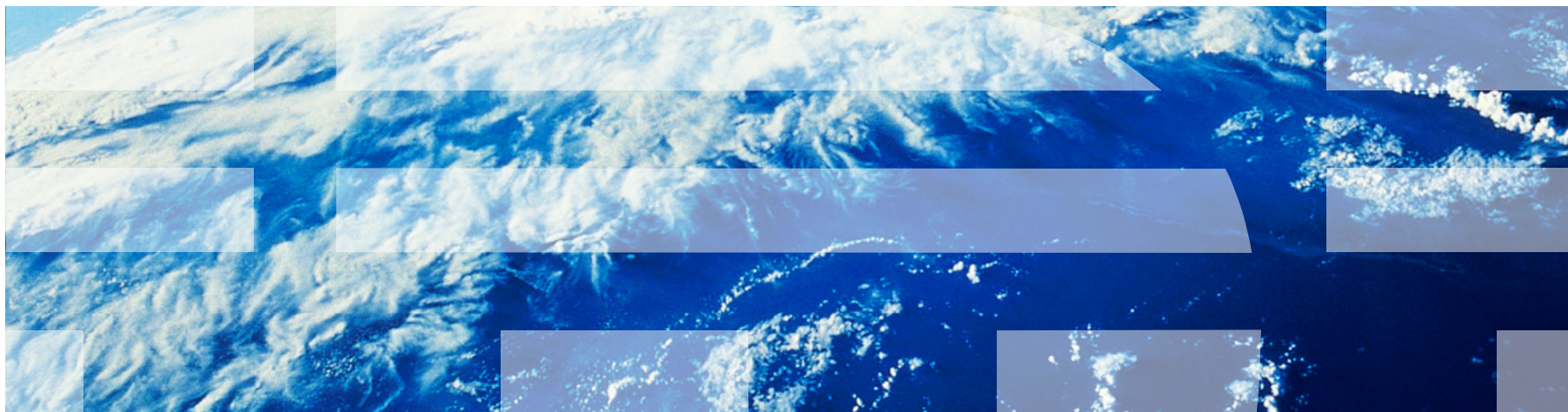




Занятие 6. Разработка бизнес-логики веб-приложений и контейнеризация



Цель и разделы

- Цель занятия — научиться использовать Flask и шаблонизаторы.

- Разделы:
 - Flask;
 - Hello, world!
 - Routes;
 - Subpaths;
 - Request;
 - HTTP Methods;
 - Jinja2;
 - Шаблоны;
 - Template rendering.

Flask

<https://flask.palletsprojects.com/>

Hello, world!

```
from flask import Flask  
app = Flask(__name__)
```

```
@app.route('/')  
def hello_world():  
    return 'Hello, World!'
```

Routes

```
@app.route('/')  
def index():  
    return 'Index Page'
```

```
@app.route('/hello')  
def hello():  
    return 'Hello, World'
```

Subpaths

```
@app.route('/user/<username>')
def show_user_profile(username):
    # show the user profile for that user
    return 'User %s' % escape(username)
```

```
@app.route('/post/<int:post_id>')
def show_post(post_id):
    # show the post with the given id, the id is an integer
    return 'Post %d' % post_id
```

```
@app.route('/path/<path:subpath>')
def show_subpath(subpath):
    # show the subpath after /path/
    return 'Subpath %s' % escape(subpath)
```

Request

```
def generate_report(year):  
    format = request.args.get('format')
```

HTTP Methods

```
from flask import request

@app.route('/login', methods=['GET', 'POST'])
def login():
    if request.method == 'POST':
        return do_the_login()
    else:
        return show_the_login_form()
```


Jinja2

<https://jinja.palletsprojects.com/>

Шаблоны

```
<title>{% block title %}{% endblock %}</title>
<ul>
  {% for user in users %}
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
  {% endfor %}
</ul>
```

Template rendering

```
from flask import render_template

@app.route('/hello/')
@app.route('/hello/<name>')
def hello(name=None):
    return render_template('hello.html', name=name)
```