



LIVE CODING SESSION

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FRONT END

### IVAN OSYPOV (TEAM LEAD FRONT END)



- ▶ 2009 - MAXX Marketing - PHP developer
- ▶ 2012 - Svitla System Inc. - Full Stack JS developer
- ▶ 2013 - Petrosoft LLC, Front End JS Developer
- ▶ 2014 - Petrosoft LLC, Front End Java Developer
- ▶ 2015 - Petrosoft LLC, Team Lead Front End
- ▶ 2020 - DatawizlO, Team Lead Front End





## LIVE CODING SESSION

We will have:

- ▶ Theory
- ▶ Practical tutor coding (Coding)
- ▶ Practical students coding (Task)
- ▶ If you have question, fell free to ask.
- ▶ A good time :)





# JQUERY

- ▶ Home page - <https://jquery.com/>
- ▶ Selectors Documentation - <https://api.jquery.com/category/selectors/>



## JQUERY

- ▶ Selectors on Vanilla JS ([1\\_vanilla\\_js.html](#)).
- ▶ Selectors with jQuery ([1\\_jquery.html](#)).





## TASK

# JQUERY

You have html file ([task\\_1\\_selectors.html](#)). Make selectors for:

1. Table with **id="age-table"**.
2. All **label** elements inside this table (three items).
3. First **td** in this table (item with word «Age»).
4. Form **form** with name **name="search"**.
5. First **input** in this form.
6. Last **input** in this form.
7. Add to table a few new rows.
8. Make odd and even rows on different colors.

**Solution:** [task\\_1\\_selectors\\_solution.html](#).



# FRONT-END TOOLKITS

Tool with components, styles, that are ready to use.

Examples:

- ▶ Bootstrap (<https://getbootstrap.com/>);
- ▶ Materialize CSS (<https://materializecss.com/>);
- ▶ PureCSS (<https://purecss.io/base/>);
- ▶ Others (<https://beebom.com/best-front-end-frameworks-for-bootstrap-alternative/>).



# BOOTSTRAP

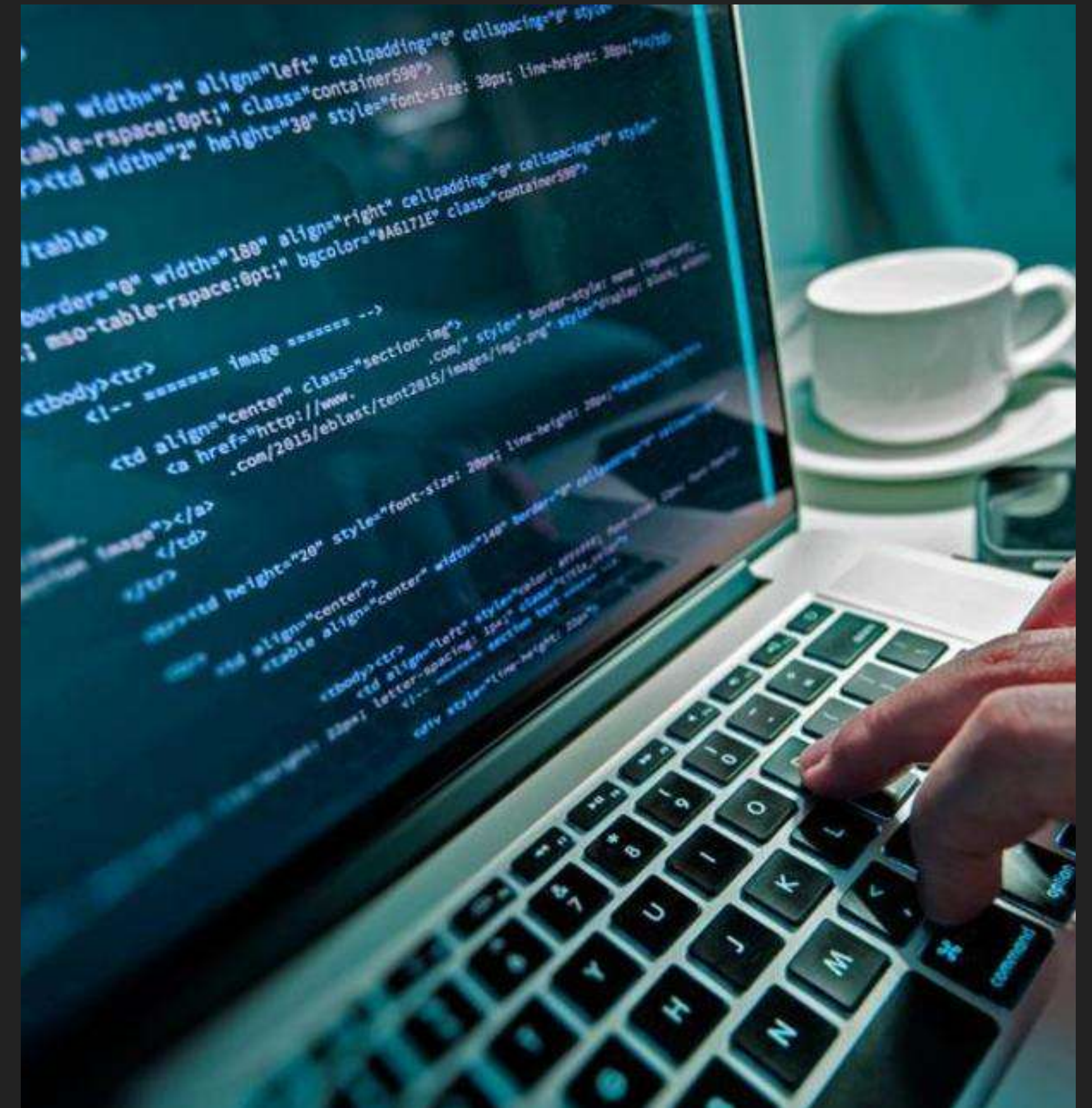
- ▶ Home page (<https://getbootstrap.com/>)
- ▶ What does bootstrap bring to us?
- ▶ Examples (<https://getbootstrap.com/docs/4.6/examples/>).
- ▶ Getting started (<https://getbootstrap.com/docs/4.6/getting-started/introduction/>).
- ▶ Components (<https://getbootstrap.com/docs/4.6/components/>).





# BOOTSTRAP

- ▶ Make alert box without Bootstrap ([2\\_alert\\_with\\_out\\_bootstrap.html](#)).
- ▶ Make alert box with Bootstrap ([2\\_alert\\_with\\_bootstrap.html](#)).
- ▶ Add three components to page ([2\\_bootstrap\\_components.html](#)).





# BOOTSTRAP

- ▶ Look through components in official documentation.
- ▶ Create html file.
- ▶ Include bootstrap.
- ▶ Add three components to your page.

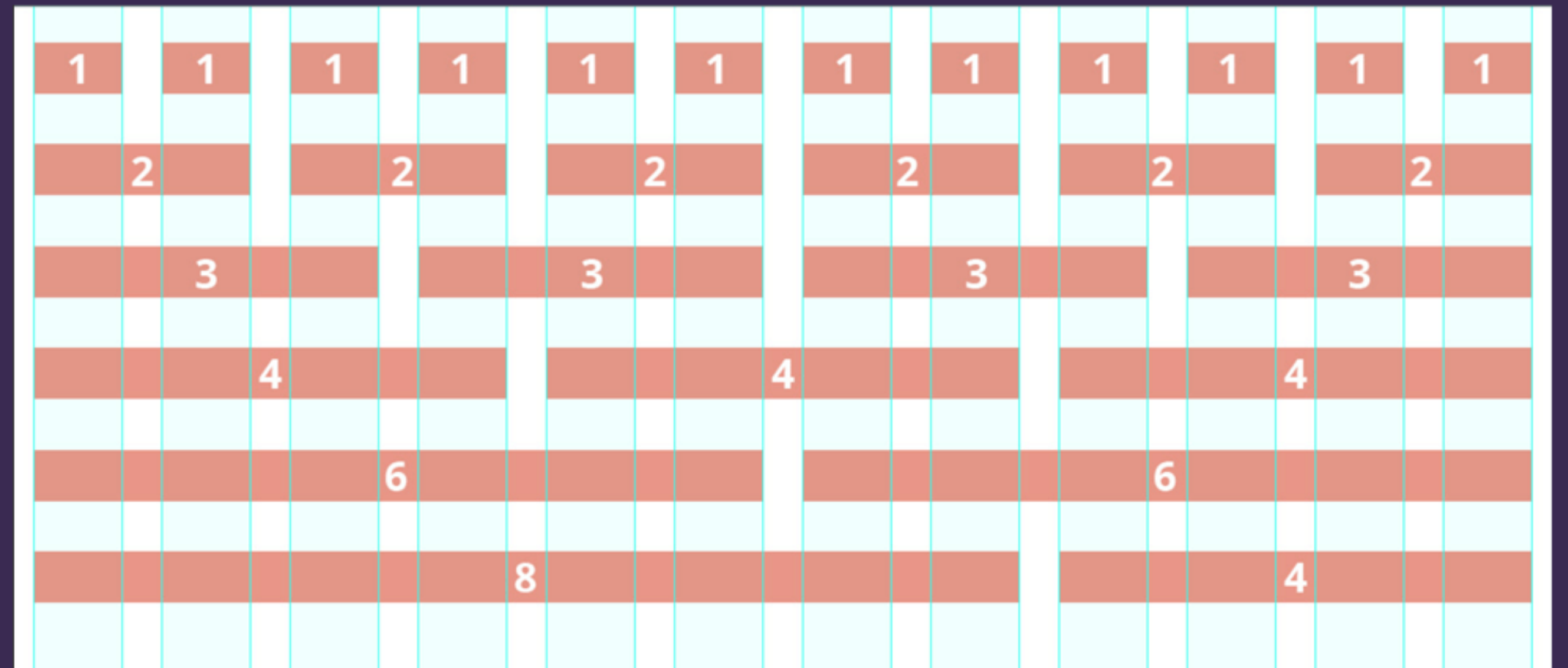
**Solution:** [2\\_bootstrap\\_components.html](#).





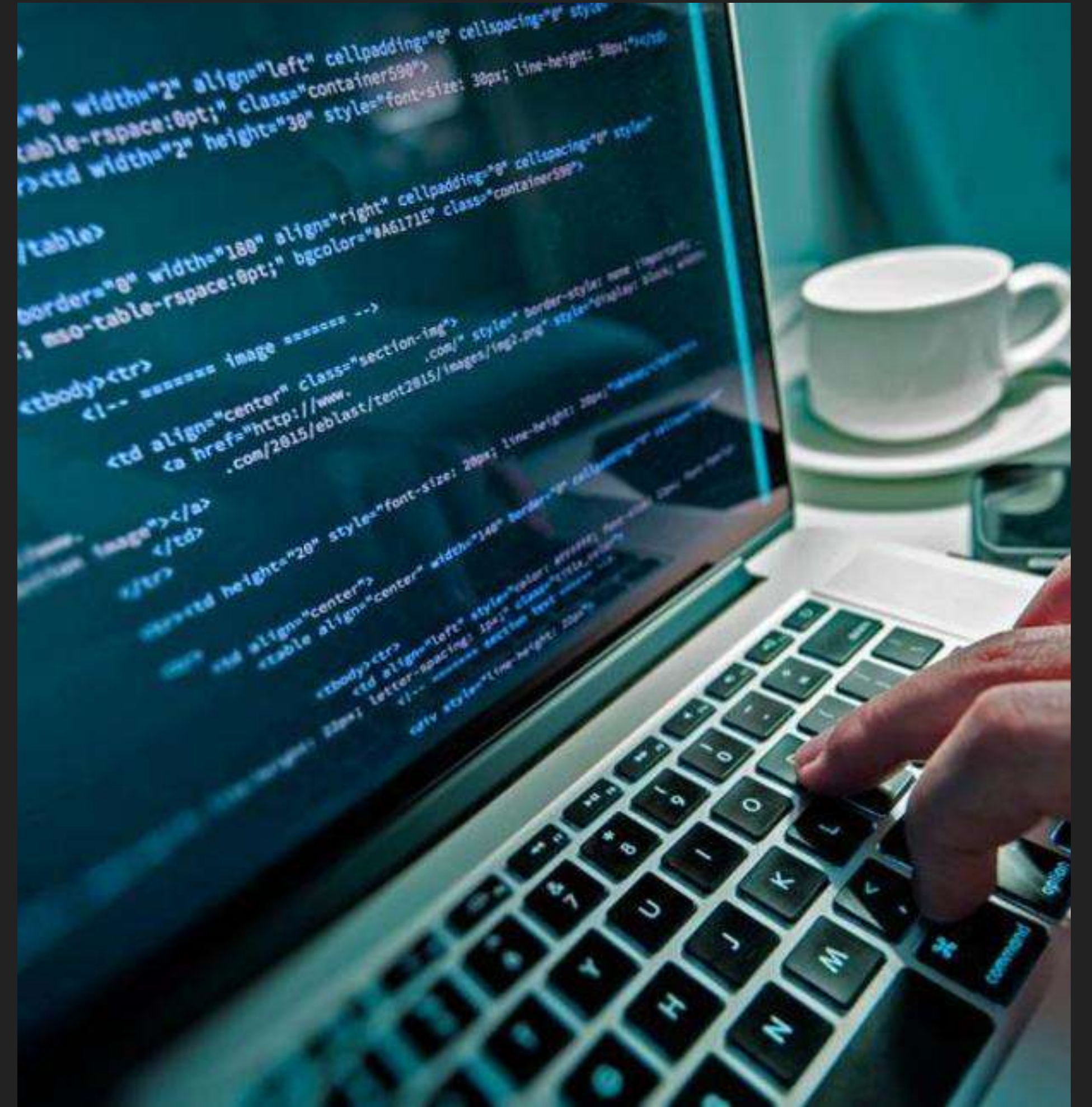
## BOOTSTRAP GRID LAYOUT

- ▶ Documentation ([Link](#)).
- ▶ Examples ([Link](#)).



# BOOTSTRAP GRID LAYOUT

- ▶ Make responsive grid layout ([3\\_bootstrap\\_grid.html](#)).





## TASK

# BOOTSTRAP GRID LAYOUT

Make responsive design (looks good on each device):

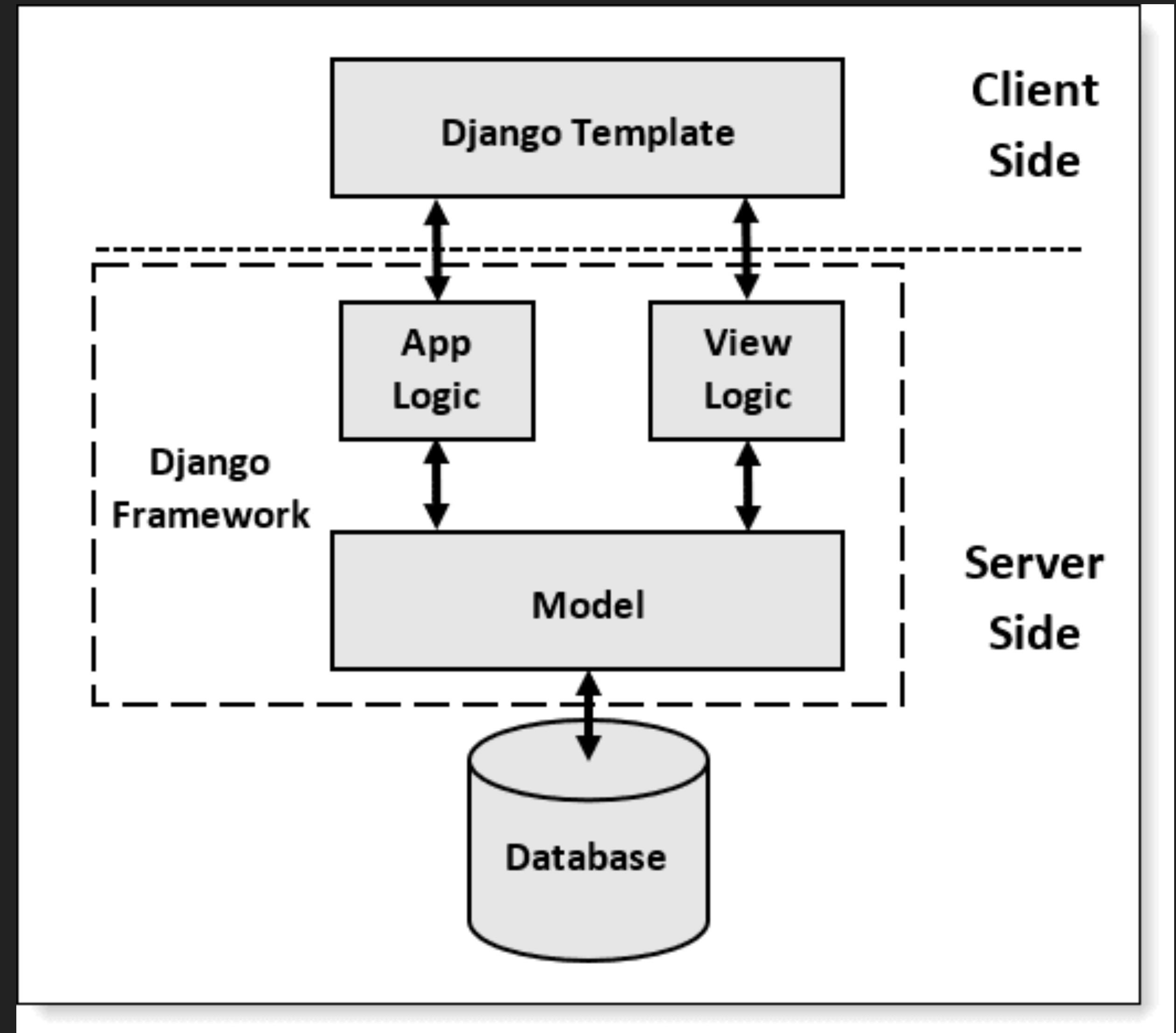
- ▶ **xs:** 1 row - 1 element;
- ▶ **md:** 1 row - 2 elements;
- ▶ **lg:** 1 row - 3 elements;
- ▶ **xl:** 1 row - 4 elements.

Solution: [task\\_2\\_bootstrap\\_layout\\_solution.html](#).



## DJANGO TEMPLATES

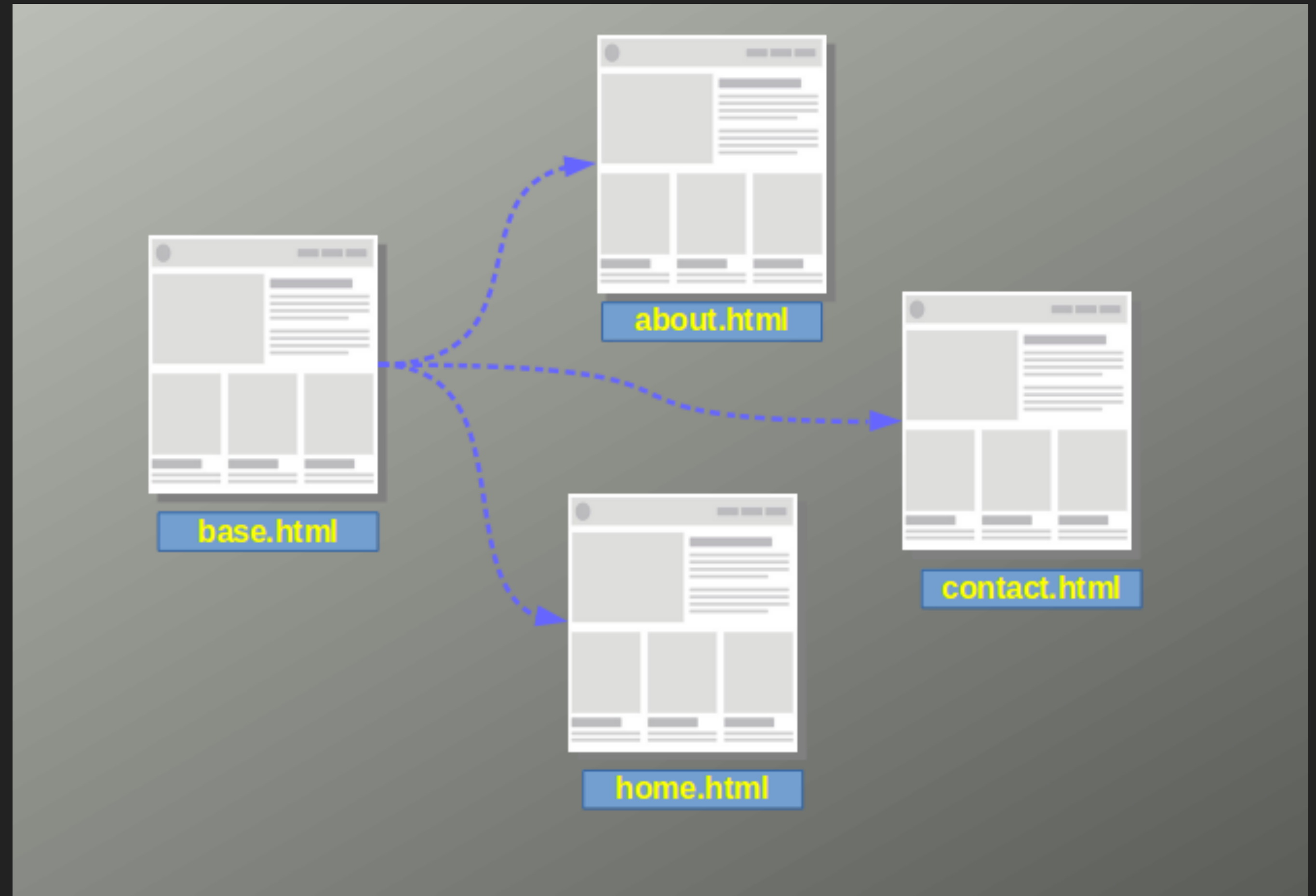
- ▶ Documentation (<https://docs.djangoproject.com/en/3.1/topics/templates/>)
- ▶ Example





## DJANGO TEMPLATES, EXTENDS

- ▶ **base** template
- ▶ Blocks
- ▶ Extend base template



# DJANGO TEMPLATES, EXTENDS

- ▶ Make **base.html** template.
- ▶ Make blocks:
  - ▶ title;
  - ▶ content.
- ▶ Extend **base.html** template to **index.html**.
- ▶ Add some bootstrap component on home page.

**Solution:** [front\\_1\\_base](#).





## TASK

# DJANGO TEMPLATES, EXTENDS

- ▶ Make **base.html** template.
- ▶ Include Bootstrap to **base.html**.
- ▶ Make blocks:
  - ▶ title;
  - ▶ content.
- ▶ Extend **base.html** to **index.html**.
- ▶ Design index.html. Feel free to use bootstrap components.

**Solution:** [front\\_1\\_base](#).



## DJANGO TEMPLATES, LOOPS

- ▶ for
- ▶ for ... empty
- ▶ Documentation (<https://docs.djangoproject.com/en/3.1/ref/templates/builtins/#for>)





## DJANGO TEMPLATES, LOOPS

- Output all posts on home page.

**Solution:** [front\\_2\\_posts](#).





# DJANGO TEMPLATES, LOOPS

- ▶ Output all posts on home page.
- ▶ Design each post using bootstrap.
- ▶ Make responsive output using bootstrap grid system.

**Solution:** [front\\_2\\_posts](#).





# DJANGO TEMPLATES

- ▶ Make template for one post output.
- ▶ Design post page using bootstrap.

**Solution:** [front\\_3\\_post](#).



# AJAX

AJAX is a developer's dream, because you can:

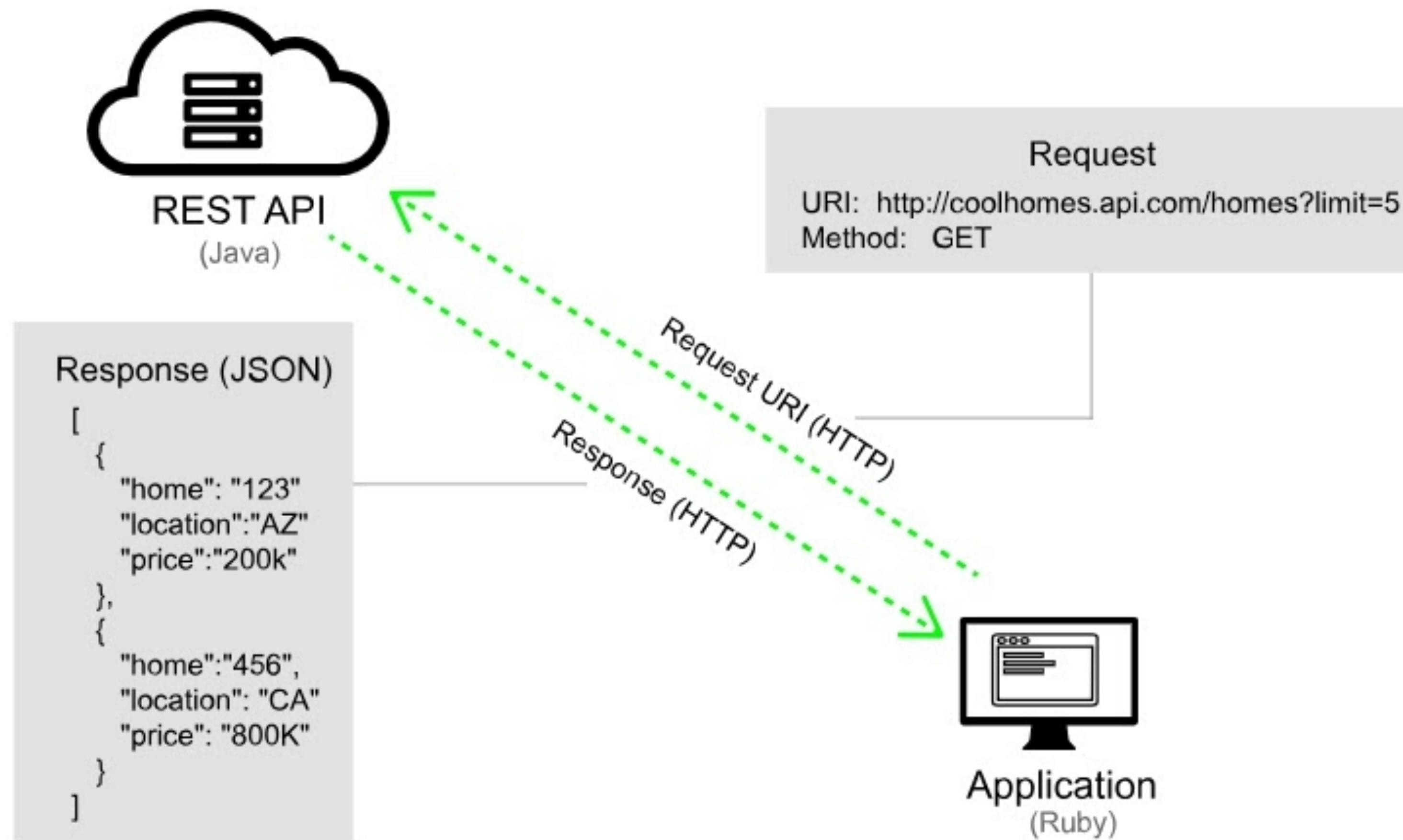
- ▶ Update a web page without reloading the page.
- ▶ Request data from a server - after the page has loaded.
- ▶ Receive data from a server - after the page has loaded.
- ▶ Send data to a server - in the background.





## AJAX

### REST API model



## JQUERY, AJAX

- ▶ `jQuery.ajax({  
 url: ...,  
 method: ...  
 success: ...  
})`
- ▶ Documentation (<https://api.jquery.com/jquery.ajax/>)





## JQUERY, AJAX

**Test API** - <https://jsonplaceholder.typicode.com/>

- ▶ Get all posts from **Test API**.
- ▶ Create new post (send request to **Test API**).
- ▶ Make comment form.
- ▶ Send POST request for create comment.

**Solution:** [5\\_ajax\\_basic.html](#).





## JQUERY, AJAX

- ▶ Make on post page comment form using bootstrap form.
- ▶ Send POST request to create comment.
- ▶ Send GET request to get all comments.
- ▶ Output all comment.
- ▶ Send POST request to "Like" post.

**Solution:** [front\\_4\\_comments](#).







**THANK YOU!**

**I HOPE YOU ENJOYED!**