Login Module

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Required:

- 1. Spring Technology 4.0.3 Version
- 2. Hibernate 4 Version
- 3. STS
- 4. Eclipse Luna (optional)
- 5. Maven (m2e plugin) (optional)
- 6. email jar (optional)
- 7. sms jar (optional)

Java classes (Entities only)

- 1. Role
- 2. User
- 3. UserDetails

Role.java

```
@Entity
@Table(name="role")
public class Role {

    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int id;

    @Column(name="role_name")
    private String role_name;
```

User.java

```
@Entity
@Table(name="user")
public class User {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int id;
   @Column(name="email_id")
    private String username;
    @Column(name="password")
    private String password;
    @Column(name = "act_status")
    private boolean actStatus;
    @Column(name = "mobile no")
    private boolean mobileNo;
    @OneToOne
    @JoinColumn(name = "role id")
    private Role role;
```

UserDetails.java

```
@Entity
@Table(name="user details")
public class UserDetails {
    @Id
    @GeneratedValue(strategy=GenerationType.AUTO)
    private int id;
    @Column(name="dob")
    private Date dateOfBirth;
    @Column(name="area")
    private String area;
    @Column(name="city")
    private String city;
    @Column(name="district")
    private String district;
    @Column(name="state")
    private String state;
    @OneToOne
    @JoinColumn(name="user_id")
    private User user;
```

Hibernate snapshot

```
<beens:bean id="dataSource" class="org.apache.commons.dbcp.BasicDataSource"</pre>
    destroy-method="close">
    <beans:property name="driverClassName" value="com.mysql.jdbc.Driver" />
    <beans:property name="url"</pre>
        value="idbc:mysql://localhost:3306/librarymant" />
    <beans:property name="username" value="root" />
    <beans:property name="password" value="" />
</beans:bean>
<!-- Hibernate 4 SessionFactory Bean definition -->
<beans:bean id="hibernate4AnnotatedSessionFactory"</pre>
    class="org.springframework.orm.hibernate4.LocalSessionFactoryBean">
    <beans:property name="dataSource" ref="dataSource" />
    <beans:property name="packagesToScan">
        <beans:list>
            <beans:value>com.sunbeam</beans:value>
        </beans:list>
    </beans:property>
    <beans:property name="hibernateProperties">
        <beans:props>
            <beans:prop key="hibernate.dialect">org.hibernate.dialect.MySQLDialect
            </beans:prop>
            <beans:prop key="hibernate.show sql">true</beans:prop>
            <beans:prop key="hibernate.hbm2ddL.auto">update/beans:prop>
        </beans:props>
    </beans:property>
</beans:bean>
```

Hibernate Magic (Create tables from Entities)

Add this below property to hibernate.cnf.xml

<beans:prop key="hibernate.hbm2ddl.auto"> update </beans:prop>

This will create tables schemas and relationships.

Database Design

- 1. Role
 - a. id (int auto) (primary key)
 - b. role_name (varchar 30)

- 2. User (one to many relation)
 - a. id (int auto) (primary key)
 - b. email_id (varchar 50)
 - c. password (varchar 50)
 - d. email_authentication (bit 0)
 - e. act_status (bit 0)
 - f. mobile_no (varchar 10)
 - g. role_id (foreign key)

- 3. UserDetails (one to one relation)
 - a. id (int auto) (primary key)
 - b. dob (Date)
 - c. area (varchar 25)
 - d. city (varchar 25)
 - e. district (varchar 25)
 - f. state (varchar 25)
 - g. pin_code (varchar 6)
 - h. user_id (foreign key)

Redirect to respective User Home page

```
User user = userService.getUser(username, password)
if(user !== null){
    if(user.getActStatus){
        switch(user.getRole().getId()){
            case 0 : return modelMap.add("result", user, "admin");
            case 1 : return modelMap.add("result", user, "owner");
            default : return modelMap.add("result", user, "student");
    }else{
        return modelMap.add("error", "Act not activated yet, Kindly contact to admin -
        admin@sunbeam.com");
else{
    return modelMap.add("error", "Invalid Username or Password");
```

Functionality you can achieve:

- 1. Login
- 2. Registration
- 3. Email Authentication
- 4. Account Activation
- 5. Change Password
- 6. Forgot Password
- 7. Redirect to respective page
- 8. Send Birthday Greeting Emails (Optional)
- 9. Recommendation emails (Optional)