



제 32회 Open Technet

올챙이로 살펴보는 ECLIPSE개발

조현종 (Vo.1, 12/09/06)

<http://goo.gl/Q6Vax>

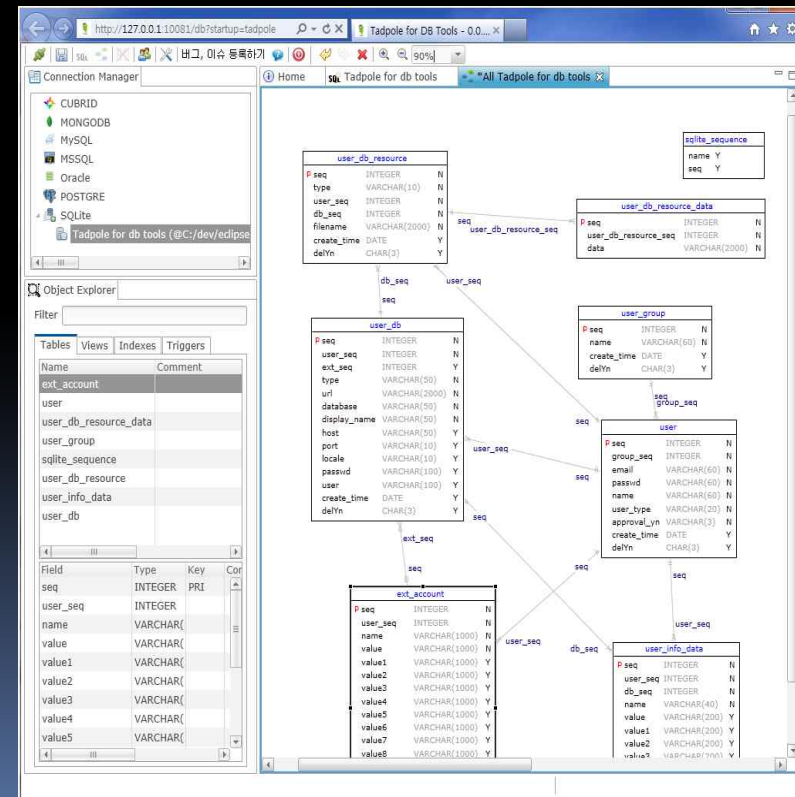
<http://hangumkj.blogspot.com/>

hangum@gmail.com



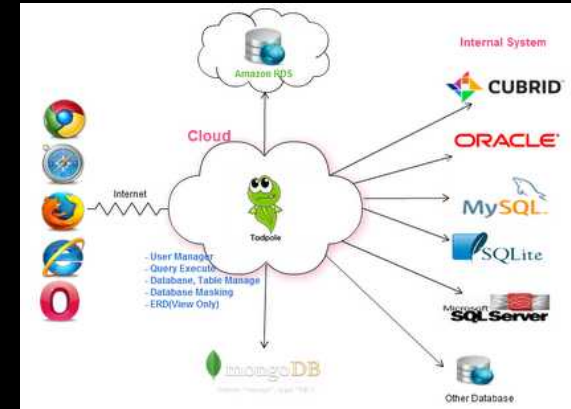
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- 올챙이는?
- Eclipse Overview
- Eclipse Infrastructure
- Plug-in Structure
- Tadpole 개발

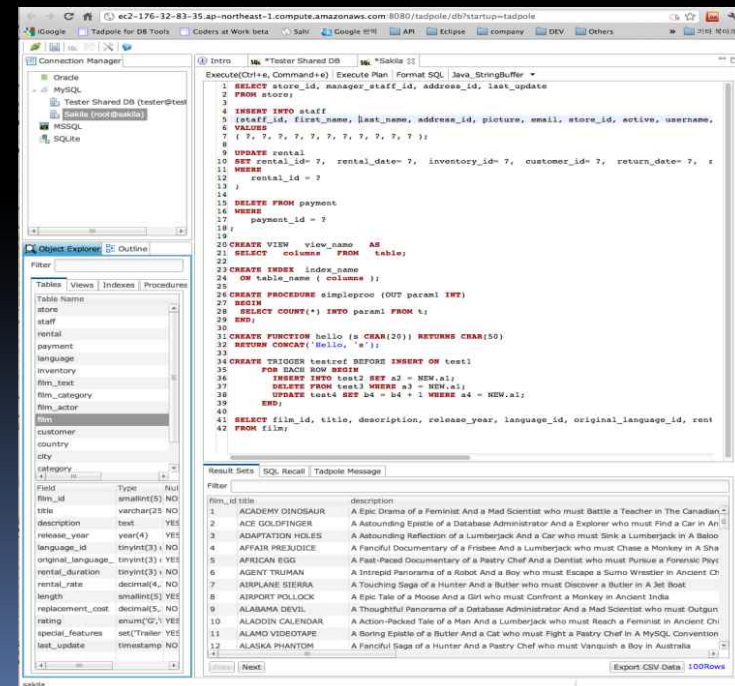


올챙이는?

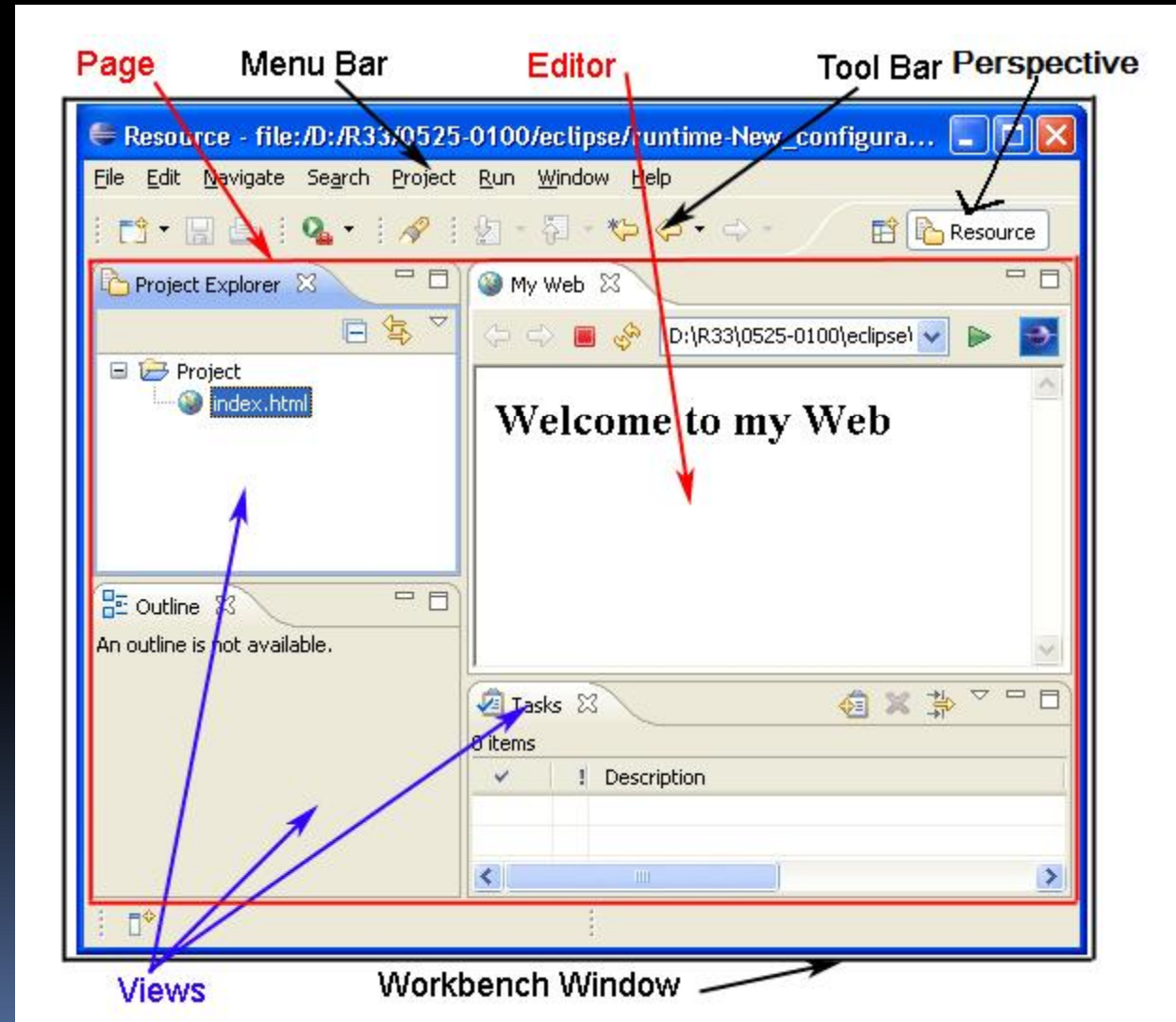
- 배경
- 웹 브라우저에서 DB 개발 및 관리 솔루션
- RDB : CUBRID, MySQL, MSSQL, Oracle, SQLite, Postgre
- NoSQL : MongoDB



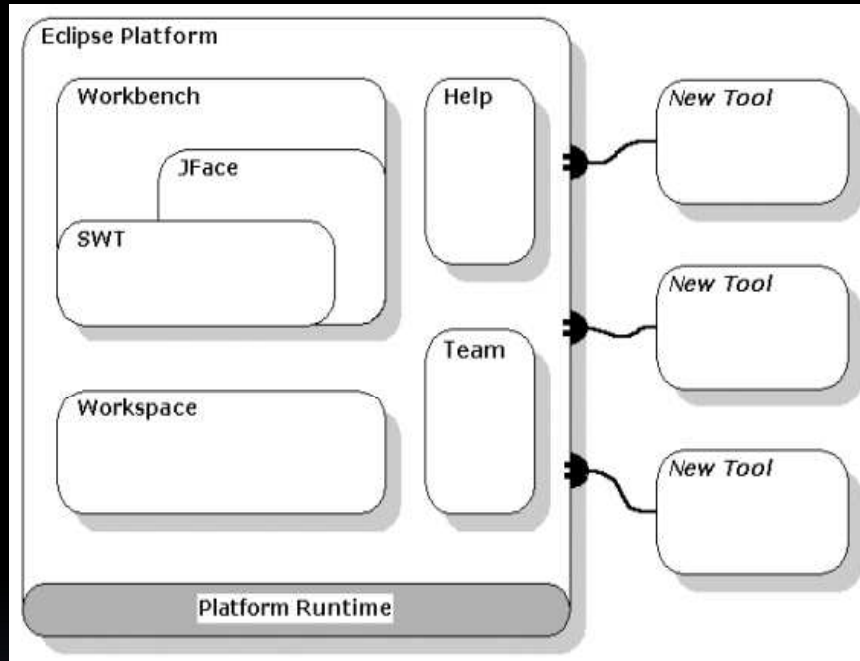
- Main page
 - <http://goo.gl/eu7PQ>
- 데모 사이트
 - <http://goo.gl/p3DMA>
- 현재
 - 0.0.8 SR3 배포 중



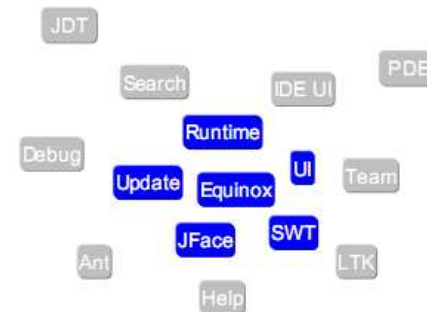
Eclipse Overview



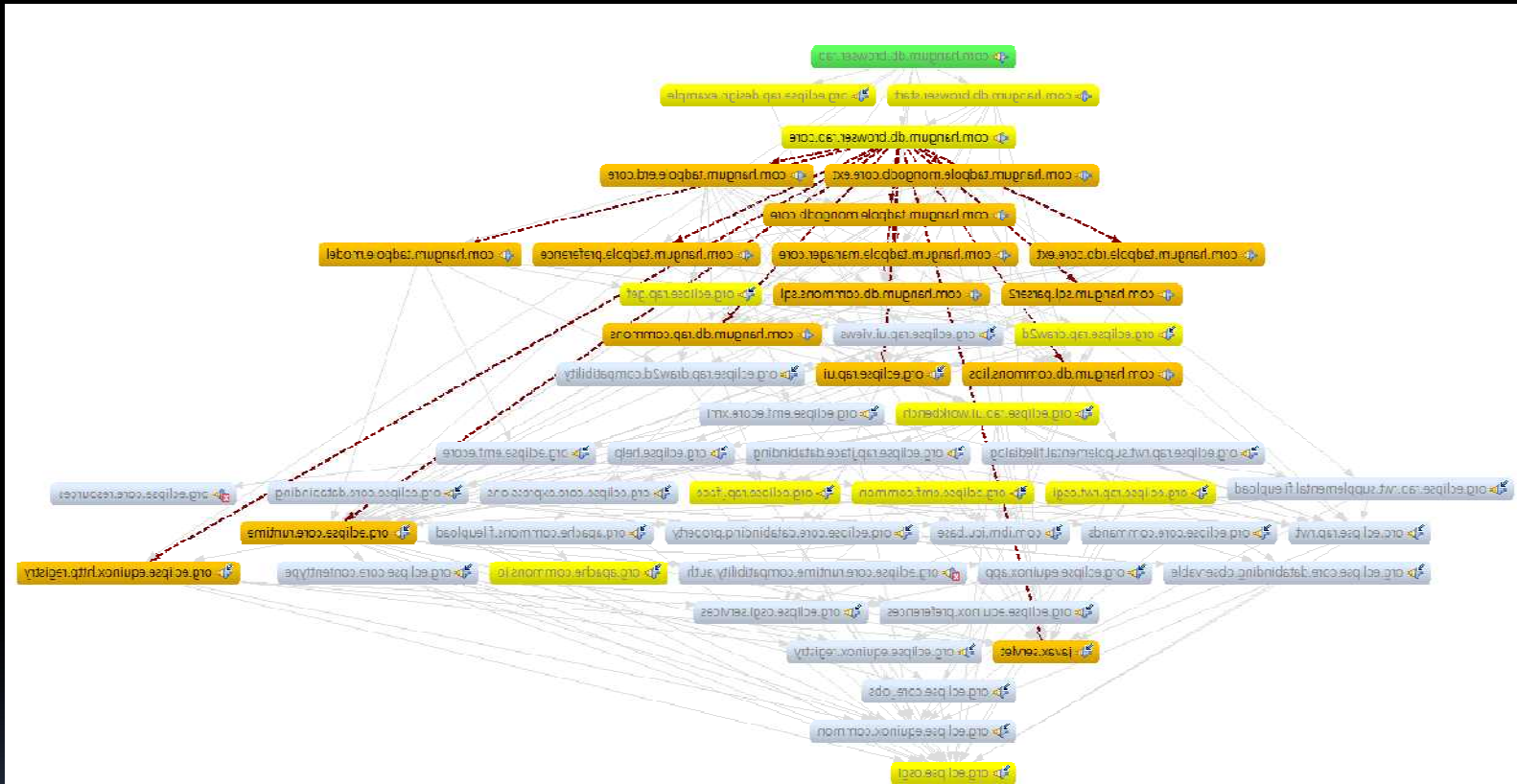
Eclipse Overview



Eclipse Rich Client Platform



Eclipse Infrastructure



Plug-in Loader

Java Class Library

JVM(Java Virtual Machine)

OS

Plug-in structure

com.hangum.db.browser.rap.core

META-INF

```
Require-Bundle: org.eclipse.rap.ui;bundle-version="1.3.2",  
org.eclipse.core.runtime,  
com.hangum.db.commons.libs;bundle-version="1.0.0",  
com.hangum.db.commons.sql;bundle-version="1.0.0",  
com.hangum.db.rap.commons;bundle-version="1.0.0",  
com.hangum.tadpole.erd.core;bundle-version="1.0.0",
```

Bundle-RequiredExecutionEnvironment: JavaSE-1.6

Bundle-ActivationPolicy: lazy

```
Export-Package: com.hangum.db.browser.rap.core,  
com.hangum.db.browser.rap.core.actions.global,  
com.hangum.db.browser.rap.core.dialog.dbconnect,  
com.hangum.db.browser.rap.core.editors.intro,
```

org.eclipse.rap.ui (1.5.0.20120612-1458)

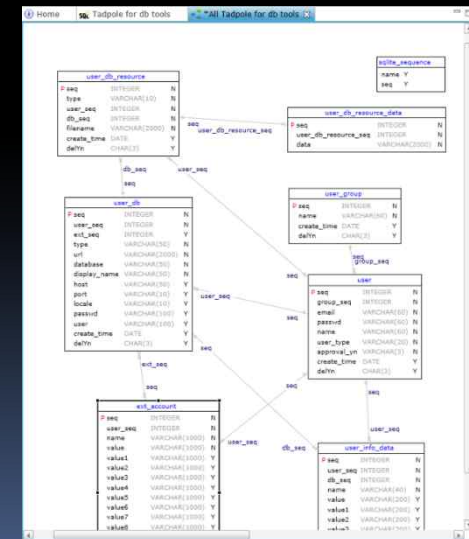
com.hangum.tadpole.manager.core (1.0.0.qualifier)

plugin.xml

```
<plugin>  
  <extension  
    point="org.eclipse.ui.views">  
    <category  
      id="com.hangum.db.browser.rap.core.category.info"  
      name="%category.name">  
    </category>  
    <view  
      category="com.hangum.db.browser.rap.core.category.info"  
      class="com.hangum.db.browser.rap.core.viewers.connections.ManagerViewer"  
      icon="resources/icons/database_table.png"  
      id="com.hangum.db.browser.rap.core.view.connection.manager"  
      name="%view.name"  
      restorable="true">  
    </view>  
  </extension>  
</plugin>
```

src

resources



SWT/JFace

Spinner
[javadoc - snippets](#)

StyledText
[javadoc - snippets](#)

TabFolder
[javadoc - snippets](#)

Name	Type	Size
Index:0	classes	0
Index:1	databases	2556
Index:2	images	9157
Index:3	classes	0
Index:4	databases	2556

Table
[javadoc - snippets](#)

Text (SWT_SINGLE)
[javadoc - snippets](#)

Text (SWT_MULTI)
[javadoc - snippets](#)

ToolBar
[javadoc - snippets](#)

Tray
[javadoc - snippets](#)

Name	Type
Node 1	classes
Node 2	databa
Node 2.1	databa
Node 2.2	databa

Tree
[javadoc - snippets](#)

Link
[javadoc - snippets](#)

List
[javadoc - snippets](#)

Menu
[javadoc - snippets](#)

ProgressBar
[javadoc - snippets](#)

Sash
[javadoc - snippets](#)

ScrolledComposite
[javadoc - snippets](#)

Shell
[javadoc - snippets](#)

Slider
[javadoc - snippets](#)

Scale
[javadoc - snippets](#)

CoolBar
[javadoc - snippets](#)

CTabFolder
[javadoc - snippets](#)

DateTime
[javadoc - snippets](#)

ExpandBar
[javadoc - snippets](#)

Group
[javadoc](#)

Label
[javadoc - snippets](#)

Browser
[javadoc - snippets](#)

Button (SWT_ARROW)
[javadoc - snippets](#)

Button (SWT_CHECK)
[javadoc - snippets](#)

Button (SWT_PUSH)
[javadoc - snippets](#)

Button (SWT_RADIO)
[javadoc - snippets](#)

Button (SWT_TOGGLE)
[javadoc - snippets](#)

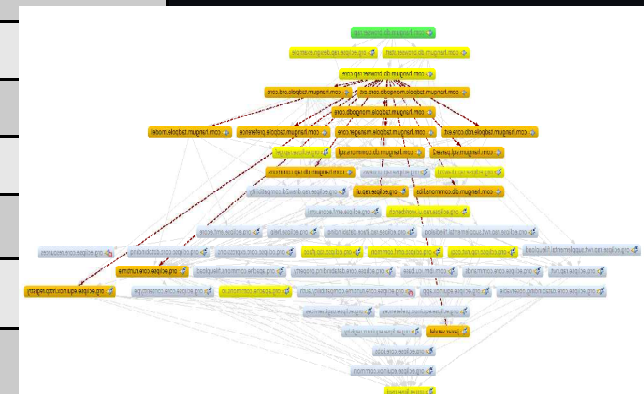
Canvas
[javadoc - snippets](#)

Combo
[javadoc - snippets](#)

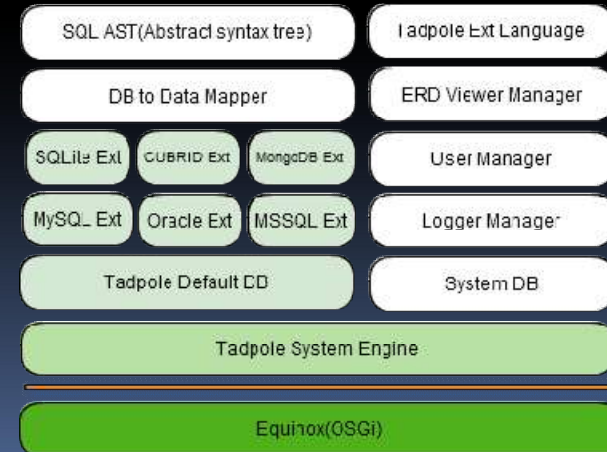
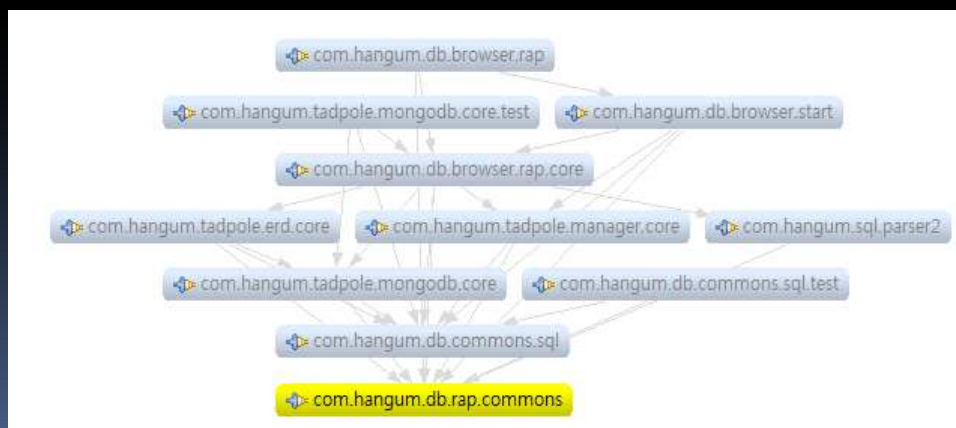
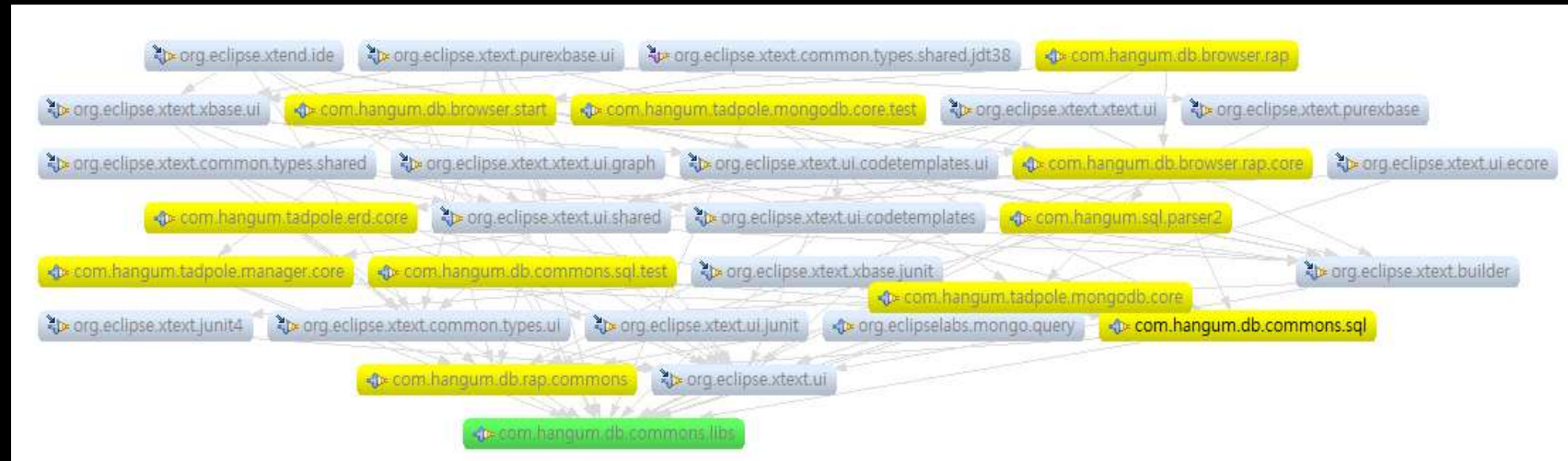
Composite
[javadoc - snippets](#)

Tadpole Plug-in list

Plug-in	Description
com.hangum.db.browser.rap	•프로젝트 시작 •Standalone 배포
com.hangum.db.browser.rap.core	•Project explorer •Object explorer •RDB 에디터
com.hangum.db.browser.start	프로젝트 워크 벤치
com.hangum.db.commons.libs	공통 라이브러리 관리(JAR 파일관리)
com.hangum.db.commons.sql	SQL 관리 및 올챙이 내부 시스템 디비
com.hangum.db.rap.commons	공통 코드
com.hangum.sql.parser2	SQL Parser(Formatting)
com.hangum.tadpole.build.war	WAR 파일 배포
com.hangum.tadpole.erd.core	ERD
com.hangum.tadpole.manager.core	메니저
com.hangum.tadpole.model	DTO 모델 정의(ERD의존적)
com.hangum.tadpole.mongodb.core	몽고디비
org.eclipselabs.mongo.query	몽고디비 쿼리 생성
targetProject	Target platform
com.hangum.tadpole.feature com.hangum.tadpole.feature.site	프로젝트 관리 및 buckminster 배포



Tadpole plug-in dependencies



Eclipse Plug-in 개발환경

- PDE(Plug-in Development Environment)



Eclipse for RCP and RAP Developers, 227 MB

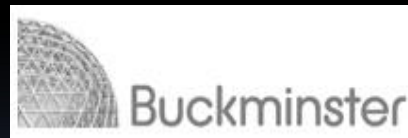
Downloaded 46,838 Times

[Details](#)



Windows 32 Bit

Windows 64 Bit



[WindowBuilder Pro](#)

WindowBuilder Pro is a WYSIWYG, drag-and-drop interface that lets developers create Java GUIs in minutes, creating clean Java code, with the visual design and source always in sync.



Google CodePro AnalytiX™



Log4E

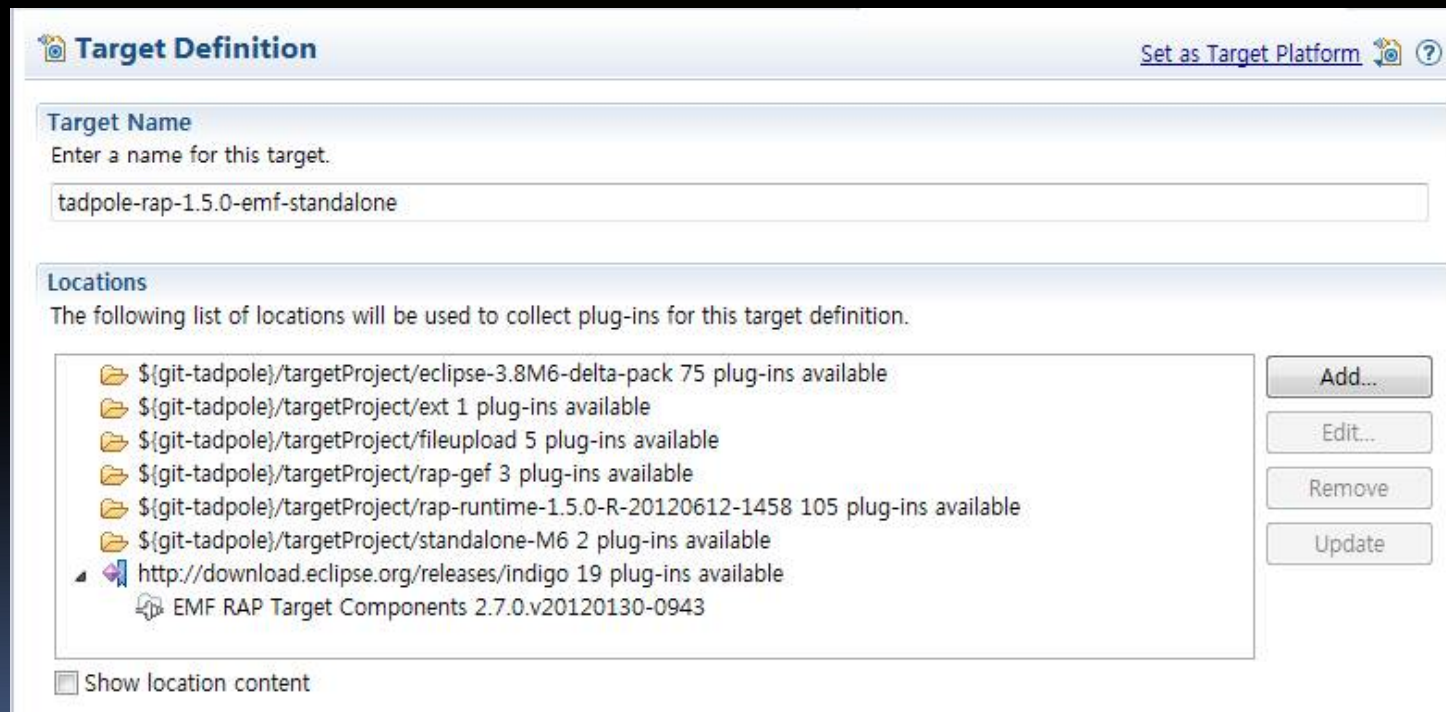


Xtext

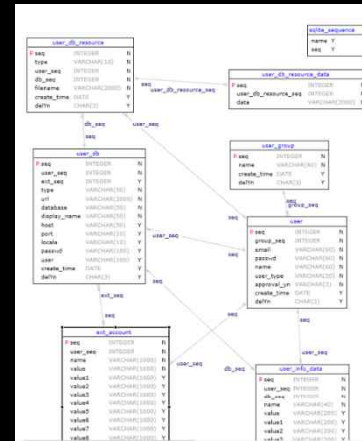
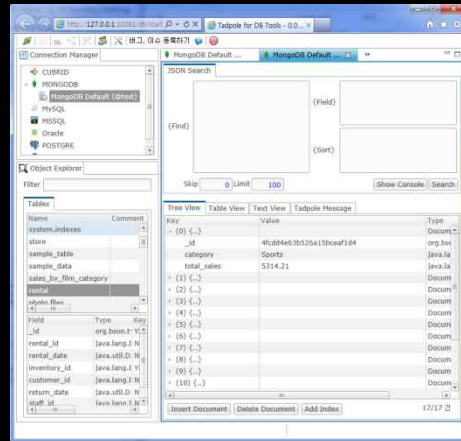
Eclipse ResourceBundle Editor

Target Platform

- 개발하기 전에 제일 먼저 해야 할 일
- 공통 라이브러리 정의



Tadpole Overview

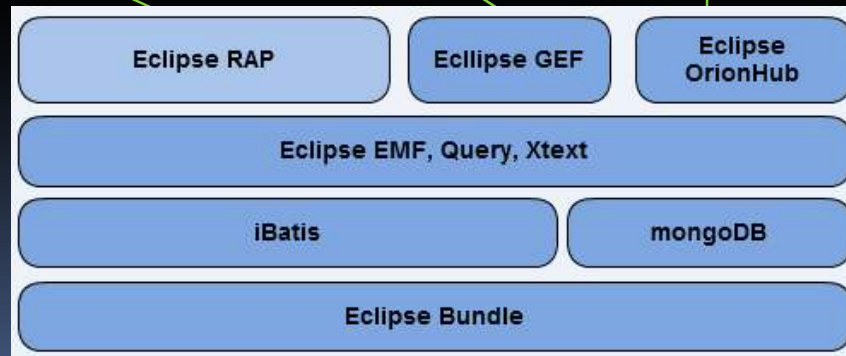


```

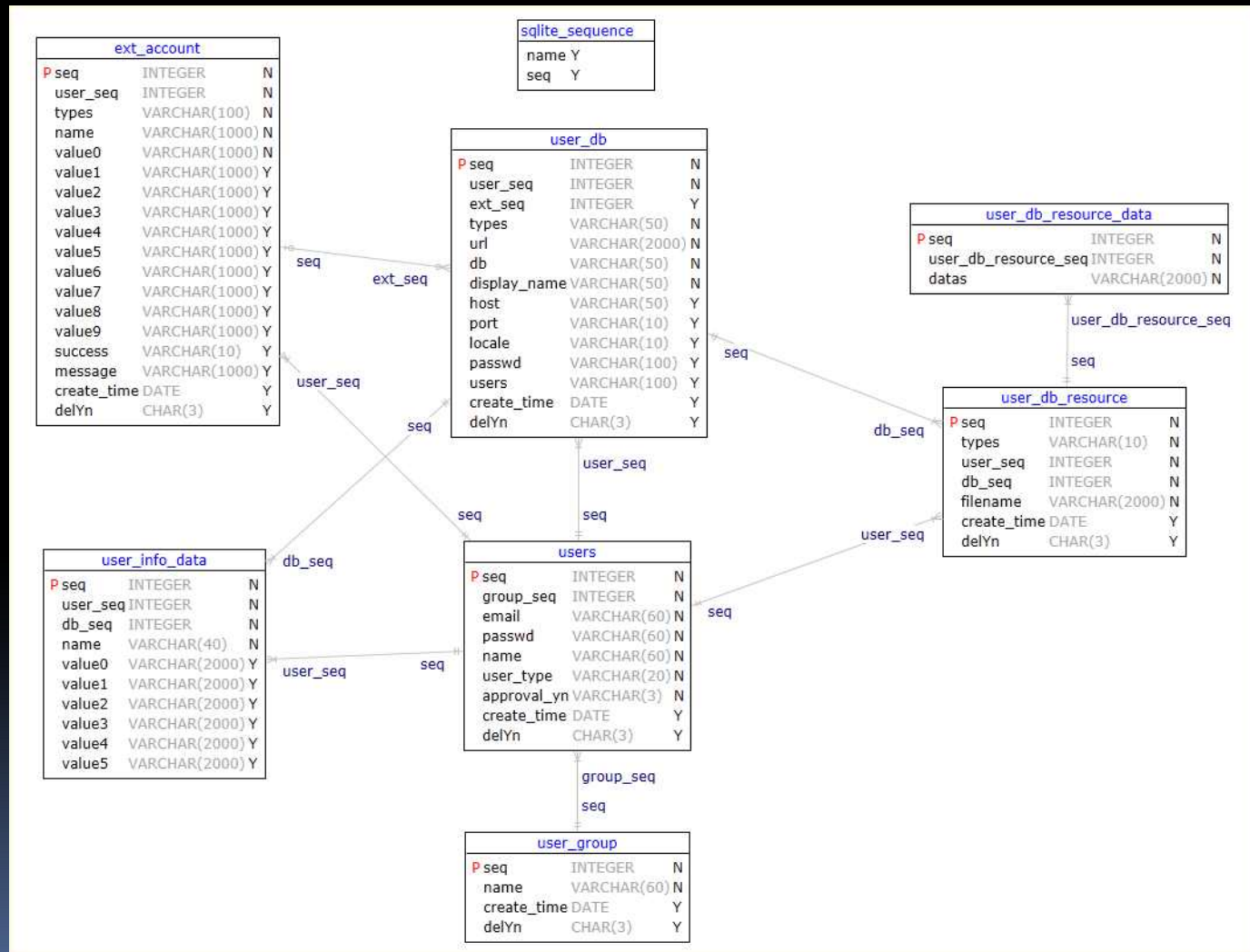
Execute(Orion, Command-e) Execute Man | Format SQL | Java_StringBuffer
1 SELECT store_id, manager_staff_id, address_id, last_update
2 FROM store;
3
4 INSERT INTO staff
5 (staff_id, first_name, last_name, address_id, picture, email, store_id, active, username,
6 password)
7 VALUES
8 (7, 7, 7, 7, 7, 7, 7, 7, 7, 7);
9
10 UPDATE rental
11 SET rental_id = 7, rental_date = 7, inventory_id = 7, customer_id = 7, return_date = 7,
12 rental_id = 7
13 ;
14
15 DELETE FROM payment;
16 WHERE
17 payment_id = 7;
18 ;
19
20 CREATE VIEW view_name AS
21 SELECT column FROM table;
22
23 CREATE INDEX index_name
24 ON table_name ( column );
25
26 CREATE PROCEDURE simpleproc (OUT param INT)
27 BEGIN
28 SELECT COUNT(*) INTO param FROM t;
29 END;
30
31 CREATE FUNCTION hello (a CHAR(20)) RETURNS CHAR(50)
32 RETURN CONCAT('hello, ', a);
33
34 CREATE TRIGGER testref BEFORE INSERT ON test1
35 FOR EACH ROW BEGIN
36 INSERT INTO test2 SET a2 = NEW.a1;
37 DELETE FROM test2 WHERE a2 = NEW.a1;
38 UPDATE test4 SET b1 = b1 + 1 WHERE a4 = NEW.a1;
39 END;
40
41 SELECT film_id, title, description, release_year, language_id, original_language_id, rent
42 FROM film;
    
```

Node	Content
xml	version="1.0" encoding="UTF-8"
DOCTYPE	sqlMap PUBLIC "-//ibatis.apache.org/DTD SQL Map 2.0//EN
sqlMap	(typeAlias* cacheModel* resultMap* parameterMap* sql
namespace	MySQL_query
	table 이름
select	(include dynamic table, view의 컬럼
select	(include dynamic 테이블간의 관계
select	(include dynamic 모든 관계 테이블
select	(include dynamic view 정보
select	(include dynamic index 정보, SHOW
select	(include dynamic procedure list
select	(include dynamic function list
select	(include dynamic show triggers
select	(include dynamic

- Postgre.xml
- MSSQL.xml
- SQLite.xml
- Oracle.xml
- MySQL.xml
- Cubrid.xml



Tadpole Engine DB



Preference

Preferences

type filter text

General
MongoDB
RDB
User

User

Group Name: tadpole-manager

email: manager.tadpole@gmail.com

password:

re password:

Name: tadpole-manager

Restore Defaults Apply

OK Cancel

com.hangum.tadpole.preference

Extensions

Define extensions for this plug-in in the following section.

type filter text

org.eclipse.ui.preferencePages

- General (page)
- User (page)**
- RDB (page)
- MongoDB (page)

Add... Remove

Extension Element Details

Set the properties of "page". Required fields are denoted by "*".

id*: com.hangum.db.browser.rap.core.page.userInfo

name*: User

class*: com.hangum.tadpole.preference.ui.UserInfoPerfer Browse...

category: Browse...

```
96     return container;
97 }
98
99 @Override
100 public boolean performOk() {
101     String pass = textPassword.getText().trim();
102     String rePass = textRePassword.getText().trim();
103
104     if(!pass.equals(rePass)) {
105         MessageDialog.openError(getShell(), Messages.UserInfoPreference_0, Messages.UserInfoPreference_6);
106         return false;
107     }
108
109     UserDao user = new UserDao();
110     user.setSeq(SessionManager.getSeq());
111     user.setPasswd(pass);
112     try {
113         TadpoleSystem_UserQuery.updateUserPassword(user);
114
115         MessageDialog.openConfirm(getShell(), Messages.UserInfoPreference_0, Messages.UserInfoPreference_8)
116     } catch (Exception e) {
117         // logger.error("password change", e); //$NON-NLS-1$
118         MessageDialog.openError(getShell(), "Confirm", e.getMessage()); //NON-NLS-1$
119
120         return false;
121     }
122
123     return super.performOk();
124 }
```

Command and Action

The screenshot displays the Eclipse IDE interface with several key components:

- Object Explorer:** Shows a project named 'SQLite' with a context menu open. The menu items include 'Edit SQL', 'Disconnect Database', 'ERD', and 'Create DML'. The 'Create DML' item is selected, and a sub-menu is visible with options: 'Create Table', 'Create View', 'Creat Index', 'Creat Procedure', 'Creat Functionion', and 'Creat Trigger'. The 'Create Table' option is highlighted.
- Extensions View:** Titled 'com.hangum.db.browser.rap.core', it shows a tree of extensions. The 'Create Table (action)' extension is selected and highlighted in blue.
- Extension Element Details:** A configuration panel for the selected extension. It contains the following fields:
 - id*:** com.hangum.db.browser.rap.core.action.createTable
 - label:** %action.label.0
 - class*:** com.hangum.db.browser.rap.core.actions. (with a 'Browse...' button)
 - definitionId:** (with a 'Browse...' button)
 - menubarPath:** menu.create/dml
 - icon:** (with a 'Browse...' button)
 - helpContextId:** (empty)
 - style:** (dropdown menu)
 - state:** (dropdown menu)
 - enablesFor:** 1
 - overrideActionId:** (empty)
 - tooltip:** (empty)
- Code Editor:** Shows the source code for 'ObjectCreatAction.java'. The code defines a class that extends 'AbstractObjectAction' and implements the 'run' method. Key lines include:

```
1 package com.hangum.db.browser.rap.core.actions.object;
2
3 import org.apache.log4j.Logger;
4
5 /**
6  * Object Explorer에서 사용하는 공통 action
7  * @author hangumNote
8  */
9
10 public class ObjectCreatAction extends AbstractObjectAction {
11     /**
12      * Logger for this class
13      */
14     private static final Logger logger = Logger.getLogger(ObjectCreatAction.class);
15
16     public final static String ID = "com.hangum.db.browser.rap.core.actions.object.create";
17
18     public ObjectCreatAction(IWorkbenchWindow window, Define.DB_ACTION actionType, String title) {
19         super(window, actionType);
20         setId(ID + actionType.toString());
21         setText("Create " + title);
22
23         window.getSelectionService().addSelectionListener(this);
24     }
25 }
```

Viewer(Object Explorer)

The screenshot shows the 'Extensions' dialog for the 'Object Explorer' view. The 'All Extensions' list on the left includes 'Object Explorer (view)'. The 'Extension Element Details' section on the right shows the following configuration:

- id*: com.hangum.db.browser.rap.core.view.object.expl
- name*: %view.name.0
- class*: com.hangum.db.browser.rap.core.view. [Browse...]
- category: com.hangum.db.browser.rap.core.categ [Browse...]
- icon: resources/icons/object-explorer.png [Browse...]
- fastViewWidthRatio: []
- allowMultiple: []
- restorable: true

```
1 package com.hangum.db.browser.rap.core.viewers.object;
2
3 import java.util.ArrayList;
4
5 /**
6  * 선택된 db의 object를
7  * @author hangumNote
8  */
9 public class ExplorerViewer extends AbstractExplorerViewer {
10
11     public static String ID = "com.hangum.db.browser.rap.core.view.object.explorer"; //$NON-NLS-1$
12     static Logger logger = Logger.getLogger(ExplorerViewer.class);
13 }
```

The screenshot shows the 'Object Explorer' view with a filter and a list of tables. The 'Tables' tab is active, showing a list of tables with their names and comments. Below the table list, there is a table showing the fields and types for the selected table.

Name	Comment
values	
tutorial_update	
system.users	
system.profile	
system.indexes	
store	
sample_table	
sample_data	

Field	Type	Key
_id	org.bson.t	Y
exchange	java.lang.S	F
stock_symbol	java.lang.S	F
date	java.lang.S	F
open	java.lang.T	F
high	java.lang.T	F
low	java.lang.T	F
close	java.lang.T	F

Editor(SQL Editor)

The screenshot displays the Eclipse IDE interface with three main components:

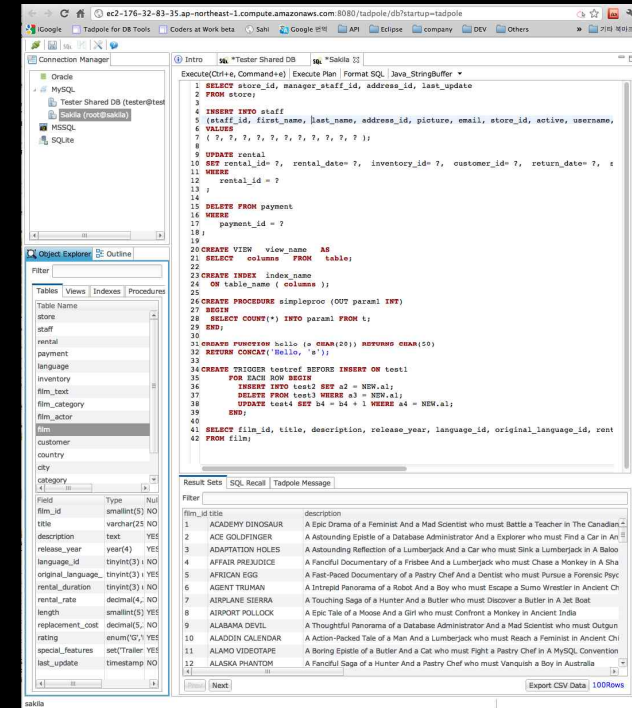
- All Extensions:** A tree view on the left showing the extension hierarchy. The path is: `org.eclipse.ui.editors` > `Home (editor)` > `Main Editor (editor)`. Buttons for `Add...`, `Remove`, `Up`, and `Down` are visible.
- Extension Element Details:** A configuration panel on the right for the `editor` extension. It includes fields for `id*` (set to `com.hangum.db.browser.rap.core.editor.main`), `name*` (set to `%editor.name.0`), `icon` (set to `resources/icons/sql-query.png`), `class` (set to `com.hangum.db.browser.rap.core.edito`), and `default` (set to `false`).
- SQL Editor:** A window titled `SQL *SQLite Sample` showing a SQL query:

```
1 SELECT id, name
2 FROM sample_table;
3
4 SELECT id, name
5 FROM s2ample_table;
```
- MainEditor.java:** A code editor window showing the Java source code for the `MainEditor` class:

```
1 package com.hangum.db.browser.rap.core.editors.main;
2
3 import java.sql.PreparedStatement;
4
5 /**
6  * 쿼리 수행 및 검색 창.
7  *
8  * 메디타는 org.eclipse.orion.client-20120810-1752 로 작업.
9  *
10 * @author hangumNote
11 */
12 public class MainEditor extends EditorPart {
13     /** Editor ID. */
14     public static final String ID = "com.hangum.db.browser.rap.core.editor.main"; //$NON-NLS-1$
15     /** Logger for this class. */
16     private static final Logger logger = Logger.getLogger(MainEditor.class);
17 }
```


Perspective

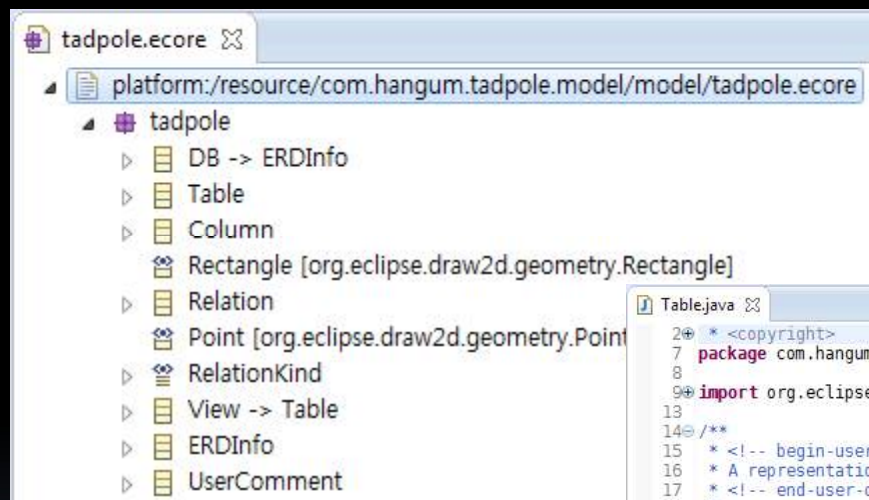
- 화면(Viewer, Editor) 배치



```
Perspective.java ✕
1 package com.hangum.db.browser.rap;
2
3 import org.eclipse.ui.IFolderLayout;
4
5 /**
6  * Configures the perspective layout. This class is contributed
7  * through the plugin.xml.
8  */
9
10 public class Perspective implements IPerspectiveFactory {
11
12     public void createInitialLayout(IPageLayout layout) {
13         String editorArea = layout.getEditorArea();
14         layout.setEditorAreaVisible(true);
15         layout.setFixed(true);
16
17         IFolderLayout leftFolder = layout.createFolder("id"+ManagerViewer.ID, IPageLayout.LEFT, 0.27f, editorArea);
18         leftFolder.addView(ManagerViewer.ID);
19
20         IFolderLayout leftUnderFolder = layout.createFolder("id"+ExplorerViewer.ID, IPageLayout.BOTTOM, 0.3f, "id"+ManagerViewer.ID);
21         leftUnderFolder.addView(ExplorerViewer.ID);
22         // leftUnderFolder.addView(IPageLayout.ID_OUTLINE);
23
24     }
25 }
26
27 }
```

EMF (Data Modeling)

- Model to Java, Test code generation



```
Table.java
20 * <copyright>
7 package com.hangum.tadpole.model;
8
9 import org.eclipse.draw2d.geometry.Rectangle;
13
14 /**
15 * <!-- begin-user-doc -->
16 * A representation of the model object '<em><b>Table</b></em>'.
17 * <!-- end-user-doc -->
18 *
19 * <p>
20 * The following features are supported:
21 * <ul>
22 * <li>@link com.hangum.tadpole.model.Table#getColumns <em>Columns</em></li>
23 * <li>@link com.hangum.tadpole.model.Table#getDb <em>Db</em></li>
24 * <li>@link com.hangum.tadpole.model.Table#getName <em>Name</em></li>
25 * <li>@link com.hangum.tadpole.model.Table#getConstraints <em>Constraints</em></li>
26 * <li>@link com.hangum.tadpole.model.Table#getIncomingLinks <em>Incoming Links</em></li>
27 * <li>@link com.hangum.tadpole.model.Table#getOutgoingLinks <em>Outgoing Links</em></li>
28 * <li>@link com.hangum.tadpole.model.Table#getLogicalName <em>Logical Name</em></li>
29 * <li>@link com.hangum.tadpole.model.Table#getComment <em>Comment</em></li>
30 * <li>@link com.hangum.tadpole.model.Table#getUserCommentReference <em>User Comment Reference</em></li>
31 * </ul>
32 * </p>
33 *
34 * @see com.hangum.tadpole.model.TadpolePackage#getTable()
35 * @model
36 * @generated
37 */
38 public interface Table extends EObject {
```


GEF (ERD)

The screenshot shows the Eclipse IDE's 'Extensions' dialog. The 'All Extensions' list on the left includes 'org.eclipse.ui.editors' and 'Tadpole ERD (editor)'. The 'Extension Element Details' panel on the right shows the configuration for the 'Tadpole ERD' editor, including its ID, name, icon, and class.

Extensions

Define extensions for this plug-in in the following section.

type filter text

- org.eclipse.rap.ui.entrypoint
- org.eclipse.rap.ui.branding
- org.eclipse.ui.perspectives
- org.eclipse.ui.editors
 - Tadpole ERD (editor)

Extension Element Details

Set the properties of "editor". Required fields are denoted by "*".

id*: com.hangum.tadpole.erd.core.editor

name*: Tadpole ERD

icon: resources/icons/erd.png

extensions:

class: com.hangum.tadpole.erd.core.editor.Tadpc

command:

launcher:

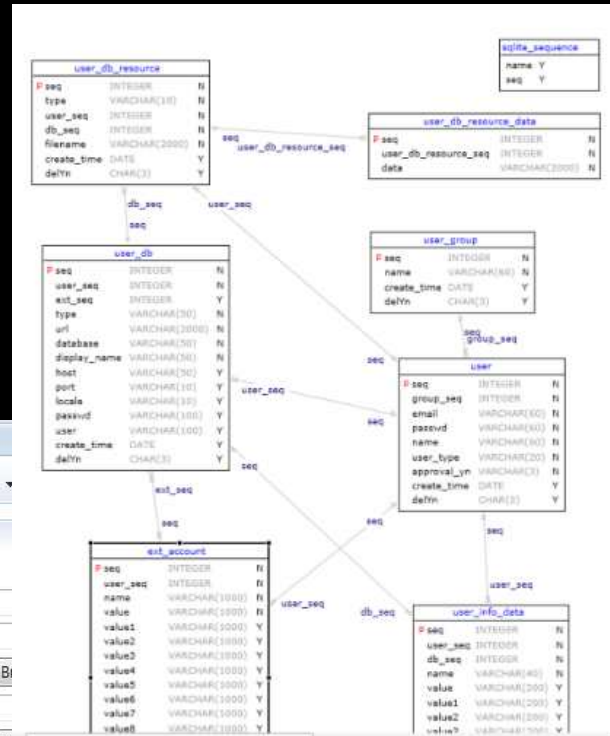
contributorClass: com.hangum.tadpole.erd.core.editor.Tadpc

default: false

filenames:

symbolicFontName:

matchingStrategy:



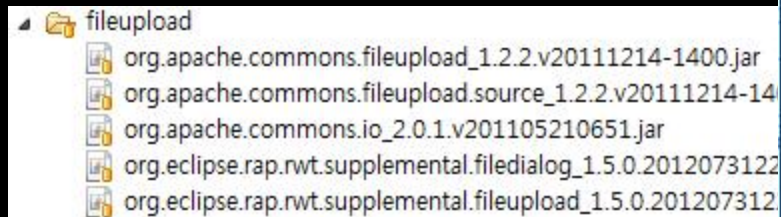
```
TadpoleEditor.java
1 package com.hangum.tadpole.erd.core.editor;
2
3 import java.io.InputStream;
4
5
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51
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55
56
57
58
59
60
61 /**
62  * tadpole editor
63  *
64  * @author hangum
65  *
66  */
67 public class TadpoleEditor extends GraphicalEditor { //WithFlyoutPalette {
68     public static final String ID = "com.hangum.tadpole.erd.core.editor"; //NON-NLS-1$
69     /**
70      * Logger for this class
71      */
72     private static final Logger logger = Logger.getLogger(TadpoleEditor.class);
73
74     /** first init data */
75     private DB db;
76     private UserDBDAO userDB;
77     private UserDBResourceDAO userDBERD;
78     /** 처음 로드될 때부터 모든 테이블 로드 인지 */
79     private boolean isAllTable = false;
```

Themes (css)

The screenshot shows the Eclipse IDE interface with several windows open. On the left, the 'Extensions' window for 'com.hangum.db.browser.rap' is visible, showing a list of extensions. The 'All Extensions' list includes 'org.eclipse.rap.ui.entrypoint', 'org.eclipse.rap.ui.branding', 'Tadpole for DB Tools - 0.0.8 SR4 (branding)', 'org.eclipse.equinox.http.registry.resources', and 'org.eclipse.core.runtime.products'. The 'Tadpole for DB Tools' extension is selected. To the right, the 'Preferences' dialog is open, showing the 'General' tab for the selected extension. The 'General' tab contains fields for 'Session time out (s)' (set to 60) and 'Export delimiter' (set to ','). Below the preferences, the 'Extension Element Details' window is open, showing the properties for the 'theme' extension. The 'id*' field is 'com.study.rap.sample.theme', the 'file*' field is 'theme1/theme.css', and the 'name' field is empty. A red box highlights the 'file*' field and its 'Browse...' button. In the bottom right corner, there is a small 'About' button.

```
58 Button {  
59   color: #705e42;  
60   padding: 3px 6px 3px 4px;  
61   font: bold 12px Arial, Helvetica, sans-serif;  
62 }
```

File upload



```
/**
 * 저장 이벤트
 *
 * @return
 */
private String startUploadReceiver() {
    final DiskFileUploadReceiver receiver = new DiskFileUploadReceiver();
    FileUploadHandler uploadHandler = new FileUploadHandler(receiver);
    uploadHandler.addUploadListener(new FileUploadListener() {

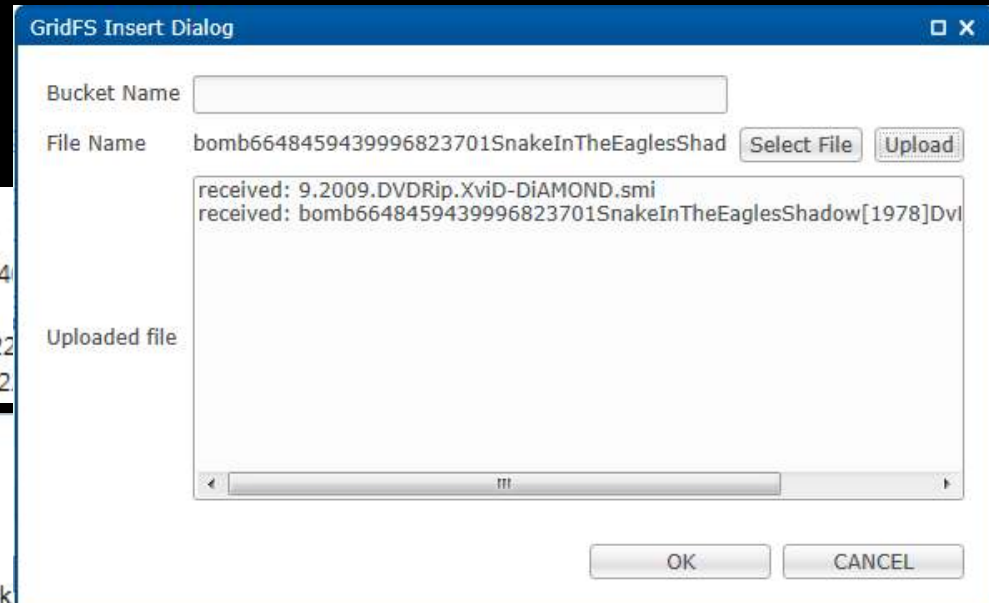
        public void uploadProgress(FileUploadEvent event) {
        }

        public void uploadFailed(FileUploadEvent event) {
            addToLog( "upload failed: " + event.getFileName() ); //$NON-NLS-1$
        }

        public void uploadFinished(FileUploadEvent event) {
            addToLog( "received: " + event.getFileName() ); //$NON-NLS-1$

            listFiles.add(receiver.getTargetFile().getAbsolutePath());
        }
    });

    return uploadHandler.getUploadUrl();
}
```



Session

- 사용자 로그인 정보
- 사용자 기초 정보

```
/**
 * 신규 user의 사용자를 등록
 *
 * @param email
 * @param name
 */
public static void newLogin(int groupSeq, int seq, String email, String password, String name, int userType, int managerSeq) {
    HttpSession sStore = RWT.getSessionStore().getHttpSession();

    sStore.setAttribute(SESSEION_NAME.GROUP_SEQ.toString(), groupSeq);
    sStore.setAttribute(SESSEION_NAME.SEQ.toString(), seq);
    sStore.setAttribute(SESSEION_NAME.LOGIN_EMAIL.toString(), email);
    sStore.setAttribute(SESSEION_NAME.LOGIN_PASSWORD.toString(), password);
    sStore.setAttribute(SESSEION_NAME.LOGIN_NAME.toString(), name);
    sStore.setAttribute(SESSEION_NAME.LOGIN_TYPE.toString(), userType);
    sStore.setAttribute(SESSEION_NAME.MANAGER_SEQ.toString(), managerSeq);
}

public static int getGroupSeq() {
    HttpSession sStore = RWT.getSessionStore().getHttpSession();
    return (Integer)sStore.getAttribute(SESSEION_NAME.GROUP_SEQ.toString());
}
```

Server Push(UICallback)

Level 2 - Log all operations Start Profiling Stop Profiling Remove Profile Data

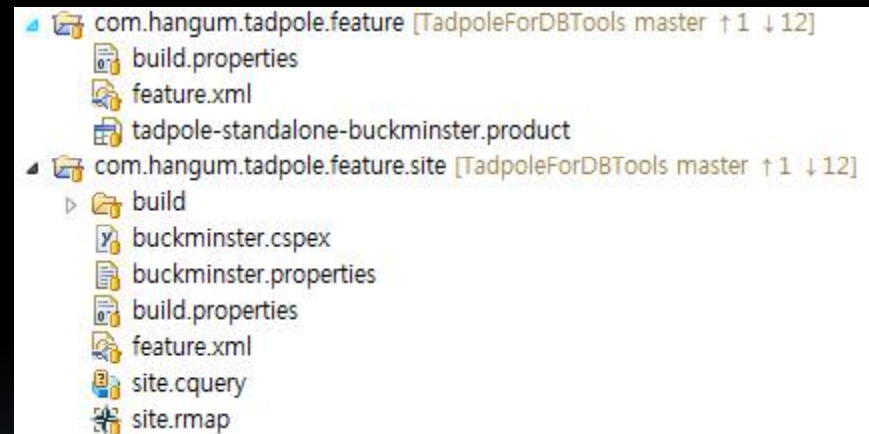
Display 5 sec great then(millis) 100 Limit 100 Start Refresh Stop Refresh

Time	Collection	Query	nreturn	nscanned	scanAndOrder	millis	client	user
------	------------	-------	---------	----------	--------------	--------	--------	------

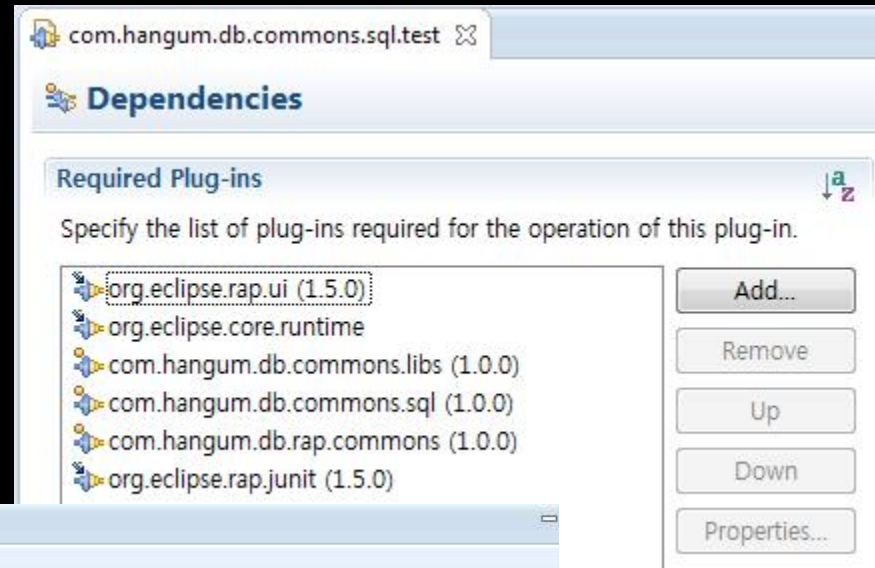
```
ProfilingEditor.java
234
235- /**
236-  * start ui thread
237-  */
238- private void startUIThread() {
239-     synchronized(tableViewerResult) {
240-         if(!boolUIThreadRunning) {
241-             UICallBack.activate(ProfilingUICallbackID);
242-             notifierThread = new Thread(createRunnable());
243-             notifierThread.setDaemon(true);
244-             notifierThread.start();
245-         }
246-     }
247- }
248
249- /**
250-  * stop ui thread
251-  */
252- private void stopUIThread() {
253-     synchronized(tableViewerResult) {
254-         logger.debug("[stopUIThread] stop thread");
255-         boolUIThreadRunning = false;
256-     }
257- }
258
259- /**
260-  * notifier runnable
261-  */
262- private Runnable createRunnable() {
263-     final int refreshSec = Integer.parseInt(textRefresh.getText()) * 1000;
264-
265-     return new Runnable() {
266-         public void run() {
```


feature

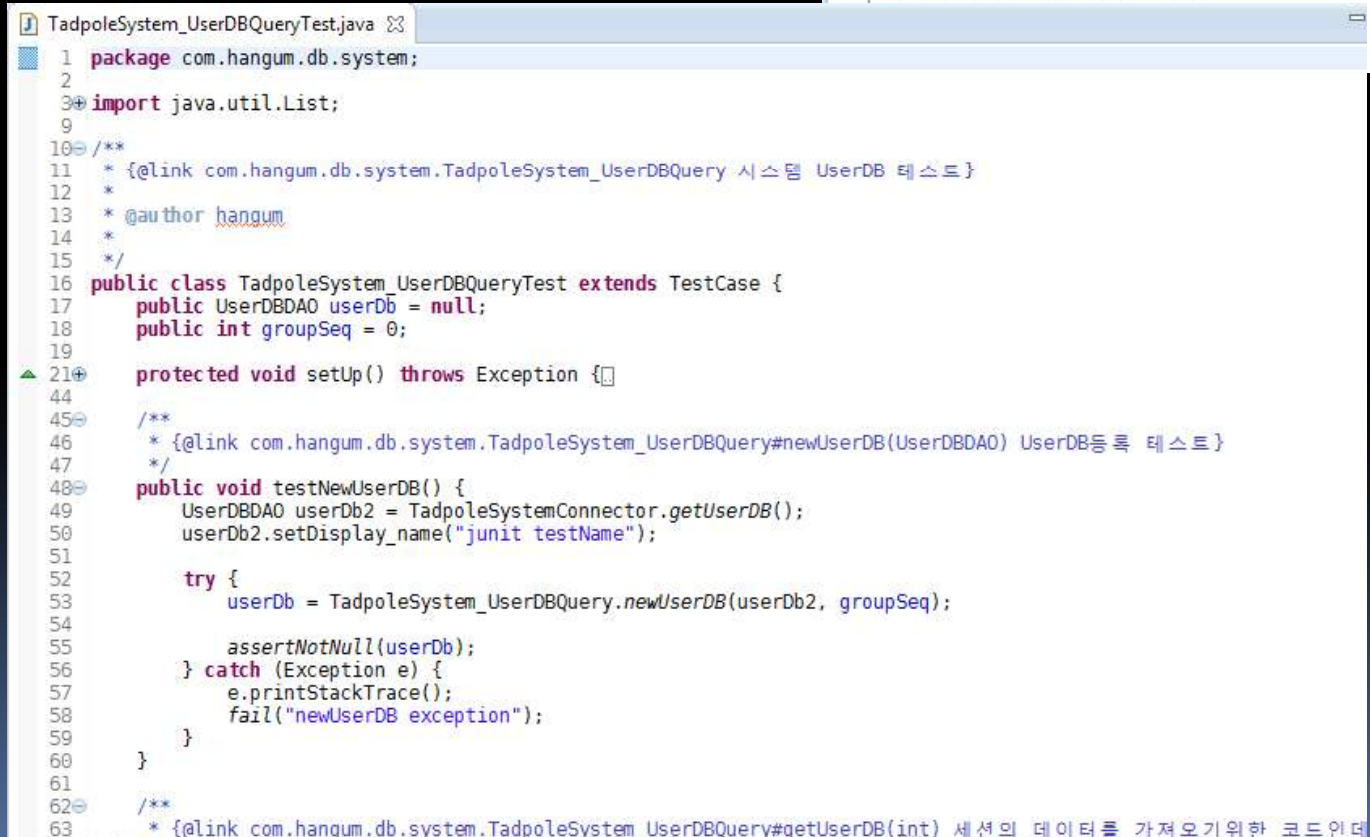
- 제품의 구조 정의
 - 제품의 배포
 - 제품의 업데이트



Test



The screenshot shows the Eclipse IDE's Dependencies view for the project `com.hangum.db.commons.sql.test`. The view is titled "Dependencies" and contains a section for "Required Plug-ins". Below this section, a list of plug-ins is displayed, including `org.eclipse.rap.ui (1.5.0)`, `org.eclipse.core.runtime`, `com.hangum.db.commons.libs (1.0.0)`, `com.hangum.db.commons.sql (1.0.0)`, `com.hangum.db.rap.commons (1.0.0)`, and `org.eclipse.rap.junit (1.5.0)`. To the right of the list are several buttons: "Add...", "Remove", "Up", "Down", and "Properties...".



```
1 package com.hangum.db.system;
2
3 import java.util.List;
4
5
6
7
8
9
10 /**
11  * {@link com.hangum.db.system.TadpoleSystem_UserDBQuery 시스템 UserDB 테스트}
12  *
13  * @author hangum
14  *
15  */
16 public class TadpoleSystem_UserDBQueryTest extends TestCase {
17     public UserDBDAO userDb = null;
18     public int groupSeq = 0;
19
20
21     protected void setUp() throws Exception {
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45     /**
46      * {@link com.hangum.db.system.TadpoleSystem_UserDBQuery#newUserDB(UserDBDAO) UserDB등록 테스트}
47      */
48     public void testNewUserDB() {
49         UserDBDAO userDb2 = TadpoleSystemConnector.getUserDB();
50         userDb2.setDisplay_name("junit testName");
51
52         try {
53             userDb = TadpoleSystem_UserDBQuery.newUserDB(userDb2, groupSeq);
54
55             assertNotNull(userDb);
56         } catch (Exception e) {
57             e.printStackTrace();
58             fail("newUserDB exception");
59         }
60     }
61
62     /**
63      * {@link com.hangum.db.system.TadpoleSystem_UserDBQuery#getUserDB(int) 세션의 데이터베이스 가져오기 위한 코드인데
```

Product (Standalone)

Overview

General Information
This section describes general information about the product.

ID:
Version:
Name: tadpole-standalone
 The product includes native launcher artifacts

Product Definition
This section describes the launching product extension identifier and application.

Product: New...
Application:
The product configuration is based on: plug-ins features

Testing

- [Synchronize](#) this configuration with the product's defining plug-in.
- Test the product by launching a runtime instance of it:
 - [Launch a RAP Application](#)
 - [Launch an Eclipse application](#)
 - [Launch a RAP Application in Debug mode](#)

Exporting
Use the [Eclipse Product export wizard](#) to package and export the product defined in this configuration.

To export the product to multiple platforms:
1. Install the RCP delta pack in the target platform.

Setting properties in a config.ini file. Select whether an existing config.ini file should be used or one generated.

Generate a default config.ini file
 Use an existing config.ini file
File: Browse...

Start Levels
Specify custom start levels for plug-ins.

Plug-in	Start Level	Auto-Start
com.hangum.db.browser.rap	default	true
com.hangum.db.browser.rap.core	default	true
com.hangum.db.browser.start	default	true
com.hangum.db.commons.libs	default	true
com.hangum.db.commons.ui	default	true

Properties
Specify configuration properties that will be added to generated config.ini files

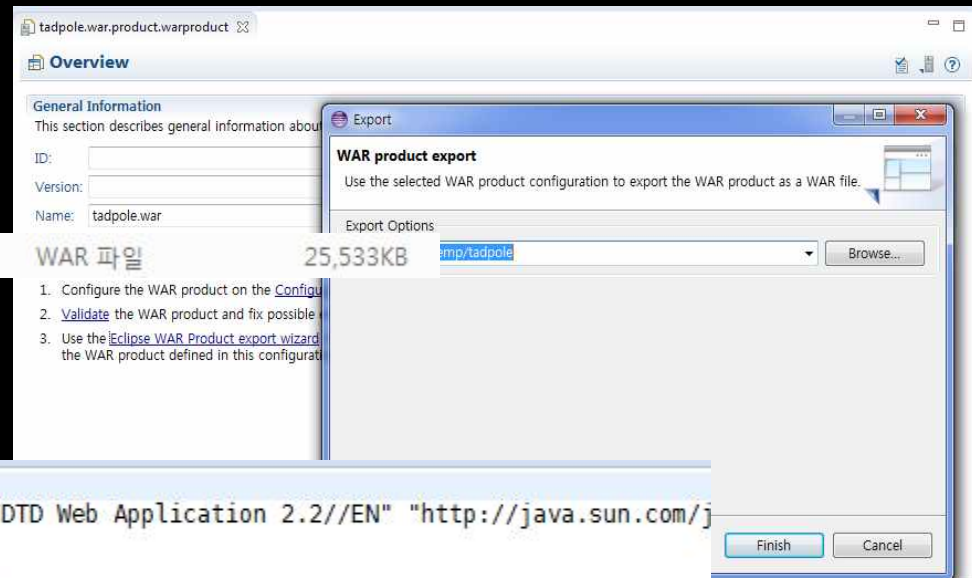
Name	Value
<input type="text"/>	<input type="text"/>

Overview | Dependencies | Configuration | Launching | Splash | Branding | Licensing

Product (WAR)

tadpole.war

2012-08-31 오전 4:28



```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.2//EN" "http://java.sun.com/j
3 <web-app id="WebApp">
4   <servlet id="bridge">
5     <servlet-name>equinoxbridgeservlet</servlet-name>
6     <display-name>Equinox Bridge Servlet</display-name>
7     <description>Equinox Bridge Servlet</description>
8     <servlet-class>org.eclipse.equinox.servletbridge.BridgeServlet</servlet-class>
9
10    <!-- Framework Controls could be useful for testing purpose, but
11         we disable it per default -->
12    <init-param>
13      <param-name>enableFrameworkControls</param-name>
14      <param-value>>false</param-value>
15    </init-param>
16
17    <!-- Enable multi-language support for the extension registry -->
18    <!-- the OSGi console is useful for trouble shooting but will fill up your
19         appserver log quickly, so deactivate on production use. Uncomment
20         the -console parameter to enabled OSGi console access. -->
21    <init-param>
22      <param-name>commandline</param-name>
23      <param-value>-registryMultiLanguage -consolelog -test -debuglog -ws rap</param-value>
24    </init-param>
25
26    <load-on-startup>1</load-on-startup>
27  </servlet>
```