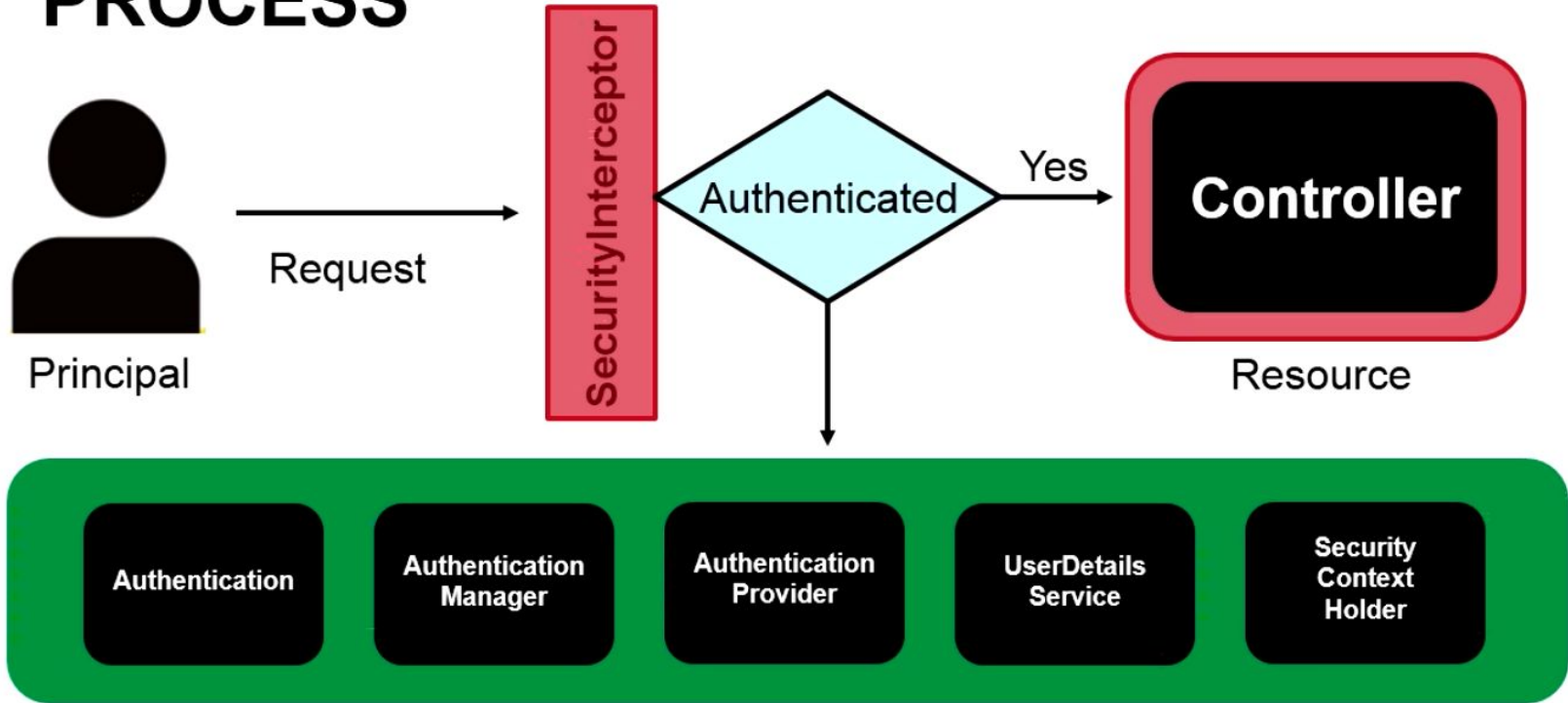


DAO Based Authentication

Spring Security Process

PROCESS



UserDetailsService

- Configure Authentication Manager

```
@Autowired
public void configureGlobal(AuthenticationManagerBuilder auth) {
    auth.userDetailsService(userDetailsService);
}
```

- Retrieving details of the user used for authentication

```
@Component
public class CustomUserDetailsService implements UserDetailsService {

    private final IPlayerService userService;

    @Override
    public UserDetails loadUserByUsername(String username) throws UsernameNotFoundException { ...
    }
}
```

UserDetails

- Principal

```
public class SecurityUser implements UserDetails {  
    @Override  
    public Collection<GrantedAuthority> getAuthorities() {  
        return authorities;  
    }  
  
    @Override  
    public String getPassword() {  
        return password;  
    }  
  
    @Override  
    public String getUsername() {  
        return username;  
    }  
  
    @Override  
    public boolean isCredentialsNonExpired() {  
        return true;  
    }  
}
```

Managing Roles

```
@Entity
@Table(name = "s_role")
public class Role implements Serializable {
    private static final long serialVersionUID = 1L;
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Integer id;

    @Column(name = "ROLE_NAME", nullable = false)
    private String roleName;

    @ManyToMany(cascade = CascadeType.PERSIST)
    @JoinTable(name = "ROLE_PLAYER",
        joinColumns = @JoinColumn(name = "ROLE_ID", referencedColumnName = "ID"),
        inverseJoinColumns = @JoinColumn(name = "PLAYER_ID", referencedColumnName = "ID"))
    private List<Player> player;
}
```

Tying Together

- Loading Roles

```
@Query("select r.roleName from Role r left join r.player p where p.credentials.username = :userName")  
List<String> findPlayerRoles(@Param("userName") String userName);
```

- Adding Roles to Security User

```
@Override  
public UserDetails loadUserByUsername(String userName)  
    throws UsernameNotFoundException {  
    Player user = userService.findByUsername(userName);  
    List<String> roles = userService.findPlayerRoles(userName);  
    return new SecurityUser(user, roles);  
}
```