

GIFTS4MM

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SERVER-SIDE WEB TECHNOLOGIES, E-COMMERCE WEBSITE PROJECT

PROJECT SPECIFICATION

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1. Introduction to a brief review of proposal

GIFTS4MM is proposal for Dynamic Website Gift Shop which offers a corporate gift solution, helping to build brand & business relationships with customers, staff and partners in business.

The purpose of this project is to bring basic knowledge and understanding to students about e-commerce shopping cart logic and how an interactive e-commerce application can be designed using client-side languages, such as CSS and HTML, combined with the server-side Ruby language on Rails framework.

This e-commerce site let the users to log onto the page and browse the repository by various attributes, e.g. product title, description, price etc.

The user is able to register with this site to make allow for purchases. If user is registered as administrator user can add items, delete items, update items, browse catalog. When user is logged , and is not administrator, is able to browse catalog, and may do purchase.

The web application will be implemented using the Rails framework.

Functionalities of the system:

- Adminstrator has possibility to change items title, description, price, update items, add items, delete items, and change pictures online
- Functionality of search covers : search title, search price, and search description. All searches may be done from one level: search button. Any text could be search.
- Historical orders of guest are listed in form and printed when guest is logged in, and myAccont menu is chosen: => orders

Product Perspective

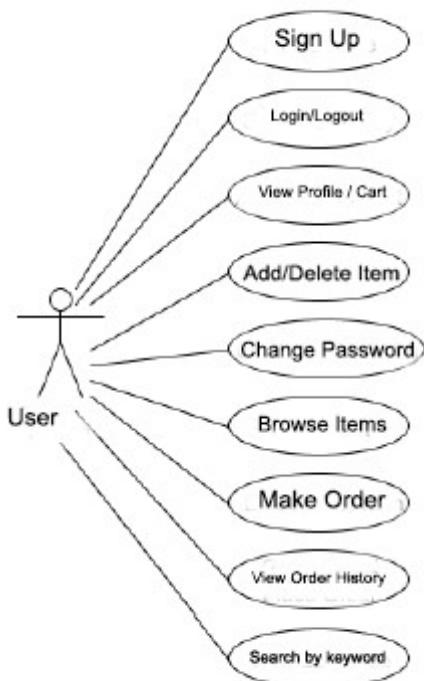
The online shopping-cart application is a web-based system developed in cloud IDE named Cloud9, which is an online code editor with a full Ubuntu workspace. It can be accessed using Google Chrome.

2. Access Control

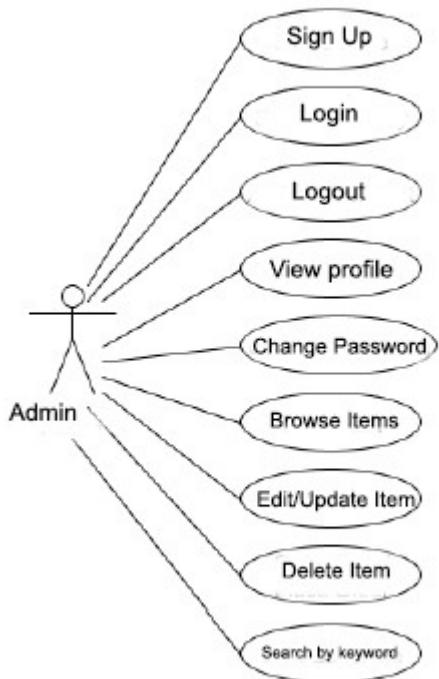
User Interface

The two interface types exist in the online shopping-cart application are as follows:

1. User Interface: Users are able to view the home page of the shopping-cart application, browse the different categories from catalogue, browse and after registration or login can add to acrt any number of items, look for description about each product, delete the items in the shopping cart, save the cart for later viewing, check out or continue shopping after adding the item to the cart, and check out the items by completing the required information in the order form. After shopping it can see the order history in orders. It is also provided to able to log out from the system or before that view the profile where it can change the password. It can also search by the user with any keywords for product in the search box, which is displayed constantly in the application pages.



2. Admin Interface: The administrator after login is able to view, edit and update the products (title, description and price), add or remove items from the main display. It is also possible to search by keywords in search box by the admin. It is provided to change password as User interface. He or she can also logout from the system.



Hardware requirements

The online shopping-cart application shall provide minimum hardware requirements . Any device with Internet explorer browser is useful.

Software requirements

This section lists the requirements that are needed to run the system efficiently. The operating system needed for the system to run efficiently, the interface to run the application, the driver for running Java web applications, the integrated development environment to develop the application, and the third-party tool used for editing purposes are as follows:

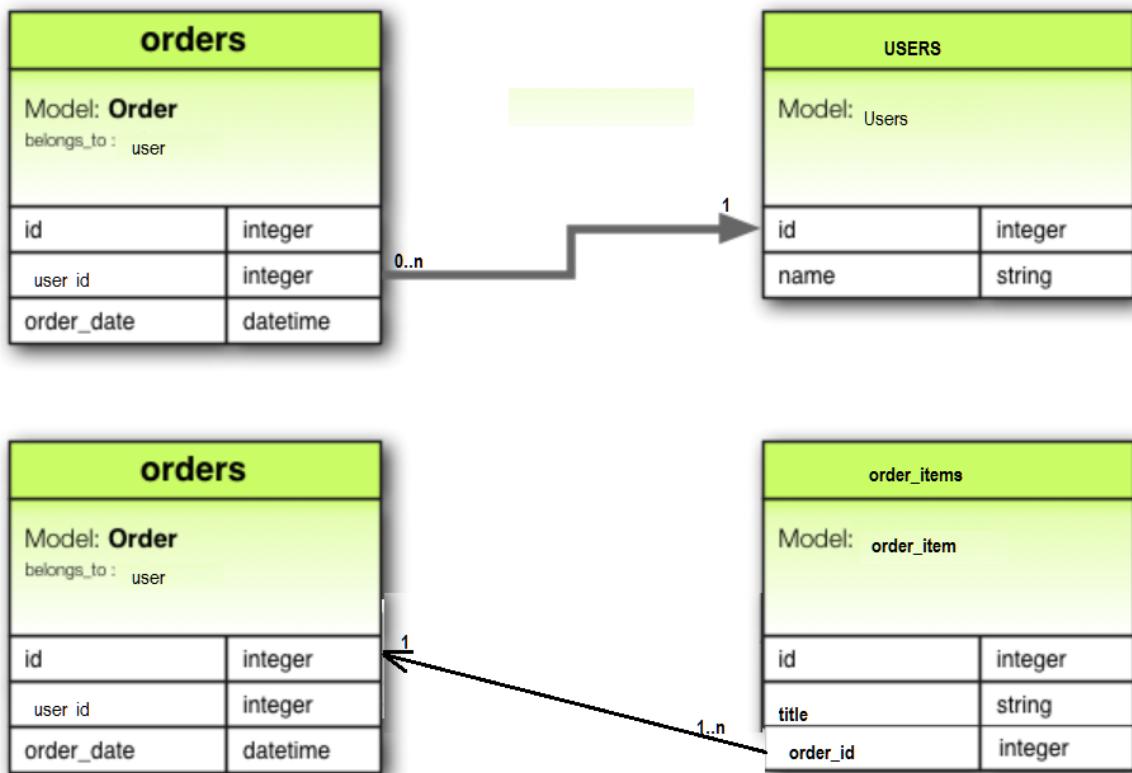
1. Operating System: Windows (Vista/Windows 10) or MAC OS
2. Web Brower: Internet Explorer (8.0 and above), Mozilla Firefox (3.0 and above), or Google Chrome, Opera
3. Drivers: Java Runtime Environment
4. Third-Party Tool: Bitbucket, Heroku

3. Model

The project includes following entities: user, item, order, order_item.

The used types of Associations in the project:

1. Belongs_to
2. has_many



Identification of entity users: id, name, email, password. Primary key is: id

Identification of entity item: id, title, description, price, image, image_url. Primary key: id.

Identification of entity orders: id, user_id, total_price, created_at. Primary key: id. Foreign key: user_id

Identification of order_items: id, order_id, title, description, unit_price, quantity, image, total_price. Primary key: id. Foreign key: order_id

Database in db folder in sqlite3 file:

DB Browser for SQLite - C:/Users/Nikolett/Desktop/development.sqlite3

File Edit View Help

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute SQL

Create Table Modify Table Delete Table

Name	Type	Schema
Tables (7)		
ar_internal_metadata		CREATE TABLE "ar_internal_metadata" ("key" varchar NOT NULL PRIMARY KEY, "value" varchar,
items		CREATE TABLE "items" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL, "title" varchar,
order_items		CREATE TABLE "order_items" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL, "title" :
orders		CREATE TABLE "orders" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL, "totalprice"
schema_migrations		CREATE TABLE "schema_migrations" ("version" varchar NOT NULL PRIMARY KEY)
sqlite_sequence		CREATE TABLE sqlite_sequence(name,seq)
users		CREATE TABLE "users" ("id" INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL, "name" varchar
Indices (5)		
index_order_items_on_order_id		CREATE INDEX "index_order_items_on_order_id" ON "order_items" ("order_id")
index_orders_on_user_id		CREATE INDEX "index_orders_on_user_id" ON "orders" ("user_id")
index_orders_on_user_id_and_created_at		CREATE INDEX "index_orders_on_user_id_and_created_at" ON "orders" ("user_id", "created_at")
sqlite_autoindex_ar_internal_metadata_1		
sqlite_autoindex_schema_migrations_1		
Views (0)		
Triggers (0)		

Database Structure Browse Data Edit Pragmas Execute SQL

Table: users New Record Delete Record

	id	name	email	created_at	updated_at	password_digest
1	6	jacekbwwa	jacekbwwa@interia.pl	2016-07-19 2...	2016-07-19 2...	\$2a\$10\$CXv5U2V/4MmtaSb3FNF/...
2	7	admin	admin@admin.com	2016-07-20 1...	2016-07-21 1...	\$2a\$10\$fwpmf62HU1SwrFpb02G...
3	9	check	check@check.com	2016-07-22 0...	2016-07-22 0...	\$2a\$10\$cSnixJGef0fCWFWcNdIJs...
4	10	Nikolett Palyi	nikolett.palyi@student.ncirl.ie	2016-07-22 1...	2016-07-22 1...	\$2a\$10\$pgXa8uQwhx6CyUTPIwb...
5	11	Niki Palyi	nipasign@gmail.com	2016-07-23 1...	2016-07-23 1...	\$2a\$10\$dQYinJcFB//ygRXyNvlvM...

Database Structure Browse Data Edit Pragmas Execute SQL

Table: orders New Record Delete Record

	id	totalprice	user_id	created_at	updated_at
1	4	200	6	2016-07-24 1...	2016-07-24 1...
2	5	100	11	2016-07-24 1...	2016-07-24 1...

Database Structure Browse Data Edit Pragmas Execute SQL

Table: **order_items**

New Record Delete Record

id	title	description	unitprice	quantity	image	totalprice	order_id	created_at	up
1	3 Gold Clad Watch , Lighter	Set comprises of a ...	100	1	/uploads/item...	100	4	2016-07-24 1...	2016
2	4 Lexington Gold-Tone Watch	Lexington watch,th...	100	1	/uploads/item...	100	4	2016-07-24 1...	2016
3	5 Gold Clad Watch , Lighter	Set comprises of a ...	100	1	/uploads/item...	100	5	2016-07-24 1...	2016

Database Structure Browse Data Edit Pragmas Execute SQL

Table: **items**

New Record Delete Record

id	title	description	price	image_ur	created_at	updated_at	picture	image
1	49 Gold Filled Necklace	Gold Filled Necklace...	300	NULL	2016-07-22 0...	2016-07-24 0...	NULL	necklace_who...
2	48 Lexington Gold-Tone Watch	Lexington watch,th...	100	NULL	2016-07-22 0...	2016-07-24 0...	NULL	hw_415664.jpg
3	47 Mens-14kt-emerald-diamon...	Mens-14kt-emerald-...	9000	NULL	2016-07-22 0...	2016-07-24 0...	NULL	b01-251000-1...
4	46 Tara golden Elegant engag...	.50ct diamond Tara ...	100	NULL	2016-07-22 0...	2016-07-24 0...	NULL	image6s.jpg
5	45 Golden Ballpoint Pen and C...	stationery school pe...	100	NULL	2016-07-22 0...	2016-07-24 0...	NULL	golden-Balpo...
6	44 Cabernet Wine Set	Cabernet Wine Set	200	NULL	2016-07-22 0...	2016-07-24 0...	NULL	Cabernet-Win...
7	43 Bracelets & Bangles Vintage...	Gold Plated Owl Bra...	100	NULL	2016-07-22 0...	2016-07-24 0...	NULL	bracelet-for-w...
8	42 Mens 10k Yellow Gold Diam...	Mens 10k Yellow Go...	100	NULL	2016-07-22 0...	2016-07-24 0...	NULL	W8AAaT6w.jpg

Assets – files in directories: there are included jpg and gif files, and CSS stylesheet files.

- assets/images,
- assets/javascripts,
- assets/stylesheets

Models- files in directories:

application_record.rb:

```

1 class ApplicationRecord < ActiveRecord::Base
2   self.abstract_class = true
3 end
4

```

item.rb:

```
1 class Item < ActiveRecord
2 mount_uploader :image, ImageUploader
3 #validates :content, presence: true, length: { maximum: 140 }
4
5 def self.search(query)
6   where("title like ? OR description like ? OR price like ?", "%#{query}%", "%#{query}%", "%#{query}%")
7
8 end
9
10 end
11 |
```

order_item.rb:

```
class User < ActiveRecord
  has_many :orders, dependent: :destroy

  before_save { self.email = email.downcase }
  validates :name, presence: true, length: { maximum: 50 }
  VALID_EMAIL_REGEX = /\A[\w+\.-]+@[a-z\d\.-]+\.[a-z]+\z/i
  validates :email, presence: true, length: { maximum: 255 },
    format: { with: VALID_EMAIL_REGEX },
    uniqueness: { case_sensitive: false }
  has_secure_password
  validates :password, presence: true, length: { minimum: 6 }

  # Returns the hash digest of the given string.
  def User.digest(string)
    cost = ActiveModel::SecurePassword.min_cost ? BCrypt::Engine::MIN_COST :
                                                 BCrypt::Engine.cost
    BCrypt::Password.create(string, cost: cost)
  end
end
```

user.rb:

```
class User < ApplicationRecord
  has_many :orders, dependent: :destroy

  before_save { self.email = email.downcase }
  validates :name, presence: true, length: { maximum: 50 }
  VALID_EMAIL_REGEX = /\A[\w+\-\.]+\@[a-z\d\-\_]+\.[a-z]+\z/i
  validates :email, presence: true, length: { maximum: 255 },
    format: { with: VALID_EMAIL_REGEX },
    uniqueness: { case_sensitive: false }
  has_secure_password
  validates :password, presence: true, length: { minimum: 6 }

  # Returns the hash digest of the given string.
  def User.digest(string)
    cost = ActiveModel::SecurePassword.min_cost ? BCrypt::Engine::MIN_COST :
    BCrypt::Engine.cost
    BCrypt::Password.create(string, cost: cost)
  end
end
```

In the head of the mode there are relations and description, like below:

- class Item < ApplicationRecord => mount_uploader :image, ImageUploader
- class Order < ApplicationRecord => belongs_to :user, has_many :order_items, dependent: :destroy
validates :user_id, presence: true

Controllers- files in directories:

application_controller.rb:

```
1  class ApplicationController < ActionController::Base
2    # Prevent CSRF attacks by raising an exception.
3    # For APIs, you may want to use :null_session instead.
4    protect_from_forgery with: :exception
5    include SessionsHelper
6  end|
```

cart_controller.rb:

```
class CartController < ApplicationController
  before_action :logged_in_user

  def add
    user = User.find_by(email: params[:session][:email].downcase)
    if session[:user_id] == -1
      #flash[:notice] = "Login required"
    else
      id = params[:id]
      cart = session[:cart] ||= {}
      cart[id] = (cart[id] || 0) + 1
    end
    redirect_to :action => :index
  end

  def index
    @cart = session[:cart] || {}
  end

  def change
    cart = session[:cart]
    id = params[:id];
    quantity = params[:quantity].to_i
    if cart and cart[id]
      unless quantity <= 0
        cart[id] = quantity
      else
        cart.delete id
      end
    end
    redirect_to :action => :index
  end

  def delete_cartitem
    id = params[:id]
    cart = session[:cart] ||= {}
    cart.delete id
    redirect_to :action => :index
  end
```

items_controller.rb:

```
class Item < ApplicationRecord
  mount_uploader :image, ImageUploader
  validates :content, presence: true, length: { maximum: 140 }

  def self.search(query)
    where("title like ? OR description like ? OR price like ?" , "%#{query}%", "%#{query}%", "%#{query}%")
  end
end
```

order_items_controller.rb:

```
1  class OrderItemsController < ApplicationController
2
3      #def create
4      #    @order = current_order
5      #    @order_item = @order.order_items.new(order_item_params)
6      #    @order.save
7      #    session[:order_id] = @order.id
8      #end
9
10     private
11
12     def order_item_params
13         params.require(:order_item).permit(:quantity, :title)
14     end
15
16 end
17
```

orders_controller.rb:

```
1  class OrdersController < ApplicationController
2
3     before_action :logged_in_user, only: [:create, :edit]
4
5     def new
6         @order = current_user.orders.new
7     end
8
9
10    def create
11        @order = current_user.orders.new(params[:order])
12        @order.totalprice = session[:cart_total]
13
14        @cart = session[:cart]
15        @cart.each do |id, quantity|
16            @item = Item.find_by_id(id)
17            @orderitem = @order.order_items.new((params[:order_item]))
18            @orderitem.title = @item.title
19            @orderitem.description = @item.description
20            @orderitem.quantity = quantity
21            @orderitem.unitprice = @item.price
22            @orderitem.image = @item.image
23            @orderitem.totalprice = @item.price * quantity
24        end
25
26        if @order.save
27            flash[:success] = "Order created, thank you!"
28            clear_cart
29            redirect_to '/cart'
30        else
31            render '/cart'
32        end
33    end
34
35    def edit
36    end
37
38    def show
39        @user = current_user
40        @orders = @user.orders.paginate(page: params[:page])
41    end
42
43    def showOrderItems
44        @currentOrder = Order.find(params[:id])
45    end
46
47    private
48
49    def order_params
50        params.require(:order).permit(:totalprice)
51    end
52
53
54
55    end
56
```

sessions_controller.rb:

```
if user && user.authenticate(params[:session][:password])
  log_in user
  if user.email=='admin@admin.com'
    session[:login] = 1
  else
    session[:login] = nil
  end

  clear_cart
  session[:user_id] = user.id
  redirect_to items_path
else
  flash.now[:danger] = 'Invalid email/password combination'
  render 'new'
end
end

def destroy
end
end
```

site_controller.rb:

```
1 class SiteController < ApplicationController
2   def about
3   end
4
5   def contact
6   end
7 end
8
```

users_controller.rb:

```
1 class UsersController < ApplicationController
2
3   def show
4     # @user = User.find(params[:id])
5   end
6
7   def new
8     @user = User.new
9   end
10
11  # GET /users/1/edit
12  def edit
13    @user = current_user
14  end
15
16  def update
17    @user = current_user
18    if @user.update_attributes(user_params)
19      # Handle a successful update.
20      #flash[:notice] = "successful password changed"
21      flash[:success] = "successful password changed"
22
23      #format.html { redirect_to @user, notice: 'password was successfully updated.' }
24      render :show
25    else
26      render 'edit'
27    end
28  end
29
30  def create
31    @user = User.new(user_params)
32    if @user.save
33      # Handle a successful save.
34      redirect_to login_path
35    else
36      render 'new'
37    end
38  end
39
40  #def showOrders
41  #  @user = User.find(params[:id])
42  #  @orders = @user.orders.paginate(page: params[:page])
43  #end
44
45  def logout
46    session[:login] = nil
47    session[:cart] = nil
48    clear_cart
49    session[:user_id] = -1
50    @current_user = nil
51    #flash[:notice] = "User logged out, cart reset."
52    redirect_to :controller => :items
53  end
54
55  private
56
57  def user_params
58    params.require(:user).permit(:name, :email, :password,
59                                :password_confirmation)
60  end
61
62
63  end
```

Views- files in directories: There are embedded HTML codes:

In cart folder:

- _cart_row.html.erb
- index.html.erb

In items folder:

- _from.html.erb
- edit.html.erb
- index.html.erb
- new.html.erb
- show.html.erb

Routes list:

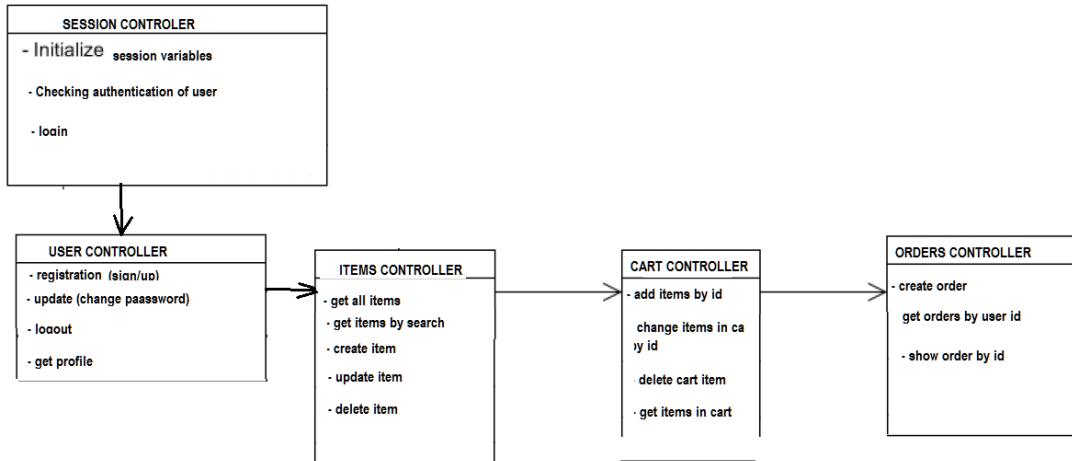
Routes.rb file:

```
1  Rails.application.routes.draw do
2
3    get 'sessions/new'
4
5    get 'users/new'
6
7    get '/about' => 'site#about'
8    get '/contact' => 'site#contact'
9
10   get '/logout' => 'users#logout'
11   get '/cart' => 'cart#index'
12   get '/cart/:id' => 'cart#add'
13
14   get '/cartdel/:id' => 'cart#delete_cartitem'
15
16   get '/profil' => 'users#show'
17   get '/order/:total' => 'orders#create'
18
19
20   get '/login', to: 'sessions#new'
21   post '/login', to: 'sessions#create'
22   delete '/logout', to: 'sessions#destroy'
23
24   get '/signup', to: 'users#new'
25   post '/signup', to: 'users#create'
26
27   get '/orderview/:id' => 'orders#showOrderItems'|
28
29
30   resources :items
31   resources :orders
32   resources :users
33
34
35
36   # The priority is based upon order of creation: first crea
37   # See how all your routes lay out with "rake routes".
38
39   # You can have the root of your site routed with "root"
40   #root 'items#index'
41   root 'site#welcome'
42
```

Gemfile:

```
1 source 'https://rubygems.org'
2 gem 'rails', '>= 5.0.0.rc2', '< 5.1'
3 gem 'puma', '~> 3.0'
4 #gem 'sass-rails',    '5.0.4'
5 gem 'sprockets',      github: "rails/sprockets"
6 gem 'sprockets-rails', github: "rails/sprockets-rails"
7 gem 'sass-rails',      github: "rails/sass-rails"
8 gem 'uglifier',        '3.0.0'
9 gem 'coffee-rails',   '4.1.1'
10 gem 'jquery-rails',  '4.1.1'
11 gem 'turbolinks'
12 gem 'jbuilder',       '2.4.1'
13 gem 'sdoc'
14 gem 'bcrypt'
15 gem 'faker'
16 gem 'mini_magick'
17 gem 'fog'
18 gem 'will_paginate'
19 gem 'bootstrap-will_paginate'
20 gem 'carrierwave'
21 gem 'bootstrap-sass'
22 group :development, :test do
23   # Use sqlite3 as the database for Active Record
24   gem 'byebug'
25   gem 'sqlite3'
26 end
27 gem 'pg', group: :production
28 group :development do
29   gem 'web-console',          '3.1.1'
30   gem 'listen',              '3.0.8'
31   gem 'spring',              '1.7.2'
32   gem 'spring-watcher-listen', '2.0.0'
33 end
34 gem 'tzinfo-data', platforms: [:mingw, :mswin, :x64_mingw, :jruby]
35
```

4. Key Users Flows



Session variables:

- Login : login=1 means administrator level, login=nil means standard user
- Cart_total : the sum of price of all items in cart . It is used for creating orders
- Cart: cart object
- User_id: id logged user

Session variables are cleaned during logout.

Flash variables:

- Variables used to inform user,
 - o "success" when password is changed or order created
 - o "danger" when login is incorrect

5. Access control

There are two levels of access to the system:

- Admin user
- Normal user

Administrator has the ability to change item titles, descriptions, prices, update items, add items, delete items, change pictures online, login, logout, change password, view_profile, search_items.

User has the ability to login, logout, change password, view_profile, search_items, browse items, add item to cart, delete item from cart, create order, view order history.

The access control uses credentials: email and password.

The security of the password is kept by bcrypt.

6. Third Party Gems

Additional gem files are listed below:

- gem 'mini_magick' - we use for uploader of images and resizing images using the image manipulation program ImageMagick
- gem 'bcrypt' – we sue for security: encoding password
- gem 'bootstrap-sass' – for styling views

```

1 source 'https://rubygems.org'
2 gem 'rails', '>= 5.0.0.rc2', '< 5.1'
3 gem 'puma', '~> 3.0'
4 #gem 'sass-rails',    '5.0.4'
5 gem 'sprockets',      github: "rails/sprockets"
6 gem 'sprockets-rails', github: "rails/sprockets-rails"
7 gem 'sass-rails',      github: "rails/sass-rails"
8 gem 'uglifier',        '3.0.0'
9 gem 'coffee-rails',   '4.1.1'
10 gem 'jquery-rails',  '4.1.1'
11 gem 'turbolinks'
12 gem 'jbuilder',       '2.4.1'
13 gem 'sdoc'
14 gem 'bcrypt'
15 gem 'faker'
16 gem 'mini_magick'
17 gem 'fog'
18 gem 'will_paginate'
19 gem 'bootstrap-will_paginate'
20 gem 'carrierwave'
21 gem 'bootstrap-sass'
22 group :development, :test do
23   # Use sqlite3 as the database for Active Record
24   gem 'byebug'
25   gem 'sqlite3'
26 end
27 gem 'pg', group: :production
28 group :development do
29   gem 'web-console',          '3.1.1'
30   gem 'listen',              '3.0.8'
31   gem 'spring',              '1.7.2'
32   gem 'spring-watcher-listen', '2.0.0'
33 end
34 gem 'tzinfo-data', platforms: [:mingw, :mswin, :x64_mingw, :jruby]
35

```

7. REFERENCES

<http://guides.rubyonrails.org>

Beginning Ruby on Rails E-Commerce: From Novice to Professional Copyright © 2006 by Christian Hellsten and Jarkko Laine

Ruby on Rails® Bible, Published by Wiley Publishing, Inc., www.wiley.com, Copyright © 2008 by Wiley Publishing, Inc., Indianapolis, Indiana

Ruby on Rails Tutorial: Learn Web Development with Rails. Copyright © 2016 by Michael Hartl. Last updated 2016/07/18 15:41:28 PT.

Rails Solutions: Ruby on Rails Made Easy Copyright © 2007 by Justin Williams

Crafting Rails applications Copyright © 2013 by Jose Valim, The Pragmatic Programmers, LLC. All rights reserved.

8. WORK BREAKDOWN

The team members have worked on every task of project equal in equal measure.

Each person from the team was involved in the same tasks

- in project planning,
- creation,
- implementation,
- commissioning,
- solving issues,
- creating documentation,
- and other staff.

The participation of each member of the project team in this project is equal 50% (50/50).

9. Project views

GIFTS4MM SHOPPING CENTRE

Products About Contact Us View Cart Login

Nobody is logged in

Welcome in our gift shop

Please login or sign up

Search
Search Items

Special Offer


New Product


© JACEK BYZDRA and NIKOLETT PALYI ™ 2016



Nobody is logged in

Catalog



Gold Clad Watch , Lighter

Set comprises of a James Bond 007 Cigarette Lighter (Zippo Style) Also included is Half Hunter Pocket Pure 24k Gold Plated Watch operated by Quartz with attractive pocket chain

€100.00

[Add to Cart](#)

Search

 Search Items

Special Offer



Hombres Chicos Correa Cuero Deporte Watch

Item Type:NecklacesFine or Fashion:FashionPendant Size:NO PendantStyle:RomanticNecklace Type:Chains NecklacesGender:UnisexMaterial:NoneChain Type:Link ChainLength:18-36inchShape\pattern:FigureModel Number:LGNM76Material :Gold Filled + MetalMeasurement:Width:5/8mm Length:18-36inch

€80.00

[Add to Cart](#)

New Product



Stone Comfort Fit Wedding Band

14k gold wedding band showcases 7 illuminating brilliant round diamonds and blue sapphires set in a channel set comfort fit ring band proving ultimate comfort to wearers.

€1,100.00

[Add to Cart](#)



Nobody is logged in

About the Company

GIFT4MM is an international company that is evolving rapidly.

But how did GIFT4MM become what it is today?

On 4 December, 1924, Martien Jonkers was born in Helmond. On his 21st birthday Martien started his own business.

With Jonkers' Handelsonderneming (commercial enterprise) he laid the foundation of GIFT4MM. He was one of the first people to introduce pens imprinted with advertisements to the Dutch (and European) market.

His ambitions went beyond the Dutch borders and in 1961 GIFT4MM was founded, which is short for International Gift Organisation. GIFT4MM focused on selling promotional gifts to companies, foundations, institutions and the government.

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Online: www.gift4mm.ie
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Gold Clad Watch , Lighter

Set comprises of a James Bond 007 Cigarette Lighter (Zippo Style) Also included is Half Hunter Pocket Pure 24k Gold Plated Watch operated by Quartz with attractive pocket chain

€100.00

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**Gold Clad Watch , Lighter**

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Gold Clad Watch , Lighter

Set comprises of a James Bond 007 Cigarette Lighter (Zippo Style) Also included is Half Hunter Pocket Pure 24k Gold Plated Watch operated by Quartz with attractive pocket chain

Unit price: €100.00

Quantity: 1

Total price: €100.00



Lexington Gold-Tone Watch

Lexington watch, the beveled gold-tone stainless steel bezel and bracelet strap provide tactile texture

Unit price: €100.00

Quantity: 1

Total price: €100.00

Total: €200.00

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Unit price: €100.00

Quantity: 2

Total price: €200.00

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Hombres Chicos Correa Cuero Deporte Watch

Item Type:NecklacesFine or Fashion:FashionPendant Size:NO PendantStyle:RomanticNecklace Type:Chains NecklacesGender:UnisexMaterial:N Type:Link ChainLength:18-36inchShape\pattern:FigureModel Number:LGNM76Material :Gold Filled + MetalMeasurement:Width:5/7/8mr Length:18-36inch

Unit price: €80.00

Quantity: 1

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Total price: €200.00

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Gold Clad Watch , Lighter

Set comprises of a James Bond 007 Cigarette Lighter (Zippo Style) Also included is Half Hunter Pocket Pure 24k Gold Plated Watch operated by Quartz with attractive pocket chain

Unit price: €100.00

Quantity: 1

Total price: €100.00



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Unit price: €100.00

Quantity: 1

Total price: €100.00

Total: €200.00

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Hombres Chicos Correa Cuero Deporte Watch

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Price

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