

# Train Ticket System – Group 4

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## QA Scenario 1: Security through Group Permissions

<b>Stimulus Source</b>	User of the System
<b>Artifact</b>	Admin Portal /Admin Controller
<b>Stimulus</b>	User of the System tries to access the admin portal
<b>Environment</b>	runtime
<b>Response</b>	System checks current user group permissions and determines if the user is allowed access to the admin portal or not. The User is taken to the admin portal if permission is granted otherwise they are shown an error.
<b>Response Measure</b>	Immediately
<b>Code Location</b>	AdminController.java: Line 39

## QA Scenario 2: Modifiability

<b>Stimulus Source</b>	Admin of the System
<b>Artifact</b>	OAuth2 Authentication
<b>Stimulus</b>	An admin wishes to add additional authentication providers to the system for users to authenticate themselves through. Admin added configuration for additional providers.
<b>Environment</b>	configuration/build
<b>Response</b>	Admin is able to add any number of supported oauth providers.

<b>Response Measure</b>	New Oauth provider is available immediately after rebuild of system
<b>Code Location</b>	Application.properties; base.html

### QA Scenario 3: Interoperability

<b>Stimulus Source</b>	User of the System
<b>Artifact</b>	Authentication
<b>Stimulus</b>	A User wishes to authenticate themselves as a user of the system. They must rely on a 3rd party authentication provider such as github to manage the request.
<b>Environment</b>	runtime
<b>Response</b>	OAuth providers confirm or deny identity. If confirmed, oauth provider provides an external ID that may be used to match each OAuth user to a user account within the system.
<b>Response Measure</b>	Immediately
<b>Code Location</b>	UserController.java Line 72, 34, 79