

Hands-On – Lab. 8.1

Agile Project (Scrum)

- Homework
- Service-Oriented Software Engineering
- RESTful Web Services Development

January 10, 2023



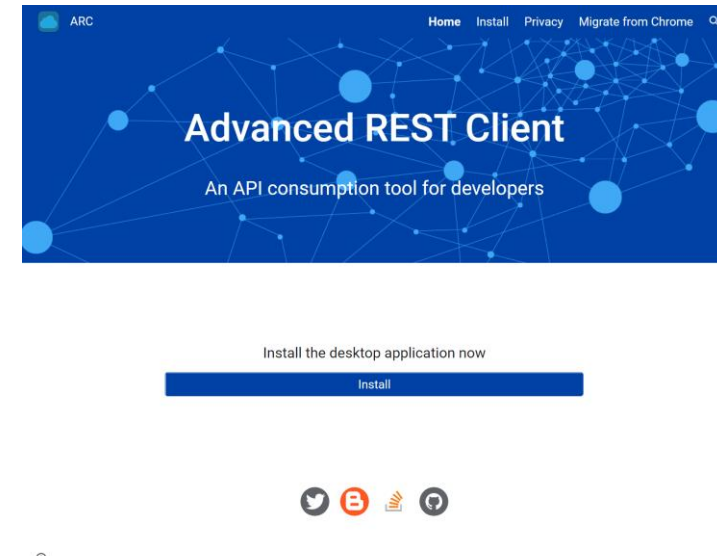
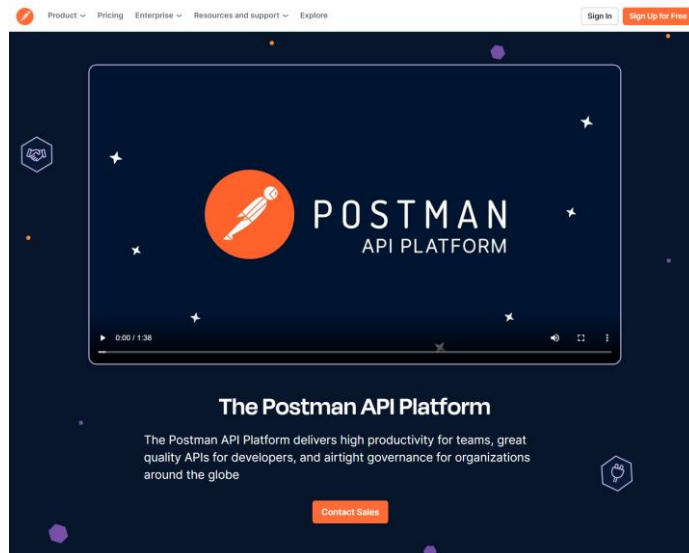
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- **Goals**

- Create a few service requests to existing Web Services (REST)
- Start thinking deeply about the structure of your **system components** and if it makes sense to develop them as web services (micro-services)
- Install **Postman** and/or **Advanced Rest Client**



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- **Tasks**

- **Try This**

- **GET** <http://85.245.94.213:7777>
 - **GET** <http://85.245.94.213:7777/version>
 - **GET** <http://85.245.94.213:7777/normal/10>
 - **GET** <http://85.245.94.213:7777/plot/normal/100>
 - **GET** <http://85.245.94.213:7777/crypto/BTC/30>
 - **GET** <http://85.245.94.213:7777/crypto/XRP/30>
 - **GET** <http://85.245.94.213:7777/plot/crypto/XRP/30>
 - **GET** <http://85.245.94.213:7777/docs/>
 - **POST** <http://85.245.94.213:7777/login>
 - **GET** <http://85.245.94.213:7000>
 - **GET** <http://85.245.94.213:7000/settings>
 - **GET** <http://85.245.94.213:7000/docs>

This is a RESTful API written in R

This is a RESTful API written in Python

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- **Tasks**

- **Try This (Python client)**

- **import requests**
 -
 - **# Making a GET request**
 - **r = requests.get('http://85.245.94.213:7777/crypto/BTC/60')**
 -
 - **# check status code for response received**
 - **# success code - 200**
 - **print(r)**
 -
 - **# print content of request**
 - **print(r.content)**

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- **Tasks**

- **Create a similar client as previous Python example**
 - **Using Javascript || Using Java || Pick another language of your choice**
- **Create a similar client to consume**
 - **POST <http://85.245.94.213:7777/login>**
 - **It uses as body (parameters)**
 - **username**
 - **password**

**Additional extra 0.5 points/per task
in your final grade
First team to show it, get 0.5 more**