

# Web Framework

tdp100

why do we need it?



# front end

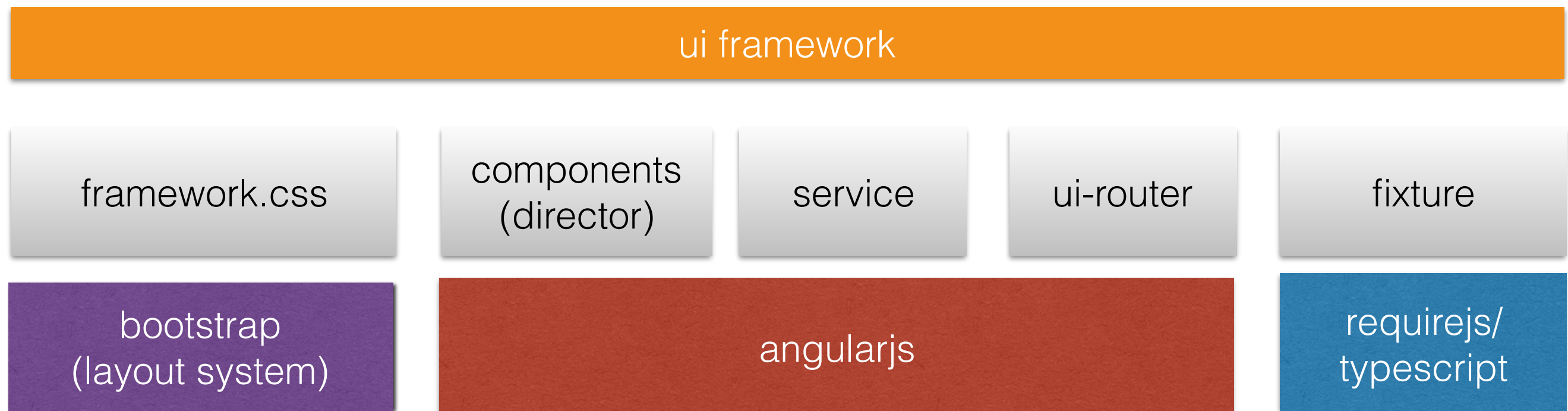
- UI Component
- CSS Lib(layout system)
- Page Routing(single page)
- Ajax or Utils
- Dependency Manage
- I18n
- Performance(cache)
- Fixture
- Deploy

# back end

- Authentication
- Safety(XSS, CSRF)
- Stateless(memcached/redis?)
- Restful framework
- Proxy(pass through api to backend service)
- Load balance(ECMP+DR?)
- Inject service dynamically
- Traffic control

# UI Framework

# stack



# AngularJS

<https://www.angularjs.org>



The screenshot shows the AngularJS homepage. At the top is a dark navigation bar with the AngularJS logo, a 'Home' link, and dropdown menus for 'Learn', 'Develop', and 'Discuss'. A search bar is on the right. The main content area features the large AngularJS logo with 'by Google' underneath. Below the logo is the tagline 'HTML enhanced for web apps!'. Two blue buttons are prominent: 'Download AngularJS 1' with a download icon and the version '(1.5.5 / 1.2.29)', and 'Try the new Angular 2' with the Angular logo and the text '2.0 NOW IN BETA!'. Below these are two more buttons: 'View on GitHub' and 'Design Docs & Notes'. The footer contains social media links: 'Follow +AngularJS on', 'Follow @angularjs', and 'Tweet'.

ANGULARJS

Home Learn Develop Discuss Search

ANGULARJS  
by Google

HTML enhanced for web apps!

Download AngularJS 1  
(1.5.5 / 1.2.29)

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layout system

# Bootstrap

<https://getbootstrap.com>



Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.

Download Bootstrap

Currently v3.3.6

# Fixture

see: <http://www.javascriptmvc.com/docs/can.fixture.html>

JavaScriptMVC

CanJS

can.fixture

delay

on

rand

rootUrl

store

TYPES

Store

requestHandler

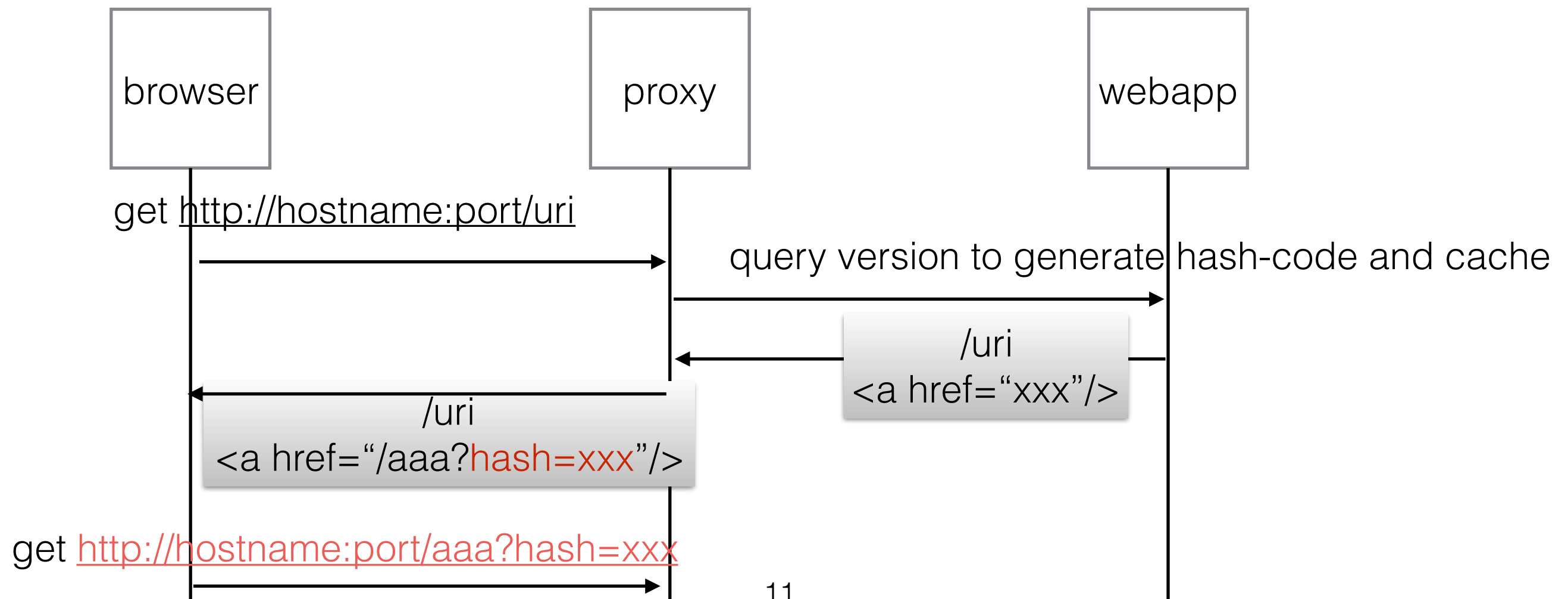
responseHandler

## can.fixture can.fixture

- [can.fixture\(fromUrl, toUrl\)](#)
- [can.fixture\(url, handler\(request, response\)\)](#)
- [can.fixture\(fixture\)](#)
- [Types of Fixtures](#)
- [Static Fixtures](#)
- [Dynamic Fixtures](#)
- [Simulating Errors](#)
- [Turning off Fixtures](#)
- [can.fixture.store](#)
- [Testing Performance](#)
- [Organizing fixtures](#)

# Cache

- Generate hash-code by proxy dynamically
- Replace content's uri with hash-code for html or css file



# i18n

- Separate business code from i18n files
- Keep enough space for word, german especially

But, you should  
rebuild them together

backend framework

# stack

session-lib

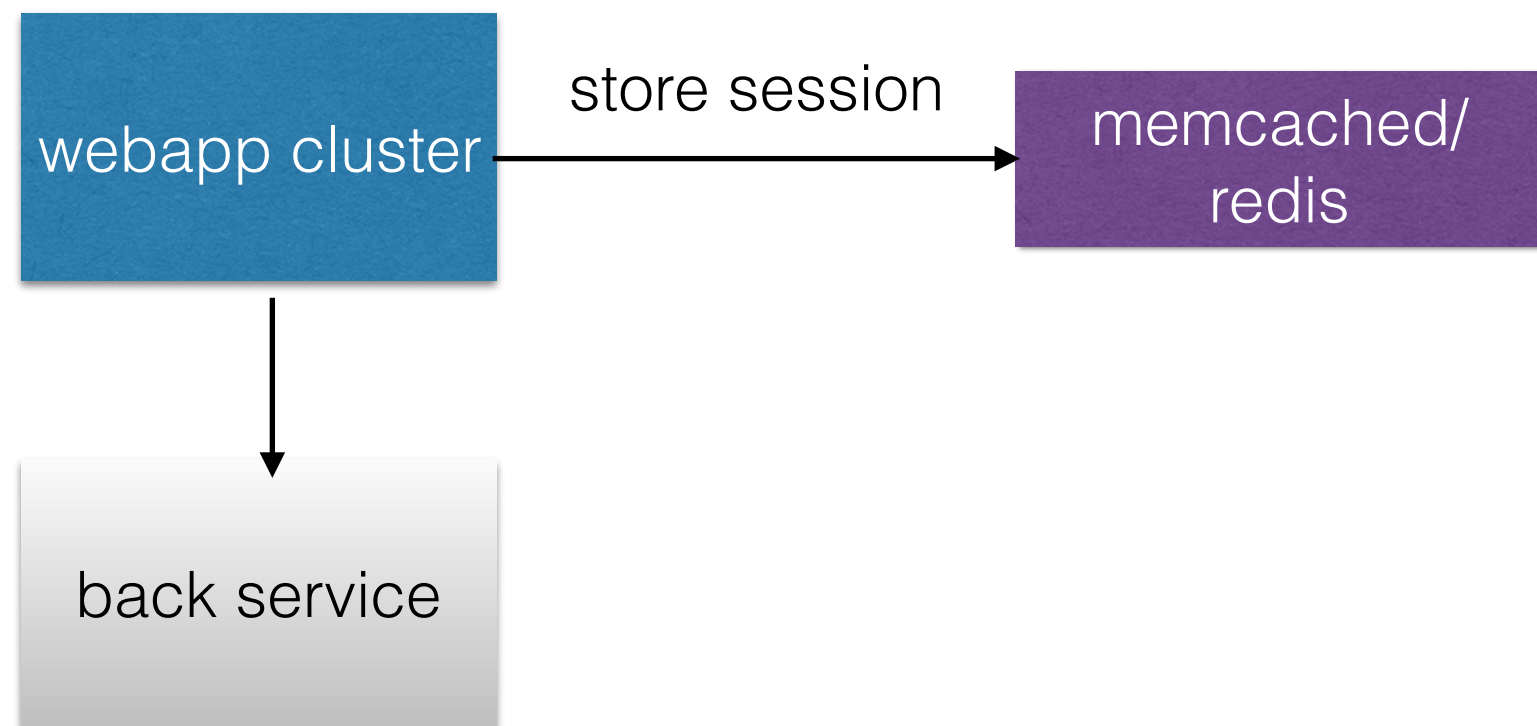
auth-lib

safety-lib

proxy-lib

autoload api-config file

# stateless





# API

- RESTful API
- Have nothing to do with language
- Open source
  - go http2
  - restlet+netty
  - node.js+express

# Traffic Control

- Set max connection number
- Aspects: user, api, task time?

# Load balance

- 4/7 LB
- Health Check
- Open Source
  - ECMP+LVS(DR)+NGINX
  - ECMP+LVS(fullnat)
  - Keepalived +LVS

# Deploy

- <http://docs.ansible.com>

**ANSIBLE**

Simple, agentless and powerful open source IT automation.

# Monitor

- <http://www.zabbix.com>



The Enterprise-class Monitoring Solution for Everyone

# Network

- DMZ(web app)
- Public Service Zone

END