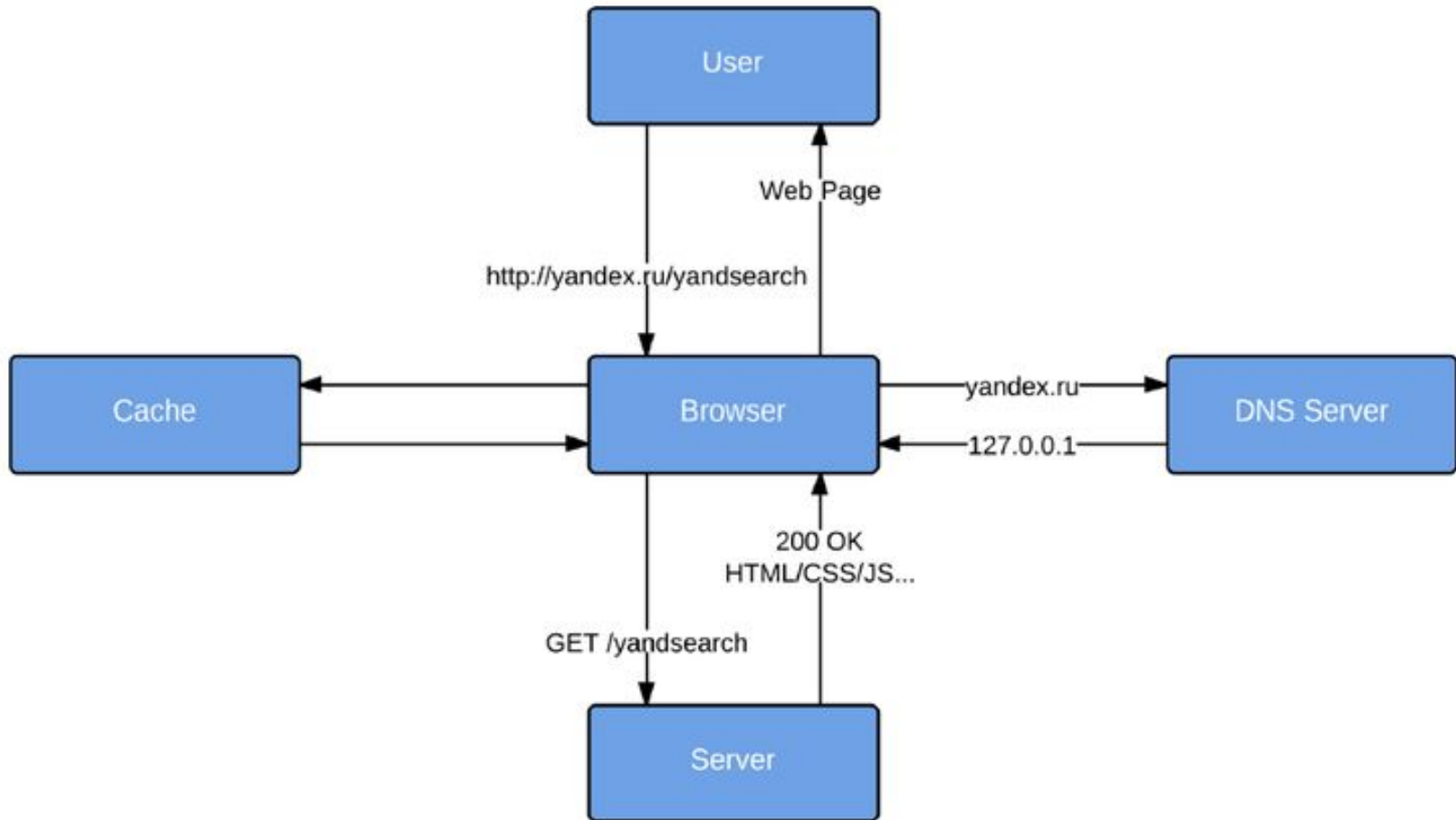


# Школа «Молодого программиста»

Разновидности Http-запросов.  
Роутинг в  
приложении ASP.NET MVC

# Принцип работы браузера



# Что такое HTTP?

Протокол передачи данных. Раньше использовался только для передачи Html-страниц, теперь для передачи произвольных данных

# Структура запроса HTTP

× Headers Preview Response Cookies Timing

## ▼ General

Request URL: `https://dom.gosuslugi.ru/nsi/api/rest/services/nsi/classifiers/oktmo/region/roots`

Request Method: POST

Status Code: ● 200 OK

Remote Address: 217.107.108.114:443

## ▼ Response Headers [view source](#)

Access-Control-Allow-Headers: Content-Type

Access-Control-Allow-Methods: POST, GET, PUT, OPTIONS, DELETE

Access-Control-Allow-Origin: \*

Access-Control-Max-Age: 3600

Connection: keep-alive

Content-Security-Policy: frame-ancestors 'self' http://webvisor.com https://webvisor.com

Content-Type: application/json

Date: Fri, 11 Nov 2016 17:50:32 GMT

Server: nginx

Set-Cookie: JSESSIONID=7k+mTdR5XqR1Hj5DahHSxtv9; Path=/nsi; HttpOnly

Transfer-Encoding: chunked

X-Content-Type-Options: nosniff

X-Frame-Options: SAMEORIGIN

X-XSS-Protection: 1; mode=block



## ▶ Request Headers (15)

### ▼ Request Payload [view source](#)

```
▼ {regionGuid: "0af05e8b-21ff-4217-9a07-14d47ee04830"}  
  regionGuid: "0af05e8b-21ff-4217-9a07-14d47ee04830"
```

# Заголовки ответа HTTP

× Headers Preview Response Cookies Timing

## ▶ General

## ▶ Response Headers (14)

### ▼ Request Headers [view source](#)

**Accept:** application/json; charset=utf-8

**Accept-Encoding:** gzip, deflate, br

**Accept-Language:** ru-RU,ru;q=0.8,en-US;q=0.6,en;q=0.4

**Connection:** keep-alive

**Content-Length:** 53

**Content-Type:** application/json;charset=UTF-8

**Cookie:** JSESSIONID=wRw1SQ32SazgNTP+OhRK6Dhe; \_ym\_uid=1460294347679334168; suimSessionGuid=b0b1e854-2f84-41d1-9b31-419d7b13067478886635.1478886635.; \_pk\_ses.44.aaca=\*; route=a49c4f6cad20abfabeb41010de906fea; GEO\_TARGETING="{\"geoTargetingRegion\":{\"l,\"actual\":true,\"lastUpdateDate\":null,\"createDate\":null,\"aoGuid\": \"248d8071-06e1-425e-a1cf-d1ff4c4a14a8\", \"aoLevel\"me\": \"\", \"parentGuid\":null,\"oktmo\":null,\"regionCode\": \"10\", \"autoCode\": \"0\", \"areaCode\": \"000\", \"cityC\"xtrCode\": \"0000\", \"sextCode\": \"000\", \"updateDate\":null,\"isAddedManually\":null,\"onApproval\":null,\"fiasAddrobjGuid\"

**Host:** dom.gosuslugi.ru

**Origin:** https://dom.gosuslugi.ru

**Referer:** https://dom.gosuslugi.ru/

**Request-GUID:** 45e3502a-74d5-44a3-8c7a-87f5d536ac0a

**Session-GUID:** b0b1e854-2f84-41d1-9b31-419d7b130673

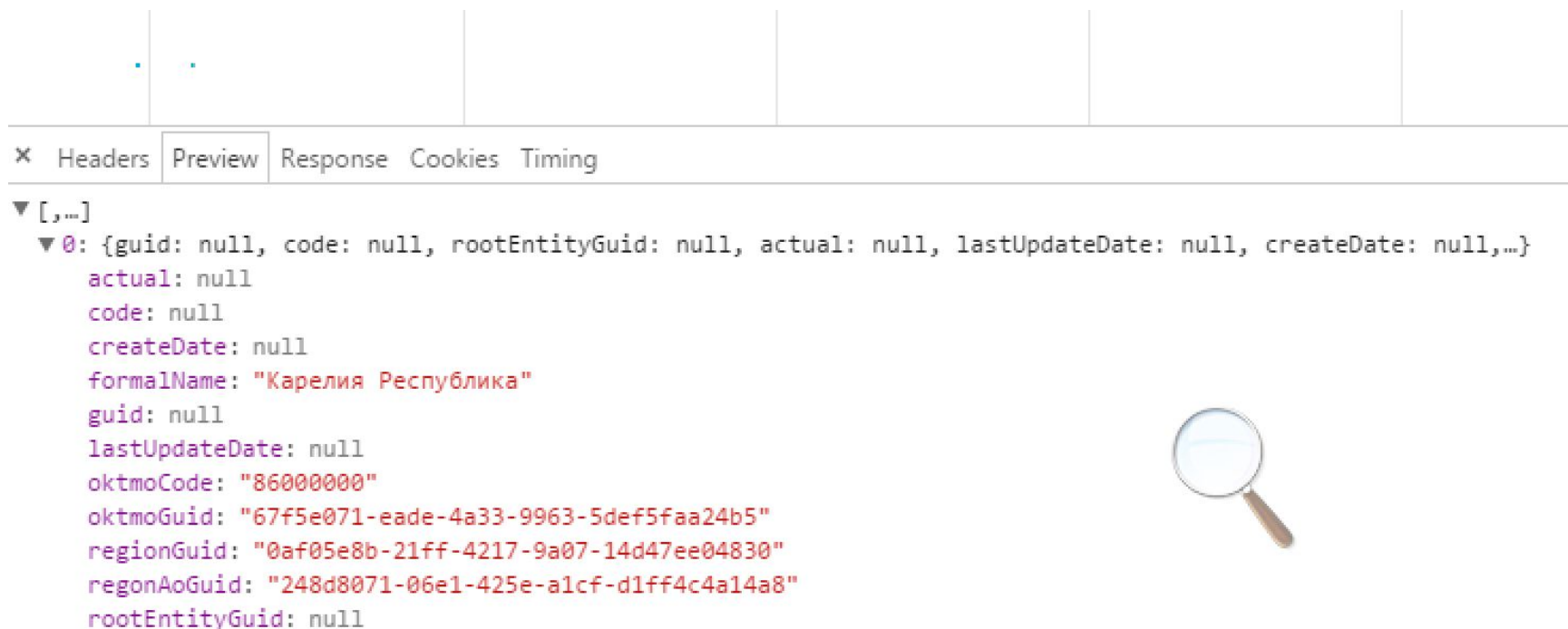
**State-GUID:** /main

**User-Agent:** Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.71 Safari/537.36

**X-Compress:** null

## ▶ Request Payload


# Тело ответа HTTP



× Headers Preview Response Cookies Timing

▼ [,...]

```
▼ 0: {guid: null, code: null, rootEntityGuid: null, actual: null, lastUpdateDate: null, createDate: null,...}
  actual: null
  code: null
  createDate: null
  formalName: "Карелия Республика"
  guid: null
  lastUpdateDate: null
  oktmoCode: "86000000"
  oktmoGuid: "67f5e071-eade-4a33-9963-5def5faa24b5"
  regionGuid: "0af05e8b-21ff-4217-9a07-14d47ee04830"
  regionAoGuid: "248d8071-06e1-425e-a1cf-d1ff4c4a14a8"
  rootEntityGuid: null
```



# Основные методы

- GET
- POST
- PUT
- DELETE

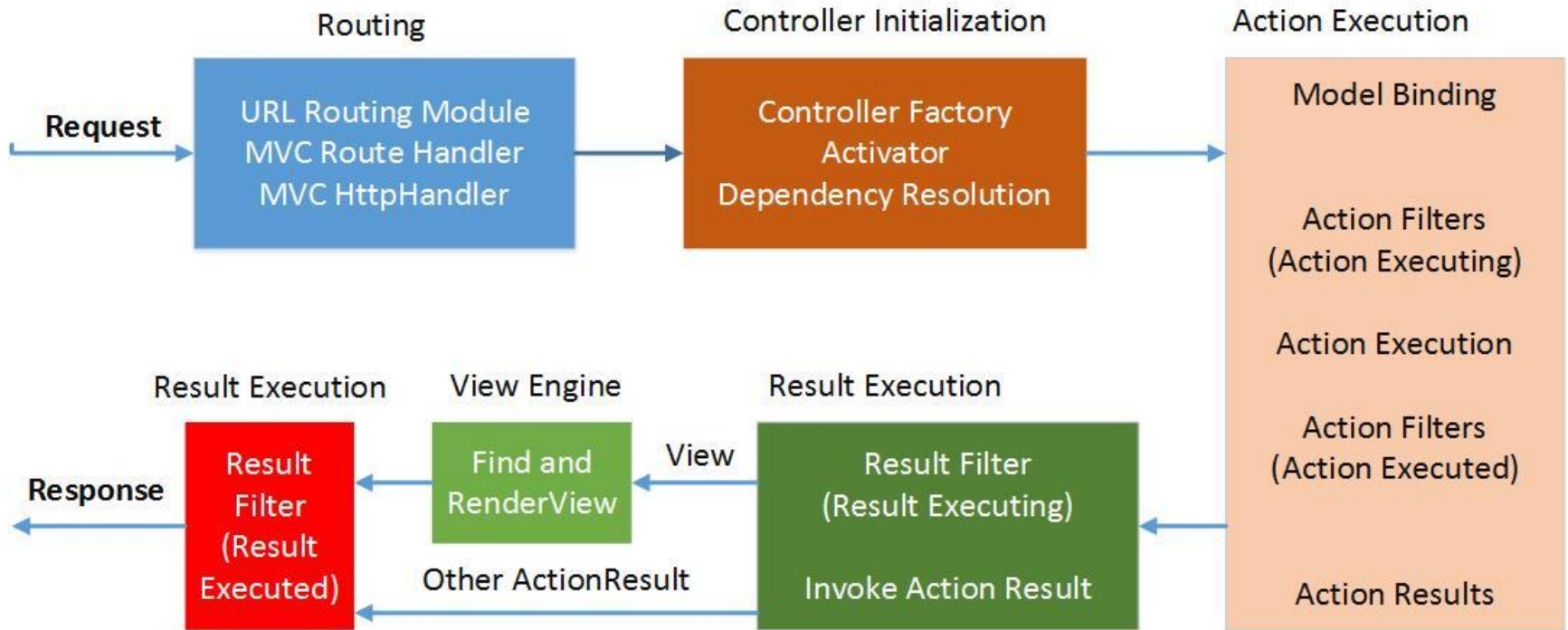
# Основные коды

- 2xx - успешное принятие и обработка запроса клиента
- 4xx - Указание ошибок со стороны клиента
- 5xx - Информирование о случаях неудачного выполнения операции по вине сервера.



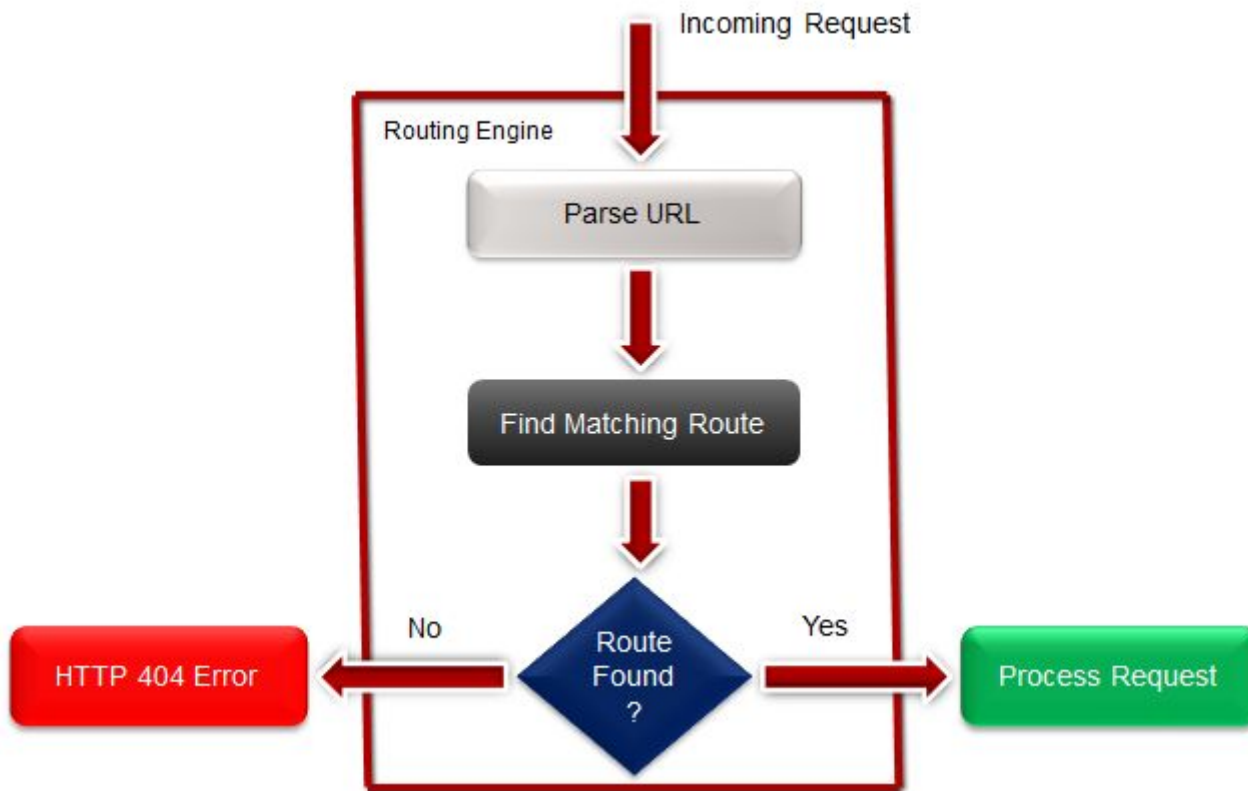
Все это уже умеет сайт на  
платформе ASP.NET MVC

# Жизненный цикл ASP.NET MVC



# Роутинг в приложении ASP.NET MVC

# Как роутинг работает?



# 1 способ RouteConfig

```
public class RouteConfig
{
    public static void RegisterRoutes(RouteCollection routes)
    {
        routes.IgnoreRoute("{resource}.axd/{*pathInfo}");

        routes.MapRoute(
            name: "Default",
            url: "{controller}/{action}/{categoryId}/",
            defaults: new { controller = "Home", action = "Index", categoryId = UrlParameter.Optional }
        );
    }
}
```

# 2 способ АТТрибуТЫ

```
[HttpGet]
[Route("customers", Name = "CustomersIndexRoute")]
[Route("customers/{page:int:min(1)}", Name = "CustomersRoute")]
[Route("customers/{responsibleId:guid}/{page:int:min(1)}", Name = "CustomersByResponsibleRoute")]
public ActionResult Index(Guid? responsibleId = null, int? page = 1)
{
    responsibleId = GetResponsibleId();

    var pagedCollectionRequest = new PagedCollectionRequest((uint)page.GetValueOrDefault(1), 10);
    var managers = TicketSystemService.GetRosKvartalManagers(CurrentUser.Id);
    var customers = CustomerService.GetCustomers(pagedCollectionRequest, responsibleId, managers, (short)DateTime.Now.Year);
    var routeName = responsibleId.HasValue && responsibleId.Value != Guid.Empty ? "CustomersByResponsibleRoute" : "CustomersIndexRoute";

    var viewModel = new CustomersViewModel(customers, managers, CurrentUser.Roles)
    {
        RouteName = routeName,
        Areas = GetNavbar(routeName)
    };

    return View("Index", viewModel);
}
```

**Благодарю за внимание**

Вопросы