

Ticket 23: Support for RSP taggin

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Abstract

Matthew said RSP uses their naming convention for files, internally. This is a general ticket on how files should be tagged. A couple of suggestions is to use key-values pairs as metadata (minutes 20 March 2008)

1 Design

In order to address this ticket, some extra columns had been added to the 'file' table in the database. See figure 1

The column added are 'job', 'sequence' and 'shot'. Each file in RSP will be under a specific directory structure, therefore, the information related to the 'job', 'sequence' and 'shot' is extracted from the path of such file.

files
+id
+name
+bytes
+uid
+gid
+directory_id
+blocks
+sequence
+job
+shot

Figure 1: New 'file' table

2 Modifications Done

- In order to include the extra columns 'job', 'sequence' and 'shot' in the 'file' table, the file *earth/db/migrate/060-add_rsp_tag_to_files.rb* had been created. See figure 2. This task took aprox 30 minutes
- In order to allow the user to search through 'job', 'sequence' and/or 'shot', the file *earth/app/views/browser/_breadcrumb_and_filter.html.haml* was modified as showed in figure 3. This changes are reflected in figure 4. This took aprox 30 minutes
- In order to populate the new columns in the 'file' table, some changes in *earth/lib/earth_plugins/file_monitor.rb* where done as show in figure 5.

```

1 # Add a new columns 'sequence', 'job' and 'shot' to table files
2 # for tag support for RSP name convention
3 class AddRspTagToFiles < ActiveRecord::Migration
4   def self.up
5     add_column :files, :sequence, :string
6     add_column :files, :job      , :string
7     add_column :files, :shot    , :string
8   end
9
10  def self.down
11    remove_column :files, :sequence
12    remove_column :files, :job
13    remove_column :files, :shot
14  end
15 end

```

Figure 2: File to add the extra columns into the 'file' table

```

30 .Right#Filter{:style => "margin: 1em 0.1em 0 0;"}
31 - form_tag({:overwrite_params => {}}, {:method => 'get'}) do
32   %table
33     %caption Filter
34     %tr
35       %td.first-row{:style => "text-align: right;"}= content_tag :label, "by filename:", "for" => "filter_filename"
36       %td.first-row= text_field_tag "filter_filename", params[:filter_filename], :size => 15
37     %tr
38       %td.second-row{:style => "text-align: right;"}= content_tag :label, "by user:", "for" => "filter_user"
39       %td.second-row= text_field_tag "filter_user", params[:filter_user], :size => 15
40       = auto_complete_stylesheet
41       = content_tag "div", "", :id => "filter_user_auto_complete", :class => "auto_complete"
42       = auto_complete_field "filter_user", :url => {:action => "auto_complete_for_filter_user"}
43     %tr
44       %td.third-row{:style => "text-align: right;"}= content_tag :label, "by job:", "for" => "filter_job"
45       %td.third-row= text_field_tag "filter_job", params[:filter_job], :size => 15
46     %tr
47       %td.fourth-row{:style => "text-align: right;"}= content_tag :label, "by sequence:", "for" => "filter_sequence"
48       %td.fourth-row= text_field_tag "filter_sequence", params[:filter_sequence], :size => 15
49     %tr
50       %td.last-row{:style => "text-align: right;"}= content_tag :label, "by shot:", "for" => "filter_shot"
51       %td.last-row= text_field_tag "filter_shot", params[:filter_shot], :size => 15
52     %tr

```

Figure 3: Modifications to allow the user to search by 'job', 'sequence' and or 'shot'

The time expended in order to understand which file to change and how to do it was aprox 7 hours. After finding where the changes should be done, the time coding was aprox 10 minutes

- In order to execute the search, some lines were added to the file *earth/app/models/earth/file.rb* in order to return only the files matching the searching criteria of the user. See figure 6. This took aprox 20 minutes

Figure 4: Incorporation of extra fields for searching by RSP directory structure convention

```

333 # Jon: Include 'job' and 'sequence' into the table 'files'
334 # the code belong use to be:
335 #   Earth::File.benchmark("Creating file with name #{name}", Logger::DEBUG, !log_all_sql) do
336 #     directory.files.create(:name => name, :stat => stats[name])
337 #   end
338 pathArray = "#{directory.path}".split('/')
339 seq = pathArray.last
340 job = pathArray[pathArray.length-2]
341 Earth::File.benchmark("Creating file with name #{name}", Logger::DEBUG, !log_all_sql) do
342   directory.files.create(:name => name, :job => job, :sequence => seq, :shot => name, :stat => stats[name])
343 end
344 # Jon : End include 'job' and 'sequence' into the table 'files'

```

Figure 5: Changes done to file_monitor.rb

```

79 # JON - support for job
80 filter_job = params[:filter_job]
81 filter_job = "*" if filter_job.blank?
82 # JON - end
83
84 # JON - support for sequence
85 filter_sequence = params[:filter_sequence]
86 filter_sequence = "*" if filter_sequence.blank?
87 # JON - end
88
89 # JON - support for shot
90 filter_shot = params[:filter_shot]
91 filter_shot = "*" if filter_shot.blank?
92 # JON - end
93
101 # JON - search files using tags
102 # search files through job , sequence and shot
103 elsif filter_job != '*' && filter_sequence != '*' && filter_shot != '*'
104   ["files.job LIKE ?", filter_job.tr('*', '%'), filter_sequence.tr('*', '%'), filter_shot.tr('*', '%')]
105
106 # search files through job and sequence
107 elsif filter_job != '*' && filter_sequence != '*'
108   ["files.job LIKE ?", filter_job.tr('*', '%'), filter_sequence.tr('*', '%')]
109 # search files through shot and sequence
110 elsif filter_shot != '*' && filter_sequence != '*'
111   ["files.shot LIKE ?", filter_shot.tr('*', '%'), filter_sequence.tr('*', '%')]
112 # search files through job and shot
113 elsif filter_job != '*' && filter_shot != '*'
114   ["files.job LIKE ?", filter_job.tr('*', '%'), filter_shot.tr('*', '%')]
115 # search files through job
116 elsif filter_job != '*'
117   ["files.job LIKE ?", filter_job.tr('*', '%')]
118 # search files through sequence
119 elsif filter_sequence != '*'
120   ["files.sequence LIKE ?", filter_sequence.tr('*', '%')]
121 # search files through shot
122 elsif filter_shot != '*'
123   ["files.shot LIKE ?", filter_shot.tr('*', '%')]
124 # JON - end
125 end

```

Figure 6: Changes made to the file model