

Frameworks Modernos para desarrollo Ágil

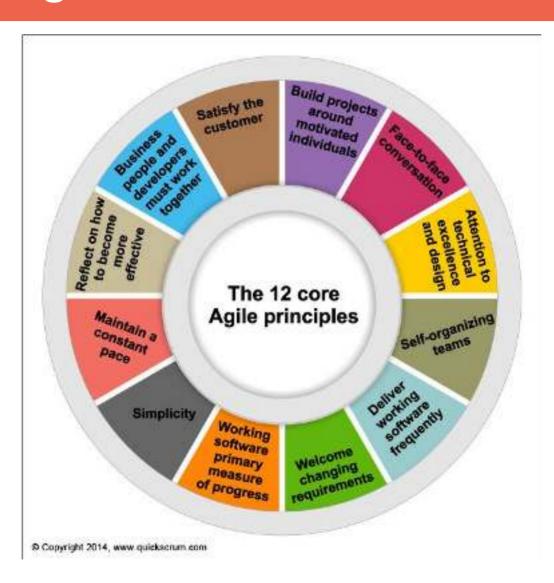
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Agenda

- Agile Development: En que consiste
- Metodologías ágiles
- Frameworks
- Frameworks FrontEnd
- Frameworks BackEnd
- MVC
- Laravel Como ejemplo
- Otras Herramientas
- Conclusiones

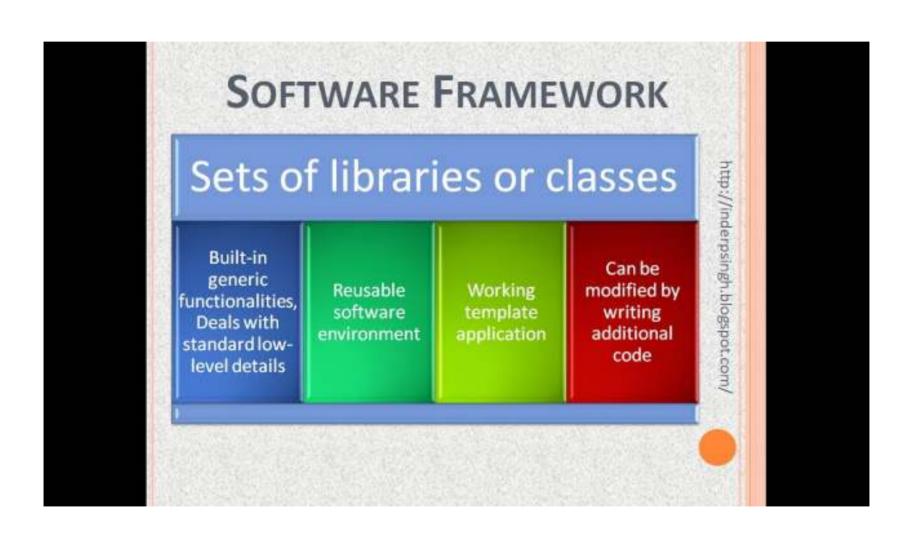
Desarrollo Ágil



Scrum



Frameworks



FrontEnd





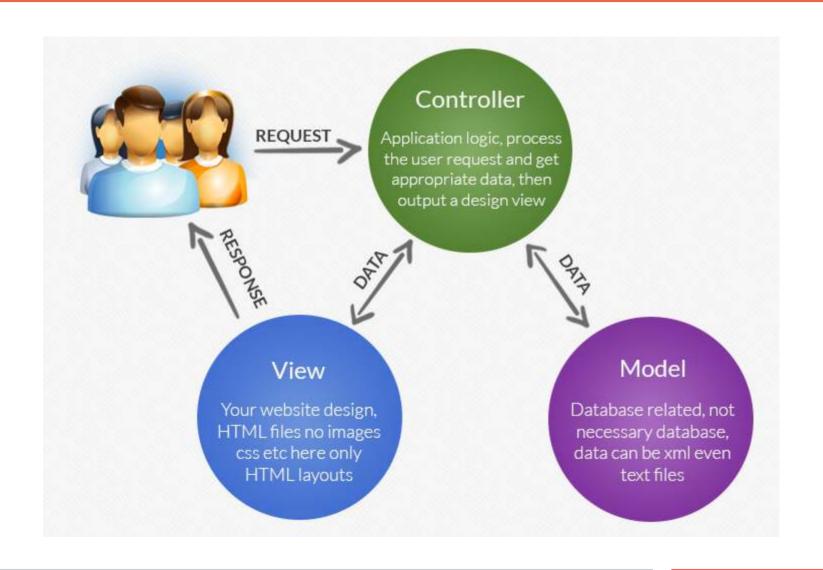




BackEnd

FrameWork	Lenguaje / Herramienta	
MVC 4,5	DotNet: C# / VB	.NET MVC 5
Rails	Ruby	RAILS
Django	Python	django
Spring	Java	spring welvotal.
Laravel	PHP	laravel

MVC en 10 minutos



Ejemplo MVC

1	2	0
0	1	0
0	0	2

Modelo





Usuario



Controlador

No MVC

```
#include <stdio.h>
void show() {
  int i;
                                          int main()
  for (i=0;i<9;i++)
                                            int board[9]=\{0,0,0,0,0,0,0,0,0,0,0\};
    if (m.get(i)==0) printf(" ");
                                            int turn=0;
    if (m.get(i)==1) printf("X");
                                            int i,pos;
    if (m.get(i)==2) printf("0");
    if (i%3==0) printf("\n");
                                            for (int i=0; i<9; i++)
                                               printf("Play:");
                                               scanf("%d",&pos);
                                               board[pos]=1+(i\%2);
                                               show(board);
```

Modelo

```
public class TTTModel {
   int board[9];
   int turn;
public:
   void play(int pos)
      if (turn%2==0)
          board[pos]=1;
      else
          borad[pos]=1;
     turn++;
   int get(int pos)
      return board[pos];
}
```

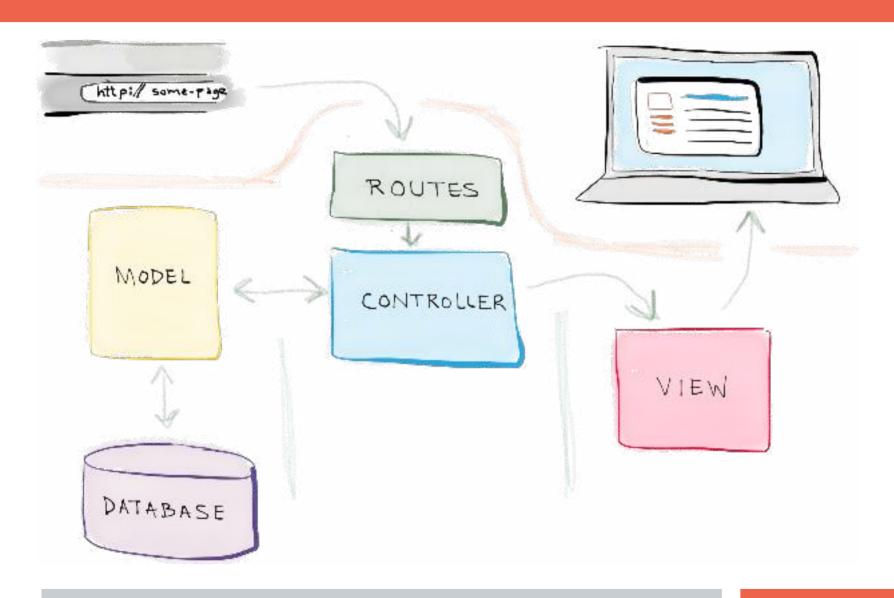
Vista

```
public class TTTView {
   public:
   void show(TTTModel m)
   {
      for (int i=0; i<9; i++)
          if (m.get(i)==0) cout<<"_";</pre>
          if (m.get(i)==1) cout<<"X";</pre>
          if (m.get(i)==2) cout<<"0";</pre>
          if (i%3==0) cout<<endl;
  int read()
     int pos;
     cout<<"Play:";
     cin>>pos;
     return pos;
```

Controlador

```
public class TTTController
    TTTModel model;
    TTTView view;
    public:
      TTTController()
        model=new TTTModel();
        view=new TTTView();
      void play()
         int i,pos;
         for (i=0;i<9;i++)
            view.show();
            pos=view.read();
            model.play(pos);
}
```

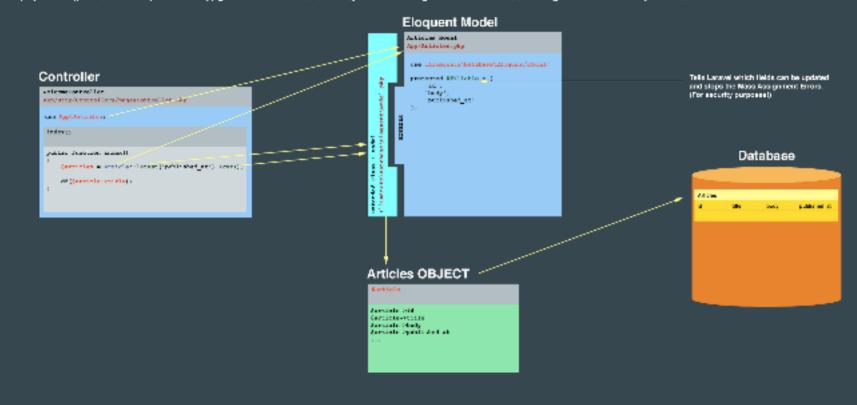
MVC En Web



Laravel Como Ejemplo

Eloquent ORM

The Model.php class (part of the elequent library) gives us a much easier way of interacting with the Database through the methods it provides.



Laravel Model

```
Brand.php
                                                                               hasMany
                                                                                         belongsTo
                                                                    products()
class Brand extends Model
   use SoftDeletes:
    100
     * The attributes that should be mutated to dates.
     * Gvar array
    protected Sdates = ['deleted at']:
    7 * *
     * The attributes that are mass assignable.
     · @var array
    protected Sfillable = I
       name "
       'description'.
    100
    188
     * Get the products for the brand.
    public function products()
       return Sthis->hasMany("Larashop\Models\Product", "brand_id", "id"):
```

Product.php

()brand

categories()

Category.php

products[]

belongsTofMeny

belongsToMany

sproduct categories?

Laravel: Model

<?php

```
namespace App;
use Illuminate\Database\Eloquent\Model;
class <u>TipoEstudio</u> extends <u>Model</u>
{
    //
   protected $table = "tipo_estudio";
   public $timestamps=false;
   protected $primaryKey = 'tipo_estudio'; // or null
   public $incrementing = false;
   protected $fillable = ['tipo estudio', 'descripcion'];
```

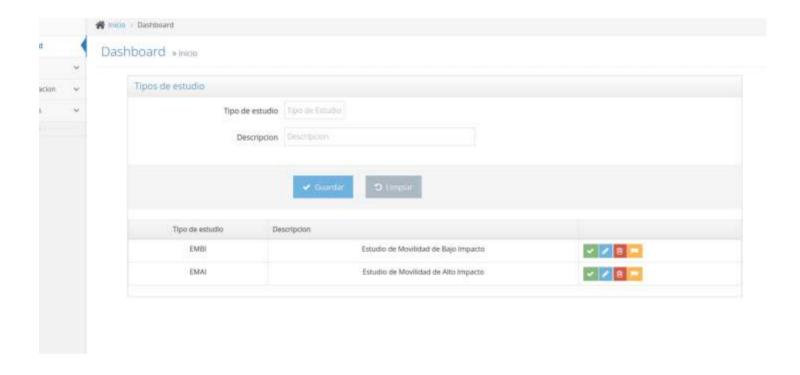
Laravel View

```
<thead>
 Tipo de Estudio
 Descripcion
</thead>
@if($tiposestudio->count())
 @foreach($tiposestudio as $t)
  {{$t->tipo estudio}}
  {{$t->descripcion}}
 @endforeach
 @else
No se han encontrado datos !!
  @endif
```

Laravel Controller

```
namespace App\Http\Controllers;
use App\TipoEstudio;
use Illuminate\Http\Request;
class <u>TipoEstudioController</u> extends <u>Controller</u>
    /**
     * Display a listing of the resource.
     * @return \Illuminate\Http\Response
    public function index()
      $tiposestudio = TipoEstudio::orderBy('tipo estudio','ASC')->paginate(5);
      return view('TipoEstudio.index',compact('tiposestudio'));
    }
```

Resultado



Otras Herramientas

- Scrum como metodología
- Herramientas para comunicación efectiva: Kanboard, Wekan
- Historias de usuario como herramienta de análisis
- Control de versiones: Git, SVN
- Un buen sistema operativo: Linux
- Un buen motor de bases de datos: Postgres
- Diseño de interfaces (Web, Escritorio) : Bootstrap, Foundation

Conclusiones

- Muchas alternativas
- Desarrollo ágil = adaptable
- Desarrollo colaborativo
- Control de versiones
- Más seguridad en las aplicaciones
- Aprovechar el framework

Preguntas - Referencias

https://laravel.com/

https://www.djangoproject.com/

https://spring.io/

https://rubyonrails.org/

https://letsclearitup.com.ua/books/2017/

laravel_5_cookbook.pdf