

# Memory Working Plan

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## Abstract

This document will show how RD Video developing was. In this way, we get a brief resume where we analyze main difficulties: Youtube API explore, Channel Selection and Methodology.

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# 1.....Proposal

As shown in Figure 1 and Figure 2, we are aiming to develop a portal that will integrate videos extracted for YouTube. In our case the main contents are videos from Youtube API

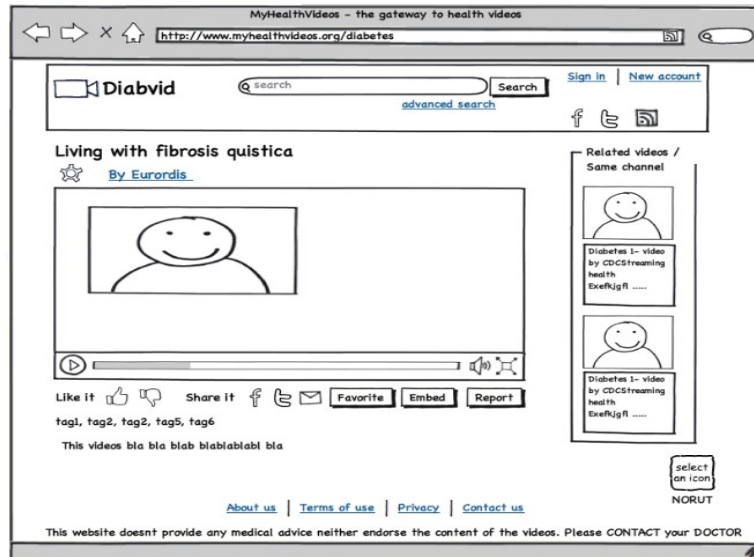


Figure 1

Figure 1 show a the whole video selected, information around it metadata Youtube API. Optional option: Share channels.

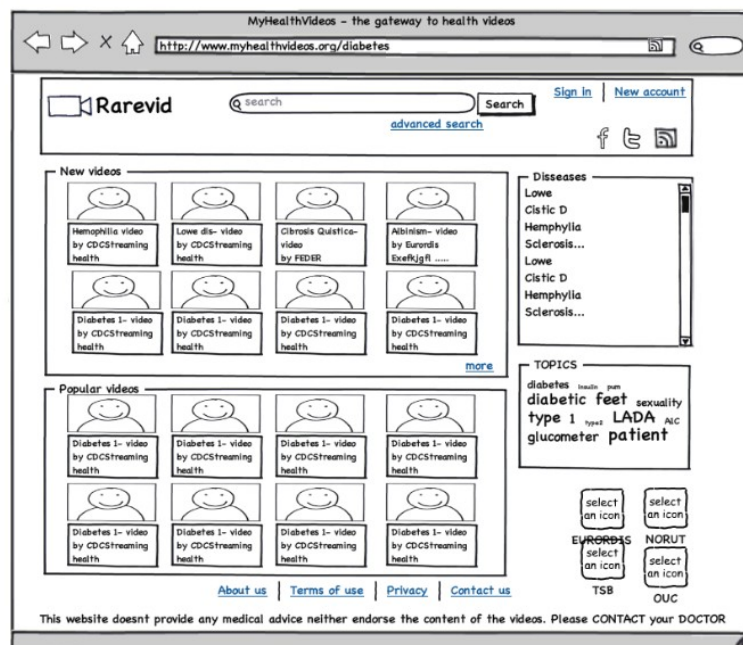


Figure 2

Figure 2 define a template for RD Videos main page, we need a search basic option with some social network information, we need some portlets where we show each video (with a preview image or minimal description of what this video is).

Optional option on this figure: Categorization, Tags and social icons.

## .2 Infrastructures

### Standarization

#### Common Folder

- We define a common folder for all server where will include all generic data tree, there will have ALL data on **/saluteca** folder
- In myhealthservice.itek.norut.no will find **/saluteca**, with this content total 16K

```
drwxr-x--- 2 root      adm  4.0K 2010-12-06 13:04 backup
drwxr-xr-x 3 root      root 4.0K 2010-12-06 13:05 bbdd
drwx----- 3 subversion root 4.0K 2010-12-07 20:39 subversion
drwx----- 4 www-data   501 4.0K 2010-12-08 14:58 www
```
- **Backup** contains all files that we would make a backup (preference on tar.gz system).
- **bbdd** contains all databases we are working on (mysql or postgres).
- **subversion** I keep it for get a probably subversion system we could need.
- **www** DocumentData. For this moment we don't change DocumentData for apache (follow to /var/www) we could do two options:
  - make a simbolyc links to /saluteca/www
  - or change configuration apache for document root to /saluteca/www or each other subdomain.
- The other host **bb4.itek.norut.no** we will change the **/home/luis** folder to **/saluteca**.

### Key Keychain

#### *1st option*

- In our keys I propose to keep all passwords (systems and mysql) into the /root folder, exactly in the shadow .pass folder in the root.
- Previously we whill chage to 700 root folder.

#### *2nd option*

- Take an user for each one with an administrative privileges and for each other services (mysql, postgresl and sudo command for system).

### Project Management

- We will use taskfreak project as our task project and subversion.
- We will use subversion and subversion toolkit (by gnome frontend and eclipse).

### Subversion

- We keep an standar structure for subversion

- We can find information about how subversion works on: <http://www.loni.ucla.edu/twiki/pub/Infrastructure/Subversion/Subversion-HOWTO.pdf> HOWTO
- Extended information about subversion: <http://svnbook.red-bean.com/nightly/en/svn-book.html> svn-book
- [Working with patch files](#)

## Subversion clients

- KdeSVN for kDE Desktop
- Subclipse for Eclipse IDE

### IDE for developers

- **Eclipse (preferred)**
  - PHP Eclipse: <https://sourceforge.net/projects/phpeclipse/files/a%29%20Eclipse%203.3.x/PHPEclipse-1.2.3/PHPEclipse-1.2.3.200910091456PRD-bin.zip/download>
  - Subclipse: <http://subclipse.tigris.org/files/documents/906/39525/site-1.0.6.zip>
  - with PHP plugins
  - with J2EE appliances
- Vim
- Scite
- Netbeans

## Youtube API Study with Drupal

For this moment this php script is not include in drupal's modules. I create the following classes for our challenge: \* Basics Classes:

- **Channel**: For envolving object for all Channel properties from youtube.
- **MeasureTime**: For controlling execution time of some strategicals code procedure
- **VideoEntry**: For getting bases elementos of one video and its properties.
- **Advances Classes**:
  - **ChannelFeed**: For managing all videos feed which belong to a channel.
  - **ChannelsFeed**: For managing all channels feeds. This class use ChannelFeed for getting all its video feeds

## HTML5 integration

### *REPTAG Module*

- In our case i have been following this [link](#) for include a HTML youtube format in our portal
  - This could be very interesting for getting this video on each dispositive (ipad, galaxy) following a standard form.
  - I follow the REP[placement]Tag and find any good solution for getting this a good vision on it.
  - Adding this module and configuring make some recommended changes on its module could give an HTML5 solution!.

- On `_reptag_video_init()` procedure in `reptag` module will add  

```
"#{YOUTUBE5:(.*?):([0-9]*)x([0-9]*)}#e" →
"_reptag_video_youtubevideo5('\1', \2, \3);",
"#{YOUTUBE5:(.*?)}#e" → "_reptag_video_youtubevideo5('\1');",
```
- Besides, `_reptag_video_help()` procedure on `_reptag_video_init()` method in `reptag` module will add  

```
"{YOUTUBE5:id:50x50}" → "YouTube Video in HTML5 with dimensions (width
x height)",
"{YOUTUBE5:id}" → "YouTube Video in HTML5 (replace id with the 'v' id
from your YouTube video)",
```
- We need to add the following method on this module.  

```
function _reptag_video_youtubevideo5($youtubeid, $width = 400, $height =
350) {
    $output = <<<EOF
    <iframe class="youtube-player" type="text/html" width="$width"
height="$height" src="http://www.youtube.com/embed/$youtubeid"
frameborder="0"></iframe>
    EOF;

    return $output;
}
```

### *Media\_youtube module*

- We need change a template `tpl` file for avoiding twice videos (one for `filed_url` and other for `body`), in this case the file changed was:
- DRUPALINSTALLATION/modules/media\_youtube/themes/media-youtube-default-external.tpl.php**

```
<?php
// $Id: media-youtube-default-external.tpl.php,v 1.1.2.1 2010/11/12
14:37:18 aaron Exp $

/**
 * @file media_youtube/themes/media-youtube-default-external.tpl.php
 *
 *      *      Template      file      for      Media:      YouTube's
theme('media_youtube_default_external').
 *
 * This will display YouTube's default embedded video.
 *
 * This is the fallback display, for when we don't have SWF Object or
 * JW Flash Media Player.
 */
*?>
```

- We need EMF module and media\_youtube module installed for displaying preview images**
- All code was erasing, this is not necessary, **body field will show on main windows → this must show preview with a image! never with a video preview on views administrator.**

### *How to use*

- The **body** field in **node\_revision** table we must insert a tag **{YOUTUBE5:VideoID}** or **{YOUTUBE5:VideoID:500×400}** for a scale. VideoID is the Id of the youtube video.
- This will modify the crawling code on our insert values tables.

# Selection of Content Management System

Finally we include a **drupal versión 6.20**, in other reason because we need all views configurations on youtube api display. There are 3 basics directories.

Drupal is the most popular CMS for the multiples installation re-design and development project. The custom capabilities allow for complete control of the block elements of each page and content category. Technical functionality items are no longer limitations in the Drupal CMS

## backup

This directory contains all shell scripts for backing up the structure of /saluteca. This is used with crontab service

## mhs

This directory have all php & bash script for crawling videosid for storing on drupal database.

## er

This is a drupal 6.20 version where contains the prepare all videosid views for displaying on drupal CMS.

## sql

This contains a database dump of the 6.20 drupal version.

## .3 Methodology on crawler

- We take all channels of media\_youtube\_channel (a new create table) where gets all channels for sending to ChannelFeed class. This class take ChannelID and explore all videos fees for storing on each drupal's table. \* This methodology is provissioal, at this momento, we erase all node elementos from drupal tabla and return a new values for crawling youbute api. \* This method take about 36-40 minutes. \* Here we show a values of table.
- On 3 am crontab call to bash script where use the feedYoutube.php file were is asigning for this propouse. This files ares storing on /etc/mhs files on mhs server. Theres a alpha 0.0.1 running on this server.
- Results of crawling tables:

- **Node**

This is the most important drupal table, here we include each element and drupal use it on it configuration.

```
+-----+-----+-----+-----+-----+-----+
+
| Field          | Type          | Null | Key | Default | Extra
```

nid	int(10) unsigned	NO	PRI	NULL	auto_increment	
vid	int(10) unsigned	NO	UNI	0		
type	varchar(32)	NO	MUL			
language	varchar(12)	NO				
title	varchar(255)	NO	MUL			
uid	int(11)	NO	MUL	0		
status	int(11)	NO	MUL	1		
created	int(11)	NO	MUL	0		
changed	int(11)	NO	MUL	0		
comment	int(11)	NO		0		
promote	int(11)	NO	MUL	0		
moderate	int(11)	NO	MUL	0		
sticky	int(11)	NO		0		
tnid	int(10) unsigned	NO	MUL	0		
translate	int(11)	NO	MUL	0		

○ **describe node\_revision**

Field	Type	Null	Key	Default	Extra
nid	int(10) unsigned	NO	MUL	0	
vid	int(10) unsigned	NO	PRI	NULL	auto_increment
uid	int(11)	NO	MUL	0	
title	varchar(255)	NO			
body	longtext	NO		NULL	
teaser	longtext	NO		NULL	
log	longtext	NO		NULL	
timestamp	int(11)	NO		0	
format	int(11)	NO		0	



## ○ users

Drupal users table, nos used on this version but for a future upgrading we take in notes.

Field	Type	Null	Key	Default	Extra
uid	int(10) unsigned	NO	PRI	NULL	
auto_increment					
name	varchar(60)	NO	UNI		
pass	varchar(32)	NO			
mail	varchar(64)	YES	MUL		
mode	tinyint(4)	NO		0	
sort	tinyint(4)	YES		0	
threshold	tinyint(4)	YES		0	
theme	varchar(255)	NO			
signature	varchar(255)	NO			
signature_format	smallint(6)	NO		0	
created	int(11)	NO	MUL	0	
access	int(11)	NO	MUL	0	
login	int(11)	NO		0	
status	tinyint(4)	NO		0	
timezone	varchar(8)	YES		NULL	
language	varchar(12)	NO			
picture	varchar(255)	NO			
init	varchar(64)	YES			
data	longtext	YES		NULL	

## Drupal fields & Youtube fields corresponding

- For this moment I could find the following corresponding. As we know we will recollect Youtube metadata from the API and we need to include on drupal database. In this way, we show how method can affect on each table of drupal.

The first column show the method called by our library and column 2 to 4 select the

property of the table that is affected.

Video Entry Class	Content_type_raredisease table	node table	Node_revision table
.title()	field_video_url_title	title	title
.description()	field_video_url_title	-	body
.categoria()	Discarted on this version		
.tags()	Pending	-	-
.watchPage()	Discarted on this version		
.duration()	field_video_url_duration	-	-
.viewcount()	Discarted on this version	-	-
.rating()	Discarted on this version	-	-
.geoLocation()	Discarted on this version	-	-
ChannelID()	For searching	-	-

- The rest of VideoEntry Class methods must be introduce in a table.
  - First I will try to find modules where introduce on the base scheme.
  - In other case, we will create a table containing this method.

## .4 Annexes

- Complete task of RdVideos: document TaskFreak.pdf
  - Task project url: <http://lab-virtual.scc.uned.es/taskfreak>
- Knowledge document:
  - Wiki url: <http://lab-virtual.scc.uned.es/dokuwiki>
- Grant acceso for Gregorio and Luis.

### Subversion & Control of version

- Source code on tar.gz file.