-1, now(), null, 1, 55.55, -4, null, -1, -1),
108 - (-2, now() - INTERVAL '1 week', null, 1, 55.55, -4, null, -2, -2),
109 - (-3, now() - INTERVAL '1 week', null, 1, 39.99, -4, null, -2, -3),
110 - (-4, SUBDATE(now(), INTERVAL 1 week), null, 1, 55.55, -4, null, -2, -2),
111 + (-3, SUBDATE(now(), INTERVAL 1 week), null, 1, 39.99, -4, null, -2, -3),
112 - (-4, now(), null, 1, 29.99, -7, null, -3, -5),
113 - (-5, now() - INTERVAL '1 week', null, 1, 43.90, -9, null, -4, -11),
114 - (-6, now() - INTERVAL '1 week', null, 1, 66.75, -7, null, -5, -4);
115 + (-5, SUBDATE(now(), INTERVAL 1 week), null, 1, 43.90, -9, null, -4, -11),
116 + (-6, SUBDATE(now(), INTERVAL 1 week), null, 1, 66.75, -7, null, -5, -4);
117
118 118

```

c. tworzenie kont bazodanowych, przyznanie uprawnień do tabel (**grant.sql**)

- i. Dostosowanie składni do wymagań MariaDB,
- ii. Rozszerzenie funkcjonalności o tworzenie nowych użytkowników.

```

1 - GRANT SELECT, UPDATE, DELETE, INSERT ON account TO ssbd06mok;
2 - GRANT SELECT, UPDATE, DELETE, INSERT ON pending_code TO ssbd06mok;
3 - GRANT SELECT, UPDATE, DELETE, INSERT ON role TO ssbd06mok;
4 - GRANT SELECT, UPDATE, DELETE, INSERT ON admin_data TO ssbd06mok;
5 - GRANT SELECT, UPDATE, DELETE, INSERT ON manager_data TO ssbd06mok;
6 - GRANT SELECT, UPDATE, DELETE, INSERT ON client_data TO ssbd06mok;
7 - GRANT SELECT ON booking TO ssbd06mok;
8 - GRANT SELECT ON booking_line TO ssbd06mok;
9 - GRANT SELECT ON box TO ssbd06mok;
10 - GRANT SELECT ON city TO ssbd06mok;
11 - GRANT SELECT ON hotel TO ssbd06mok;
12 - GRANT SELECT ON rating TO ssbd06mok;
13 1 + CREATE USER IF NOT EXISTS 'ssbd06admin'@'%' IDENTIFIED BY 'zaql@WSX';
14 2 + CREATE USER IF NOT EXISTS 'ssbd06mok'@'%' IDENTIFIED BY 'zaql@WSX';
15 3 + CREATE USER IF NOT EXISTS 'ssbd06moh'@'%' IDENTIFIED BY 'zaql@WSX';
16 4 + CREATE USER IF NOT EXISTS 'ssbd06auth'@'%' IDENTIFIED BY 'zaql@WSX';
17 5
18 - GRANT SELECT ON account TO ssbd06moh;
19 - GRANT SELECT ON pending_code TO ssbd06moh;
20 - GRANT SELECT, UPDATE ON role TO ssbd06moh;
21 - GRANT SELECT ON admin_data TO ssbd06moh;
22 - GRANT SELECT ON client_data TO ssbd06moh;
23 - GRANT SELECT, UPDATE, DELETE, INSERT ON booking TO ssbd06moh;
24 - GRANT SELECT, UPDATE, DELETE, INSERT ON booking_line TO ssbd06moh;
25 - GRANT SELECT, UPDATE, DELETE, INSERT ON box TO ssbd06moh;
26 - GRANT SELECT, UPDATE, DELETE, INSERT ON city TO ssbd06moh;
27 - GRANT SELECT, UPDATE, DELETE, INSERT ON hotel TO ssbd06moh;
28 - GRANT SELECT, UPDATE ON manager_data TO ssbd06moh;
29 - GRANT SELECT, UPDATE, DELETE, INSERT ON rating TO ssbd06moh;
30 6 + USE wordpress;
31 7
32 - GRANT SELECT ON auth_view TO ssbd06auth;
33 8 + GRANT SELECT, UPDATE, DELETE, INSERT ON account TO 'ssbd06mok'@'%' ;
34 9 + GRANT SELECT, UPDATE, DELETE, INSERT ON pending_code TO 'ssbd06mok'@'%' ;
35 10 + GRANT SELECT, UPDATE, DELETE, INSERT ON role TO 'ssbd06mok'@'%' ;
36 11 + GRANT SELECT, UPDATE, DELETE, INSERT ON admin_data TO 'ssbd06mok'@'%' ;
37 12 + GRANT SELECT, UPDATE, DELETE, INSERT ON manager_data TO 'ssbd06mok'@'%' ;
38 13 + GRANT SELECT, UPDATE, DELETE, INSERT ON client_data TO 'ssbd06mok'@'%' ;
39 14 + GRANT SELECT ON booking TO 'ssbd06mok'@'%' ;
40 15 + GRANT SELECT ON booking_line TO 'ssbd06mok'@'%' ;
41 16 + GRANT SELECT ON box TO 'ssbd06mok'@'%' ;
42 17 + GRANT SELECT ON city TO 'ssbd06mok'@'%' ;
43 18 + GRANT SELECT ON hotel TO 'ssbd06mok'@'%' ;
44 19 + GRANT SELECT ON rating TO 'ssbd06mok'@'%' ;
45 20
46 - GRANT SELECT, USAGE ON SEQUENCE seq_account_id TO ssbd06mok;
47 - GRANT SELECT, USAGE ON SEQUENCE seq_booking_id TO ssbd06mok;
48 - GRANT SELECT, USAGE ON SEQUENCE seq_booking_line_id TO ssbd06mok;
49 - GRANT SELECT, USAGE ON SEQUENCE seq_box_id TO ssbd06mok;
50 - GRANT SELECT, USAGE ON SEQUENCE seq_city_id TO ssbd06mok;
51 - GRANT SELECT, USAGE ON SEQUENCE seq_hotel_id TO ssbd06mok;
52 - GRANT SELECT, USAGE ON SEQUENCE seq_pending_code_id TO ssbd06mok;
53 - GRANT SELECT, USAGE ON SEQUENCE seq_rating_id TO ssbd06mok;
54 - GRANT SELECT, USAGE ON SEQUENCE seq_role_id TO ssbd06mok;
55 21 + GRANT SELECT ON account TO 'ssbd06moh'@'%' ;
56 22 + GRANT SELECT ON pending_code TO 'ssbd06moh'@'%' ;
57 23 + GRANT SELECT, UPDATE ON role TO 'ssbd06moh'@'%' ;
58 24 + GRANT SELECT ON admin_data TO 'ssbd06moh'@'%' ;
59 25 + GRANT SELECT ON client_data TO 'ssbd06moh'@'%' ;
60 26 + GRANT SELECT, UPDATE, DELETE, INSERT ON booking TO 'ssbd06moh'@'%' ;
61 27 + GRANT SELECT, UPDATE, DELETE, INSERT ON booking_line TO 'ssbd06moh'@'%' ;
62 28 + GRANT SELECT, UPDATE, DELETE, INSERT ON box TO 'ssbd06moh'@'%' ;
63 29 + GRANT SELECT, UPDATE, DELETE, INSERT ON city TO 'ssbd06moh'@'%' ;
64 30 + GRANT SELECT, UPDATE, DELETE, INSERT ON hotel TO 'ssbd06moh'@'%' ;
65 31 + GRANT SELECT, UPDATE ON manager_data TO 'ssbd06moh'@'%' ;
66 32 + GRANT SELECT, UPDATE, DELETE, INSERT ON rating TO 'ssbd06moh'@'%' ;
67 33
68 - GRANT SELECT, USAGE ON SEQUENCE seq_account_id TO ssbd06moh;
69 - GRANT SELECT, USAGE ON SEQUENCE seq_booking_id TO ssbd06moh;
70 - GRANT SELECT, USAGE ON SEQUENCE seq_booking_line_id TO ssbd06moh;
71 - GRANT SELECT, USAGE ON SEQUENCE seq_box_id TO ssbd06moh;
72 - GRANT SELECT, USAGE ON SEQUENCE seq_city_id TO ssbd06moh;
73 - GRANT SELECT, USAGE ON SEQUENCE seq_hotel_id TO ssbd06moh;
74 - GRANT SELECT, USAGE ON SEQUENCE seq_pending_code_id TO ssbd06moh;
75 - GRANT SELECT, USAGE ON SEQUENCE seq_rating_id TO ssbd06moh;
76 - GRANT SELECT, USAGE ON SEQUENCE seq_role_id TO ssbd06moh;
77 34 + GRANT SELECT ON auth_view TO 'ssbd06auth'@'%' ;

```

Odpowiednie skrypty zostały dołączone do plików konfiguracyjnych zawartych w archiwum stanowiącym rozwiązanie zadania. W celu prawidłowej inicjalizacji bazy należy połączyć się z bazą danych, a następnie wykonać skrypty sql z katalogu db-scripts w następującej kolejności: create.sql, init.sql, grant.sql.

7. Zrzuty ekranu prezentujące pomyślny proces uwierzytelnienia w aplikacji wdrożonej na lokalny serwer aplikacyjny:

Purrfection

Hotele dla zwierząt

Strona główna

Hotele

Tryb ciemny

Język [PL]

Zarejestruj się

Zaloguj się

Strona główna / Logowanie

Logowanie

mchrzan

••••••••

Zaloguj się

Resetuj hasło

© SSBD202106

Purrfection

Hotele dla zwierząt

Hotele

Mój hotel

Aktywne rezerwacje

Archiwalne rezerwacje

Tryb ciemny

Język [PL]

mchrzan

Strona główna / Widok menedżera

Witaj, mchrzan

Manager

Administrator

Zmień poziom dostępu

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