KenyaUI App-based Security

KenyaUI provides a simple security model which is based around App Framework apps. All accessible URLs are associated with apps. Access to that URL is then determined by access to the associated app(s).

A set of annotations are provided which can be applied to UI Framework page controllers to make the different types of associations between apps and pages:

Annotation	Description	Examples
none	Page has no associated app but *cannot* be accessed by unauthenticated users	```public class ProfilePageController {...}```
@PublicPage	Page has no associated app and *can* be accessed by unauthenticated users	```@PublicPage public class LoginPageController {...}```
@AppPage	Page has a single associated app specified by the annotation and can be accessed by users who have access to that app	```@AppPage("kenyaemr.registration") public class RegistrationHomePageController {...}```
@SharedPage	Page is shared by multiple apps and the *appId* request parameter specifies the current app. Page can be accessed by users who have access to the current app. Annotation can optionally specify a list of allowed apps.	```@SharedPage public class EnterFormPageController {...}``` ```@SharedPage({"kenyaemr.clinician","kenyaemr.chart"}) public class RegimenEditorPageController {...}```

Another set of annotations can be applied to fragment actions to associate them with apps:

Annotation	Description	Examples
none	Action has no associated app but *cannot* be accessed by unauthenticated users	```public class ProfileFragmentController { public Object getStatus() {...} }```
@PublicAction	Action has no associated app and *can* be accessed by unauthenticated users	```public class LoginFragmentController { @PublicAction public Object authenticate() {...} }```
@AppAction	Action has a single associated app specified by the annotation and can be accessed by users who have access to that app	```public class RegistrationFragmentController { @AppAction ("kenyaemr.registration") public Object register() {...} }```

`@SharedAction`	Action is shared by multiple apps and the *appId* request parameter specifies the current app. Action can be accessed by users who have access to the current app. Annotation can optionally specify a list of allowed apps.	`public class FormFragmentController {`
		`  @SharedAction`
		`  public Object getFormHtml() {...}`
		`}`

The following rules apply when processing the annotations:

- A page controller class or fragment action method can only have *one* of the above annotations.
- If an request doesn't have the required privileges, an *APIAuthenticationException* will be thrown.

Once it has been determined which app is current for the request, the app's id is stored as both a request attribute and a page model attribute called "currentApp". For convenience, this can be fetched using *KenyaUiUtils.getCurrentApp(...)*.