

# Tracking last updater

With ConfiForms record you always have access to metadata fields such as

- *id* - record internal id (UUID), unique for every saved record within dataset
- *ownedBy* - the username(s) of the users who own the record (and can fully control it) - multi-value field! Multiple users can own a record!
- *ownedByName* - the full name of the user who owns the record Use *ownedBy.transform(fullName).asList*
- *createdBy* - the username of the user who has created the record (admin users can create records for other users)
- *createdByName* - the full name of the user who has created the record Use *createdBy.fullName*
- *created* - the timestamp when the record was created
- *dateCreatedFormatted* - a more readable way to see created timestamp (Uses "yyyy-MM-dd HH:mm" format, if you need "created" date in another format, use [Virtual functions](#), *created.formatDate(PATTERN)* to get it in the format you want)
- *recordId* - numeric ID of the record, *unique* within the form. If you want to reference the record always use "id" field instead



There is a similar demo on tracking last updated time together with a last updater: [Tracking user and last updated time](#)

Accessing this fields is the same as accessing the fields you define

For example, consider a simple form like this:

The screenshot shows a nested structure of ConfiForms components. The outermost container is 'ConfiForms Form (Definition) | formName = f'. Inside it is 'ConfiForms Form Registration Control'. Inside that is 'ConfiForms Form Field (Definition) | fieldName = mytextfield | f...'. Each component has a small 'CONFI' logo and a 'definition' label.

- Rendering of ConfiForms Form contents has failed: null  
com.atlassian.confluence.macro.MacroExecutionException: Rendering of ConfiForms Form contents has failed: null at com.vertuna.confluence.plugins.confiforms.ConfiFormMacro.executeToStream(ConfiFormMacro.java:145) at jdk.internal.reflect.GeneratedMethodAccessor18994.invoke(Unknown Source) at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source) at java.base/java.lang.reflect.Method.invoke(Unknown Source) at com.atlassian.confluence.macro.xhtml.XhtmlMacroManager\$ResourceAwareMacroInvocationHandler.invoke(XhtmlMacroManager.java:208) at jdk.proxy319/jdk.proxy319.\$Proxy4115.executeToStream(Unknown Source) at com.atlassian.confluence.content.render.xhtml.view.macro.ViewMacroMarshaller.executeMacro(ViewMacroMarshaller.java:235) at com.atlassian.confluence.content.render.xhtml.view.macro.ViewMacroMarshaller.marshallInternal(ViewMacroMarshaller.java:158) at com.atlassian.confluence.content.render.xhtml.view.macro.ViewMacroMarshaller.lambda\$marshal\$0(ViewMacroMarshaller.java:115) at com.atlassian.confluence.impl.content.render.xhtml.analytics.MetricsCollectingMarshaller.marshall(MetricsCollectingMarshaller.java:49) at com.atlassian.confluence.content.render.xhtml.view.macro.ViewMacroMarshaller.marshall(ViewMacroMarshaller.java:119) at com.atlassian.confluence.content.render.xhtml.view.macro.ViewMacroMarshaller.marshall(ViewMacroMarshaller.java:51) at com.atlassian.confluence.content.render.xhtml.UnmarshalMarshalFragmentTransformer.transform(UnmarshalMarshalFragmentTransformer.java:29) at

com.atlassian.confluence.content.render.xhtml.transformers.DefaultFragmentTransformer.transformFragment  
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DefaultRenderer.renderWithResult(DefaultRenderer.java:150) at com.atlassian.confluence.content.render.xhtml.DefaultRenderer.  
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49) atjdk.internal.reflect.GeneratedMethodAccessor2160.invoke(Unknown Source) at java.base/jdk.internal.reflect.  
DelegatingMethodAccessorImpl.invoke(Unknown Source) at java.base/java.lang.reflect.Method.invoke(Unknown Source) at com.  
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atjdk.proxy4/jdk.proxy4.\$Proxy397.render(Unknown Source) atjdk.internal.reflect.GeneratedMethodAccessor2160.invoke  
(Unknown Source) at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source) at java.base/java.  
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java:17) at com.vertuna.confluence.plugins.config.filter.RequestCleanupFilter.doFilter(RequestCleanupFilter.java:17) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.lambda$doFilter$0(DelegatingPluginFilter.java:57) at com.atlassian.confluence.plugins.baseurl.IncludeResourcesFilter.doFilter(IncludeResourcesFilter.java:52) at com.atlassian.core.filters.AbstractHttpFilter.doFilter(AbstractHttpFilter.java:32) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.lambda$doFilter$0(DelegatingPluginFilter.java:57) at 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(CoyoteAdapter.java:342) at org.apache.coyote.http11.Http11Processor.service(Http11Processor.java:390) at org.apache.coyote.  
AbstractProcessorLight.process(AbstractProcessorLight.java:63) at org.apache.coyote.AbstractProtocol\$ConnectionHandler.

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process(AbstractProtocol.java:928) at org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.doRun(NioEndpoint.java:1794)
at org.apache.tomcat.util.net.SocketProcessorBase.run(SocketProcessorBase.java:52) at org.apache.tomcat.util.threads.
ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1191) at org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.
run(ThreadPoolExecutor.java:659) at org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61) at
java.base/java.lang.Thread.run(Unknown Source) Caused by: java.lang.ClassCastException
```

We can build a simple CardView over it's data and to show a createdBy field in addition to defined "mytextfield"



- Rendering of ConfiForms CardView contents has failed: null

```
com.atlassian.confluence.macro.MacroExecutionException: Rendering of ConfiForms CardView contents has failed: null at com.
vertuna.confluence.plugins.confiforms.ConfiFormTableViewMacro.executeToStream(ConfiFormTableViewMacro.java:490) at jdk.
internal.reflect.GeneratedMethodAccessor18999.invoke(Unknown Source) at java.base/jdk.internal.reflect.
DelegatingMethodAccessorImpl.invoke(Unknown Source) at java.base/java.lang.reflect.Method.invoke(Unknown Source) at com.
atlassian.confluence.macro.xhtml.XhtmlMacroManager$ResourceAwareMacroInvocationHandler.invoke(XhtmlMacroManager.
java:208) at jdk.proxy319/jdk.proxy319.$Proxy4115.executeToStream(Unknown Source) at com.atlassian.confluence.content.
render.xhtml.view.macro.ViewMacroMarshaller.executeMacro(ViewMacroMarshaller.java:235) at com.atlassian.confluence.
content.render.xhtml.view.macro.ViewMacroMarshaller.marshallInternal(ViewMacroMarshaller.java:158) at com.atlassian.
confluence.content.render.xhtml.view.macro.ViewMacroMarshaller.lambda$marshal$0(ViewMacroMarshaller.java:115) at com.
atlassian.confluence.impl.content.render.xhtml.analytics.MetricsCollectingMarshaller.marshall(MetricsCollectingMarshaller.java:
49) at com.atlassian.confluence.content.render.xhtml.view.macro.ViewMacroMarshaller.marshall(ViewMacroMarshaller.java:119)
at com.atlassian.confluence.content.render.xhtml.view.macro.ViewMacroMarshaller.marshall(ViewMacroMarshaller.java:51) at
com.atlassian.confluence.content.render.xhtml.UnmarshalMarshalFragmentTransformer.transform
(UnmarshalMarshalFragmentTransformer.java:29) at com.atlassian.confluence.content.render.xhtml.transformers.
DefaultFragmentTransformer.transformFragment(DefaultFragmentTransformer.java:141) at com.atlassian.confluence.content.
render.xhtml.transformers.DefaultFragmentTransformer.transform(DefaultFragmentTransformer.java:123) at com.atlassian.
confluence.content.render.xhtml.storage.StorageXhtmlTransformer.transform(StorageXhtmlTransformer.java:41) at com.
atlassian.confluence.content.render.xhtml.TransformerChain.transform(TransformerChain.java:38) at com.atlassian.confluence.
content.render.xhtml.TransformerChain.transform(TransformerChain.java:38) at com.atlassian.confluence.content.render.xhtml.
PluggableTransformerChain.transform(PluggableTransformerChain.java:42) at com.atlassian.confluence.content.render.xhtml.
DefaultRenderer.renderWithoutMetrics(DefaultRenderer.java:189) at com.atlassian.confluence.content.render.xhtml.
DefaultRenderer.renderWithResult(DefaultRenderer.java:150) at com.atlassian.confluence.content.render.xhtml.DefaultRenderer.
render(DefaultRenderer.java:134) at com.atlassian.confluence.content.render.xhtml.DefaultRenderer.render(DefaultRenderer.
```

java:117) at com.atlassian.confluence.content.render.xhtml.DeviceTypeAwareRenderer.render(DeviceTypeAwareRenderer.java:49) at jdk.internal.reflect.GeneratedMethodAccessor2160.invoke(Unknown Source) at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source) at java.base/java.lang.reflect.Method.invoke(Unknown Source) at com.atlassian.plugin.util.ContextClassLoaderSettingInvocationHandler.invoke(ContextClassLoaderSettingInvocationHandler.java:26) at jdk.proxy4/jdk.proxy4.\$Proxy397.render(Unknown Source) at jdk.internal.reflect.GeneratedMethodAccessor2160.invoke(Unknown Source) at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source) at java.base/java.lang.reflect.Method.invoke(Unknown Source) at org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java:344) at org.eclipse.gemini.blueprint.service.importer.support.internal.aop.ServiceInvoker.doInvoke(ServiceInvoker.java:56) at org.eclipse.gemini.blueprint.service.importer.support.internal.aop.ServiceInvoker.invoke(ServiceInvoker.java:60) at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:186) at org.springframework.aop.support.DelegatingIntroductionInterceptor.doProceed(DelegatingIntroductionInterceptor.java:137) at org.springframework.aop.support.DelegatingIntroductionInterceptor.invoke(DelegatingIntroductionInterceptor.java:124) at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:186) at org.eclipse.gemini.blueprint.service.util.internal.aop.ServiceTCCLInterceptor.invokeUnprivileged(ServiceTCCLInterceptor.java:70) at org.eclipse.gemini.blueprint.service.util.internal.aop.ServiceTCCLInterceptor.invoke(ServiceTCCLInterceptor.java:53) at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:186) at org.eclipse.gemini.blueprint.service.importer.support.LocalBundleContextAdvice.invoke(LocalBundleContextAdvice.java:57) at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:186) at org.springframework.aop.support.DelegatingIntroductionInterceptor.doProceed(DelegatingIntroductionInterceptor.java:137) at org.springframework.aop.support.DelegatingIntroductionInterceptor.invoke(DelegatingIntroductionInterceptor.java:124) at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:186) at org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy.java:241) at jdk.proxy179/jdk.proxy179.\$Proxy2618.render(Unknown Source) at com.atlassian.confluence.extra.flyingpdf.html.RenderedXhtmlBuilder.renderToHtml(RenderedXhtmlBuilder.java:453) at com.atlassian.confluence.extra.flyingpdf.html.RenderedXhtmlBuilder.renderContentTreeNodes(RenderedXhtmlBuilder.java:425) at com.atlassian.confluence.extra.flyingpdf.html.RenderedXhtmlBuilder.buildHtml(RenderedXhtmlBuilder.java:120) at com.atlassian.confluence.extra.flyingpdf.html.RenderedXhtmlBuilder.buildHtml(RenderedXhtmlBuilder.java:110) at com.atlassian.confluence.extra.flyingpdf.sandbox.SandboxPdfExporterService.createDocument(SandboxPdfExporterService.java:304) at com.atlassian.confluence.extra.flyingpdf.sandbox.SandboxPdfExporterService.createPdf(SandboxPdfExporterService.java:330) at com.atlassian.confluence.extra.flyingpdf.sandbox.SandboxPdfExporterService.createPdfForPage(SandboxPdfExporterService.java:230) at com.atlassian.confluence.extra.flyingpdf.impl.DelegatingPdfExporterService.createPdfForPage(DelegatingPdfExporterService.java:54) at com.atlassian.confluence.extra.flyingpdf.impl.BigBrotherPdfExporterService.createPdfForPage(BigBrotherPdfExporterService.java:122) at com.atlassian.confluence.extra.flyingpdf.impl.ExportPageAsPdfAction.doExecute(ExportPageAsPdfAction.java:37) at com.atlassian.confluence.extra.flyingpdf.impl.PdfExportSemaphore.run(PdfExportSemaphore.java:28) at com.atlassian.confluence.extra.flyingpdf.impl.ExportPageAsPdfAction.execute(ExportPageAsPdfAction.java:30) at jdk.internal.reflect.GeneratedMethodAccessor2321.invoke(Unknown Source) at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source) at java.base/java.lang.reflect.Method.invoke(Unknown Source) at ognl.OgnlRuntime.invokeMethodInsideSandbox(OgnlRuntime.java:1245) at ognl.OgnlRuntime.invokeMethod(OgnlRuntime.java:1230) at ognl.OgnlRuntime.callAppropriateMethod(OgnlRuntime.java:1958) at ognl.ObjectMethodAccessor.callMethod(ObjectMethodAccessor.java:68) at com.opensymphony.xwork2.ognl.accessor.XWorkMethodAccessor.callMethodWithDebugInfo(XWorkMethodAccessor.java:98) at com.opensymphony.xwork2.ognl.accessor.XWorkMethodAccessor.callMethod(XWorkMethodAccessor.java:90) at com.atlassian.confluence.impl.struts.ConfluenceMethodAccessor.callMethod(ConfluenceMethodAccessor.java:20) at ognl.OgnlRuntime.callMethod(OgnlRuntime.java:2034) at ognl.ASTMethod.getValueBody(ASTMethod.java:97) at ognl.SimpleNode.evaluateGetValueBody(SimpleNode.java:212) at ognl.SimpleNode.getValue(SimpleNode.java:258) at ognl.Ognl.getValue(Ognl.java:586) at com.opensymphony.xwork2.ognl.OgnlUtil.ognlGet(OgnlUtil.java:593) at com.opensymphony.xwork2.ognl.OgnlUtil.callMethod(OgnlUtil.java:569) at com.opensymphony.xwork2.DefaultActionInvocation.invokeAction(DefaultActionInvocation.java:434) at com.opensymphony.xwork2.

DefaultActionInvocation.invokeActionOnly(DefaultActionInvocation.java:307) at com.opensymphony.xwork2.  
DefaultActionInvocation.invoke(DefaultActionInvocation.java:259) at com.atlassian.xwork.interceptors.XWorkProfilingInterceptor.  
intercept(XWorkProfilingInterceptor.java:16) at com.opensymphony.xwork2.DefaultActionInvocation.invoke  
(DefaultActionInvocation.java:256) at com.opensymphony.xwork2.interceptor.DefaultWorkflowInterceptor.doIntercept  
(DefaultWorkflowInterceptor.java:179) at com.opensymphony.xwork2.interceptor.MethodFilterInterceptor.intercept  
(MethodFilterInterceptor.java:99) at com.atlassian.confluence.core.ConfluenceWorkflowInterceptor.intercept  
(ConfluenceWorkflowInterceptor.java:25) at com.opensymphony.xwork2.DefaultActionInvocation.executeConditional  
(DefaultActionInvocation.java:299) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
253) at com.opensymphony.xwork2.validator.ValidationInterceptor.doIntercept(ValidationInterceptor.java:263) at com.  
opensymphony.xwork2.interceptor.MethodFilterInterceptor.intercept(MethodFilterInterceptor.java:99) at com.opensymphony.  
xwork2.DefaultActionInvocation.executeConditional(DefaultActionInvocation.java:299) at com.opensymphony.xwork2.  
DefaultActionInvocation.invoke(DefaultActionInvocation.java:253) at com.atlassian.confluence.security.interceptors.  
CaptchaInterceptor.intercept(CaptchaInterceptor.java:44) at com.opensymphony.xwork2.DefaultActionInvocation.invoke  
(DefaultActionInvocation.java:256) at com.atlassian.xwork.interceptors.XWorkProfilingInterceptor.intercept  
(XWorkProfilingInterceptor.java:16) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
256) at com.atlassian.xwork.interceptors.XsrfTokenInterceptor.intercept(XsrfTokenInterceptor.java:117) at com.atlassian.  
confluence.xwork.ConfluenceXsrfTokenInterceptor.intercept(ConfluenceXsrfTokenInterceptor.java:34) at com.opensymphony.  
xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.core.  
ConfluenceLicenseInterceptor.intercept(ConfluenceLicenseInterceptor.java:74) at com.opensymphony.xwork2.  
DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.xwork.HttpRequestStatsInterceptor.  
intercept(HttpRequestStatsInterceptor.java:23) at com.opensymphony.xwork2.DefaultActionInvocation.executeConditional  
(DefaultActionInvocation.java:299) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
253) at com.atlassian.confluence.validation.MessageHolderInterceptor.intercept(MessageHolderInterceptor.java:38) at com.  
opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.event.  
EventPublisherInterceptor.intercept(EventPublisherInterceptor.java:19) at com.opensymphony.xwork2.DefaultActionInvocation.  
executeConditional(DefaultActionInvocation.java:299) at com.opensymphony.xwork2.DefaultActionInvocation.invoke  
(DefaultActionInvocation.java:253) at com.atlassian.confluence.util.LoggingContextInterceptor.intercept  
(LoggingContextInterceptor.java:43) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
256) at com.atlassian.confluence.core.CancellingInterceptor.intercept(CancellingInterceptor.java:21) at com.opensymphony.  
xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.xwork.interceptors.  
RestrictHttpMethodInterceptor.intercept(RestrictHttpMethodInterceptor.java:122) at com.opensymphony.xwork2.  
DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.security.websudo.  
WebSudoInterceptor.intercept(WebSudoInterceptor.java:56) at com.opensymphony.xwork2.DefaultActionInvocation.invoke  
(DefaultActionInvocation.java:256) at com.atlassian.confluence.themes.ThemeContextInterceptor.intercept  
(ThemeContextInterceptor.java:37) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
256) at com.atlassian.confluence.security.actions.PermissionCheckInterceptor.intercept(PermissionCheckInterceptor.java:97) at  
com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.setup.  
struts.BootstrapAwareInterceptor.intercept(BootstrapAwareInterceptor.java:19) at com.opensymphony.xwork2.  
DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.opensymphony.xwork2.interceptor.PrepareInterceptor.  
doIntercept(PrepareInterceptor.java:175) at com.opensymphony.xwork2.interceptor.MethodFilterInterceptor.intercept  
(MethodFilterInterceptor.java:99) at com.opensymphony.xwork2.DefaultActionInvocation.executeConditional  
(DefaultActionInvocation.java:299) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
253) at com.atlassian.confluence.user.actions.UserAwareInterceptor.intercept(UserAwareInterceptor.java:50) at com.  
opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.pages.  
actions.CommentAwareInterceptor.intercept(CommentAwareInterceptor.java:37) at com.opensymphony.xwork2.  
DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.pages.actions.

PageAwareInterceptor.intercept(PageAwareInterceptor.java:44) at com.opensymphony.xwork2.DefaultActionInvocation.invoke  
(DefaultActionInvocation.java:256) at com.atlassian.confluence.spaces.actions.SpaceAwareInterceptor.intercept  
(SpaceAwareInterceptor.java:70) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
256) at com.atlassian.confluence.security.interceptors.ConfluenceAccessInterceptor.intercept(ConfluenceAccessInterceptor.java:  
30) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.  
xwork.FlashScopeInterceptor.intercept(FlashScopeInterceptor.java:21) at com.opensymphony.xwork2.DefaultActionInvocation.  
invoke(DefaultActionInvocation.java:256) at org.apache.struts2.interceptor.ServletConfigInterceptor.intercept  
(ServletConfigInterceptor.java:154) at com.opensymphony.xwork2.DefaultActionInvocation.executeConditional  
(DefaultActionInvocation.java:299) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
253) at com.atlassian.confluence.core.actions.LastModifiedInterceptor.intercept(LastModifiedInterceptor.java:27) at com.  
opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at com.atlassian.confluence.core.  
ConfluenceAutowireInterceptor.intercept(ConfluenceAutowireInterceptor.java:44) at com.opensymphony.xwork2.  
DefaultActionInvocation.invoke(DefaultActionInvocation.java:256) at org.apache.struts2.interceptor.parameter.  
ParametersInterceptor.doIntercept(ParametersInterceptor.java:204) at com.opensymphony.xwork2.interceptor.  
MethodFilterInterceptor.intercept(MethodFilterInterceptor.java:99) at com.opensymphony.xwork2.DefaultActionInvocation.  
executeConditional(DefaultActionInvocation.java:299) at com.opensymphony.xwork2.DefaultActionInvocation.invoke  
(DefaultActionInvocation.java:253) at com.atlassian.xwork.interceptors.TransactionallInvocation.invokeAndHandleExceptions  
(TransactionallInvocation.java:63) at com.atlassian.xwork.interceptors.TransactionallInvocation.invokeInTransaction  
(TransactionallInvocation.java:53) at com.atlassian.xwork.interceptors.XWorkTransactionInterceptor.intercept  
(XWorkTransactionInterceptor.java:50) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.  
java:256) at com.atlassian.confluence.xwork.SetupIncompleteInterceptor.intercept(SetupIncompleteInterceptor.java:60) at com.  
opensymphony.xwork2.DefaultActionInvocation.executeConditional(DefaultActionInvocation.java:299) at com.opensymphony.  
xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:253) at com.atlassian.confluence.security.interceptors.  
SecurityHeadersInterceptor.intercept(SecurityHeadersInterceptor.java:28) at com.opensymphony.xwork2.DefaultActionInvocation.  
invoke(DefaultActionInvocation.java:256) at com.atlassian.xwork.interceptors.XWorkProfilingInterceptor.intercept  
(XWorkProfilingInterceptor.java:16) at com.opensymphony.xwork2.DefaultActionInvocation.invoke(DefaultActionInvocation.java:  
256) at org.apache.struts2.factory.StrutsActionProxy.execute(StrutsActionProxy.java:48) at org.apache.struts2.dispatcher.  
Dispatcher.serviceAction(Dispatcher.java:703) at com.atlassian.confluence.impl.struts.ConfluenceStrutsDispatcher.serviceAction  
(ConfluenceStrutsDispatcher.java:58) at org.apache.struts2.dispatcher.ExecuteOperations.executeAction(ExecuteOperations.  
java:79) at org.apache.struts2.dispatcher.filter.StrutsExecuteFilter.doFilter(StrutsExecuteFilter.java:111) at org.apache.catalina.  
core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:178) at org.apache.catalina.core.ApplicationFilterChain.  
doFilter(ApplicationFilterChain.java:153) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:  
39) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.vertuna.  
confluence.filter.RequestCleanupFilter.doFilter(RequestCleanupFilter.java:24) at com.atlassian.plugin.servlet.filter.  
DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter  
(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.  
java:57) at com.vertuna.confluence.plugins.confirest.filter.RequestCleanupFilter.doFilter(RequestCleanupFilter.java:17) at com.  
atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.  
IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.  
lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.confluence.plugins.baseurl.IncludeResourcesFilter.doFilter  
(IncludeResourcesFilter.java:52) at com.atlassian.core.filters.AbstractHttpFilter.doFilter(AbstractHttpFilter.java:32) at com.  
atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.  
IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.  
lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.labs.botkiller.BotKillerFilter.doFilter(BotKillerFilter.java:36) at  
com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.  
filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.



lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.confluence.extra.jira.filters.  
SingleJiraIssuesMapThreadLocalFilter.doFilter(SingleJiraIssuesMapThreadLocalFilter.java:42) at com.atlassian.plugin.servlet.  
filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.  
doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.lambda\$doFilter\$0  
(DelegatingPluginFilter.java:57) at com.atlassian.applinks.core.rest.context.ContextFilter.doFilter(ContextFilter.java:24) at com.  
atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.  
IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.  
lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.applinks.core.rest.context.ContextFilter.doFilter(ContextFilter.  
java:24) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.  
plugin.servlet.filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.filter.  
DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.applinks.core.rest.context.  
ContextFilter.doFilter(ContextFilter.java:24) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter  
(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at  
com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.  
applinks.core.rest.context.ContextFilter.doFilter(ContextFilter.java:24) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.  
doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:  
37) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.  
atlassian.applinks.core.rest.context.ContextFilter.doFilter(ContextFilter.java:24) at com.atlassian.plugin.servlet.filter.  
DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter  
(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.  
java:57) at com.atlassian.confluence.plugins.pulp.PulpFilter.doFilter(PulpFilter.java:75) at com.atlassian.core.filters.  
AbstractHttpFilter.doFilter(AbstractHttpFilter.java:32) at com.atlassian.plugin.servlet.filter.DelegatingPluginFilter.doFilter  
(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at  
com.atlassian.plugin.servlet filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.  
analytics.client.filter.UniversalAnalyticsFilter.doFilter(UniversalAnalyticsFilter.java:75) at com.atlassian.analytics.client.filter.  
AbstractHttpFilter.doFilter(AbstractHttpFilter.java:33) at com.atlassian.plugin.servlet filter.DelegatingPluginFilter.doFilter  
(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at  
com.atlassian.plugin.servlet filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.  
mywork.client.filter.ServingRequestsFilter.doFilter(ServingRequestsFilter.java:32) at com.atlassian.plugin.servlet filter.  
DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet filter.IteratingFilterChain.doFilter  
(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.  
java:57) at com.atlassian.confluence.efi.OnboardingFilter.doFilter(OnboardingFilter.java:77) at com.atlassian.core.filters.  
AbstractHttpFilter.doFilter(AbstractHttpFilter.java:32) at com.atlassian.plugin.servlet filter.DelegatingPluginFilter.doFilter  
(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at  
com.atlassian.plugin.servlet filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.  
plugins.authentication.impl.web.filter.authentication.ConfluenceAuthenticationFilter.doFilterInternal  
(ConfluenceAuthenticationFilter.java:101) at com.atlassian.plugins.authentication.impl.web.filter.AbstractJohnsonAwareFilter.  
doFilter(AbstractJohnsonAwareFilter.java:29) at com.atlassian.plugin.servlet filter.DelegatingPluginFilter.doFilter  
(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at  
com.atlassian.plugin.servlet filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.java:57) at com.atlassian.  
prettyurls.filter.PrettyUrlsSiteMeshFixupFilter.doFilter(PrettyUrlsSiteMeshFixupFilter.java:32) at com.atlassian.plugin.servlet filter.  
DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet filter.IteratingFilterChain.doFilter  
(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet filter.DelegatingPluginFilter.lambda\$doFilter\$0(DelegatingPluginFilter.  
java:57) at com.atlassian.prettyurls.filter.PrettyUrlsDispatcherFilter.doFilter(PrettyUrlsDispatcherFilter.java:55) at com.atlassian.  
plugin.servlet filter.DelegatingPluginFilter.doFilter(DelegatingPluginFilter.java:62) at com.atlassian.plugin.servlet filter.  
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62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.  
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37) at com.atlassian.plugin.servlet.filter.ServletFilterModuleContainerFilter.doFilter(ServletFilterModuleContainerFilter.java:56) at  
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(ApplicationFilterChain.java:178) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:153) at  
com.atlassian.confluence.util.message.MessagesDecoratorFilter.doFilter(MessagesDecoratorFilter.java:64) at com.atlassian.core.  
filters.AbstractHttpFilter.doFilter(AbstractHttpFilter.java:32) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter  
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com.opensymphony.sitemesh.webapp.SiteMeshFilter.obtainContent(SiteMeshFilter.java:181) at com.opensymphony.sitemesh.  
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62) at com.atlassian.plugin.servlet.filter.IteratingFilterChain.doFilter(IteratingFilterChain.java:37) at com.atlassian.plugin.servlet.  
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com.atlassian.confluence.impl.webapp.security.NeoSecurityFilter.doFilter(NeoSecurityFilter.java:78) at javax.servlet.http.  
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java:153) at com.atlassian.confluence.cache.TransactionaCacheFactoryCleanupFilter.doFilter


(TransactionalCacheFactoryCleanupFilter.java:22) at com.atlassian.core.filters.AbstractHttpFilter.doFilter(AbstractHttpFilter.java:32) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:178) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:153) at com.atlassian.core.filters.ServletContextThreadLocalFilter.doFilter(ServletContextThreadLocalFilter.java:17) at com.atlassian.core.filters.AbstractHttpFilter.doFilter(AbstractHttpFilter.java:32) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:178) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:153) at com.atlassian.confluence.util.UserLoggingContextFilter.doFilter(UserLoggingContextFilter.java:31) at com.atlassian.core.filters.AbstractHttpFilter.doFilter(AbstractHttpFilter.java:32) at 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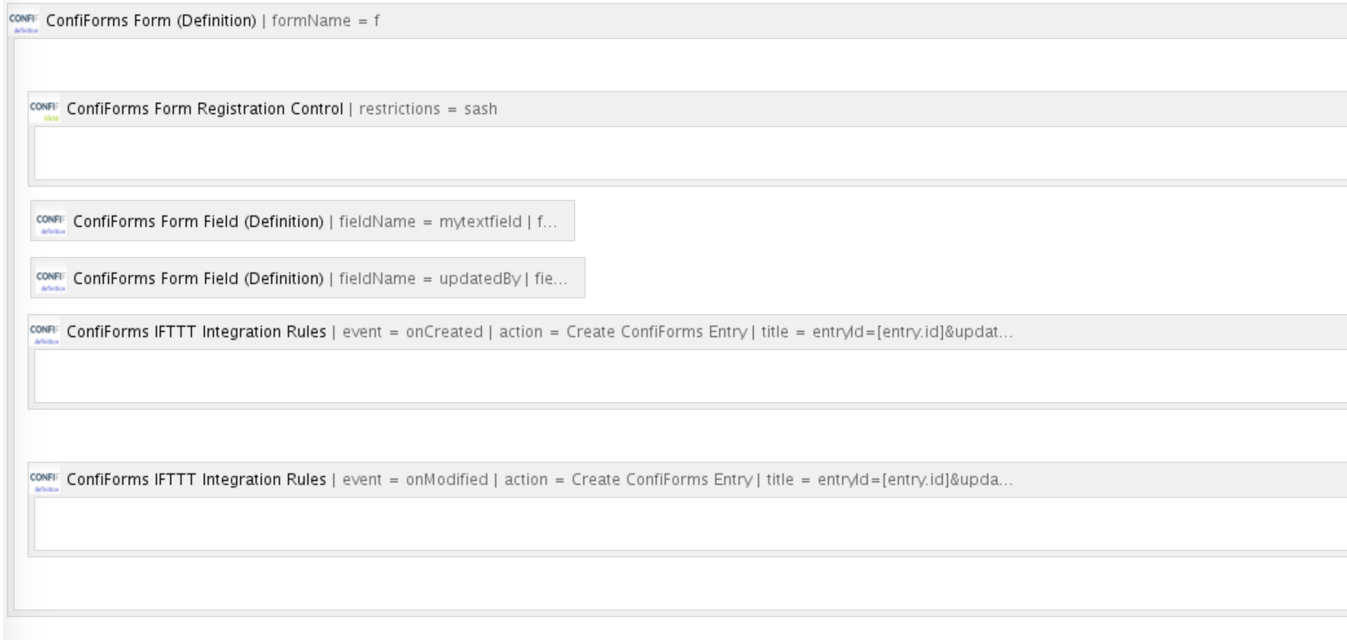
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(StandardContextValve.java:90) at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:481) at  
org.apache.catalina.valves.RemoteIpValve.invoke(RemoteIpValve.java:765) at org.apache.catalina.valves.  
AbstractAccessLogValve.invoke(AbstractAccessLogValve.java:670) at org.apache.catalina.valves.StuckThreadDetectionValve.  
invoke(StuckThreadDetectionValve.java:185) at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:  
130) at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:93) at org.apache.catalina.core.  
StandardEngineValve.invoke(StandardEngineValve.java:74) at org.apache.catalina.connector.CoyoteAdapter.service  
(CoyoteAdapter.java:342) at org.apache.coyote.http11.Http11Processor.service(Http11Processor.java:390) at org.apache.coyote.  
AbstractProcessorLight.process(AbstractProcessorLight.java:63) at org.apache.coyote.AbstractProtocol\$ConnectionHandler.  
process(AbstractProtocol.java:928) at org.apache.tomcat.util.net.NioEndpoint\$SocketProcessor.doRun(NioEndpoint.java:1794)  
at org.apache.tomcat.util.net.SocketProcessorBase.run(SocketProcessorBase.java:52) at org.apache.tomcat.util.threads.  
ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1191) at org.apache.tomcat.util.threads.ThreadPoolExecutor\$Worker.  
run(ThreadPoolExecutor.java:659) at org.apache.tomcat.util.threads.TaskThread\$WrappingRunnable.run(TaskThread.java:61) at  
java.base/java.lang.Thread.run(Unknown Source) Caused by: java.lang.ClassCastException



 However, ConfiForms does **NOT** track the last updater by default, but it can be easily added

We will use the same form, add a hidden field to store the last updater and update this field with IFTTT on record create and record update



CONFIF: ConfiForms Form (Definition) | formName = f

CONFIF: ConfiForms Form Registration Control | restrictions = sash

CONFIF: ConfiForms Form Field (Definition) | fieldName = mytextfield | f...

CONFIF: ConfiForms Form Field (Definition) | fieldName = updatedBy | fie...

CONFIF: ConfiForms IFTTT Integration Rules | event = onCreate | action = Create ConfiForms Entry | title = entryId=[entry.id]&updat...

CONFIF: ConfiForms IFTTT Integration Rules | event = onModified | action = Create ConfiForms Entry | title = entryId=[entry.id]&upda...

Modifying the CardView like this:



CONFIF: ConfiForms CardView | formName = f

CONFIF: ConfiForms Form Field | fieldName = mytextfield

CONFIF: ConfiForms Form Field | fieldName = createdBy

CONFIF: ConfiForms Form Field | fieldName = updatedBy

Complete storage format for the solution

```
<ac:structured-macro ac:macro-id="ea4ce2ca-5009-4af2-a354-c5126a50fcef" ac:name="conform" ac:schema-version="1">
  <ac:parameter ac:name="formName">f1</ac:parameter>
  <ac:rich-text-body>
    <ac:structured-macro ac:macro-id="37fd2753-23c4-436c-bb5e-d9ffce5a3f2f" ac:name="conform-entry-register" ac:schema-version="1">
      <ac:parameter ac:name="restrictions">sash</ac:parameter>
      <ac:rich-text-body>
```

```
<p> </p>
</ac:rich-text-body>
</ac:structured-macro>
<p>
  <ac:structured-macro ac:macro-id="ed12368a-7dcf-4d19-9f2b-563feaf83ff6" ac:name="confiform-field-
definition" ac:schema-version="1">
    <ac:parameter ac:name="fieldName">mytextfield</ac:parameter>
    <ac:parameter ac:name="fieldLabel">My text field</ac:parameter>
    <ac:parameter ac:name="type">text</ac:parameter>
  </ac:structured-macro>
</p>
<p>
  <ac:structured-macro ac:macro-id="b87d1150-2428-4a77-a0b5-7b0710e79759" ac:name="confiform-field-
definition" ac:schema-version="1">
    <ac:parameter ac:name="fieldName">updatedBy</ac:parameter>
    <ac:parameter ac:name="fieldLabel">Updated by:</ac:parameter>
    <ac:parameter ac:name="type">hidden</ac:parameter>
  </ac:structured-macro>
</p>
<ac:structured-macro ac:macro-id="e76faef8-953b-4a36-8e7b-ce5ec85c0edb" ac:name="confiform-ifttt" ac:schema-
version="1">
  <ac:parameter ac:name="action">Create ConfiForms Entry</ac:parameter>
  <ac:parameter ac:name="event">onCreated</ac:parameter>
  <ac:parameter ac:name="title">entryId=[entry.id]&amp;updatedBy=[entry._user]</ac:parameter>
  <ac:rich-text-body>
    <p> </p>
  </ac:rich-text-body>
</ac:structured-macro>
<ac:structured-macro ac:macro-id="207991aa-4e6c-4194-8310-bb48ad407b7b" ac:name="confiform-ifttt" ac:schema-
version="1">
  <ac:parameter ac:name="action">Create ConfiForms Entry</ac:parameter>
  <ac:parameter ac:name="event">onModified</ac:parameter>
  <ac:parameter ac:name="title">entryId=[entry.id]&amp;updatedBy=[entry._user]</ac:parameter>
  <ac:rich-text-body>
    <p> </p>
  </ac:rich-text-body>
</ac:structured-macro>
</ac:rich-text-body>
</ac:structured-macro>
<ac:structured-macro ac:macro-id="691c19c2-afa5-4847-8442-6e59f08e4178" ac:name="confiform-card" ac:schema-
version="1">
  <ac:parameter ac:name="formName">f1</ac:parameter>
  <ac:rich-text-body>
    <p>
      <ac:structured-macro ac:macro-id="clf02f2f-6a83-4151-9b68-b36fb6772717" ac:name="confiform-field" ac:
schema-version="1">
        <ac:parameter ac:name="fieldName">mytextfield</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="d9a2031a-caeb-48e9-88d6-5829ab13dc7a" ac:name="confiform-field" ac:
schema-version="1">
        <ac:parameter ac:name="fieldName">createdBy</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="c90c2b7d-dcd6-4d13-939e-80d103d16c04" ac:name="confiform-field" ac:
schema-version="1">
        <ac:parameter ac:name="fieldName">updatedBy</ac:parameter>
      </ac:structured-macro>
    </p>
  </ac:rich-text-body>
</ac:structured-macro>
```

