## RUBY ON RAILS - FILE UPLOADING

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You may have a requirement in which you want your site visitors to upload a file on your server. Rails makes it very easy to handle this requirement. Now we will proceed with a simple and small Rails project.

As usual, let's start off with a new Rails application called **testfile**. Let's create the basic structure of the application by using simple rails command.

```
tp> rails new testfile
```

Before starting application development, we should install gem files as shown below -

```
gem install carrierwave
gem install bootstrap-sass
```

Open up your gemfile and add the following two gems at the bottom as shown in the following image –

```
# Windows does not include zoneinfo files, so bundle the tzinfo-data gem

gem 'tzinfo-data', platforms: [:mingw, :mswin, :x64_mingw, :jruby]

gem 'carrierwave', '~> 0.9'

gem 'bootstrap-sass', '~> 2.3.2'
```

After adding gems in the gem file, we need to run the following command on the console –

bundle install

## **Creating the Model**

We need to create a model with two strings as name and attachment as shown below –

```
rails g model Resume name:string attachment:string
```

We need to create the database migration as shown below –

rake db:migrate

We need to generate the controller as shown below –

```
rails g controller Resumes index new create destroy
```

Great! Now we have the basic structure set up. Now we need to create an uploader. An Uploader came from carrierwave gem and it tells to carrierwave how to handle the files. In short, it contained all file processing functionalities. Run the command to create an uploader as shown below

rails g uploader attachment

Now open the resume model and call the uploader as shown below. Resume model has placed at app/models/resume.rb –

```
class Resume < ActiveRecord::Base
   mount_uploader :attachment, AttachmentUploader # Tells rails to use this uploader for this
model.
   validates :name, presence: true # Make sure the owner's name is present.
end</pre>
```

Before working on controller, we need to modify our config/routes.db as shown below –

```
CarrierWaveExample::Application.routes.draw do
  resources :resumes, only: [:index, :new, :create, :destroy]
  root "resumes#index"
end
```

Lets us edit the controller as shown below.

```
class ResumesController < ApplicationController</pre>
  def index
      @resumes = Resume.all
   end
  def new
      @resume = Resume.new
   end
  def create
      @resume = Resume.new(resume_params)
      if @resume.save
         redirect_to resumes_path, notice: "The resume #{@resume.name} has been uploaded."
         render "new"
      end
  end
  def destroy
      @resume = Resume.find(params[:id])
      @resume.destroy
      redirect_to resumes_path, notice: "The resume #{@resume.name} has been deleted."
  end
  private
      def resume_params
      params.require(:resume).permit(:name, :attachment)
   end
end
```

Let's add bootstrap implementation in css file.css file could be in app/assets/stylesheets/resumes.css.scss

```
@import "bootstrap";
```

Now open up app/views/layouts/application.html.erb and add codes as shown below -

Now we need to set up index views as shown below –

```
<% if !flash[:notice].blank? %>
  <div class = "alert alert-info">
    <%= flash[:notice] %>
  </div>
<% end %>
<br />
<%= link_to "New Resume", new_resume_path, class: "btn btn-primary" %>
<br />
<br />
<thead>.
    Name
       Download Link

    </thead>
    <% @resumes.each do | resume | %>
       <%= resume.name %>
         <%= link_to "Download Resume", resume.attachment_url %>
         <%= button_to "Delete", resume, method: :delete, class: "btn btn-danger",
confirm: "Are you sure that you wish to delete #{resume.name}?" %>
       <% end %>
```

Now, lets edit new.html.erb and add our form code.

```
<% if !@resume.errors.empty? %>
  <div class = "alert alert-error">
     <l
        <% @resume.errors.full messages.each do |msg| %>
           <%= msg %>
        <% end %>
     </div>
<% end %>
<div class = "well">
  <%= form_for @resume, html: { multipart: true } do |f| %>
     <%= f.label :name %>
     <%= f.text_field :name %>
     <%= f.label :attachment %>
     <%= f.file_field :attachment %>
     <%= f.submit "Save", class: "btn btn-primary" %>
</div>
```

Now start the server and visit http://localhost:3000. It will produce a screen similar to as follows -

localhost:3000/resumes

The resume sai has been uploaded.

## New Resume

Name	Download Link	
sai	Download Resume	Delete

One last thing we need to do is filter the list of allowed filetypes. For that we need add simple code as shown below at app/uploaders/attachment\_uploader.rb

```
class AttachmentUploader < CarrierWave::Uploader::Base
   storage :file

def store_dir
   "uploads/#{model.class.to_s.underscore}/#{mounted_as}/#{model.id}"
   end</pre>
```

<pre>def extension_white_list</pre>	
Now start the server and visit http://localhost:3000. Now input a wrong format; it will generate a wrong message as shown below –	
in localhost:3000/resumes	BC
Attachment You are not allowed to upload "js" files, allowed types: pdf, doc, htm, html, docx, jpeg, png, jpg  Name     sai     Attachment     Choose File No file chosen  Save	
For a complete detail on <b>File</b> object, you need to go through the <b>Ruby Reference Manual</b> .	