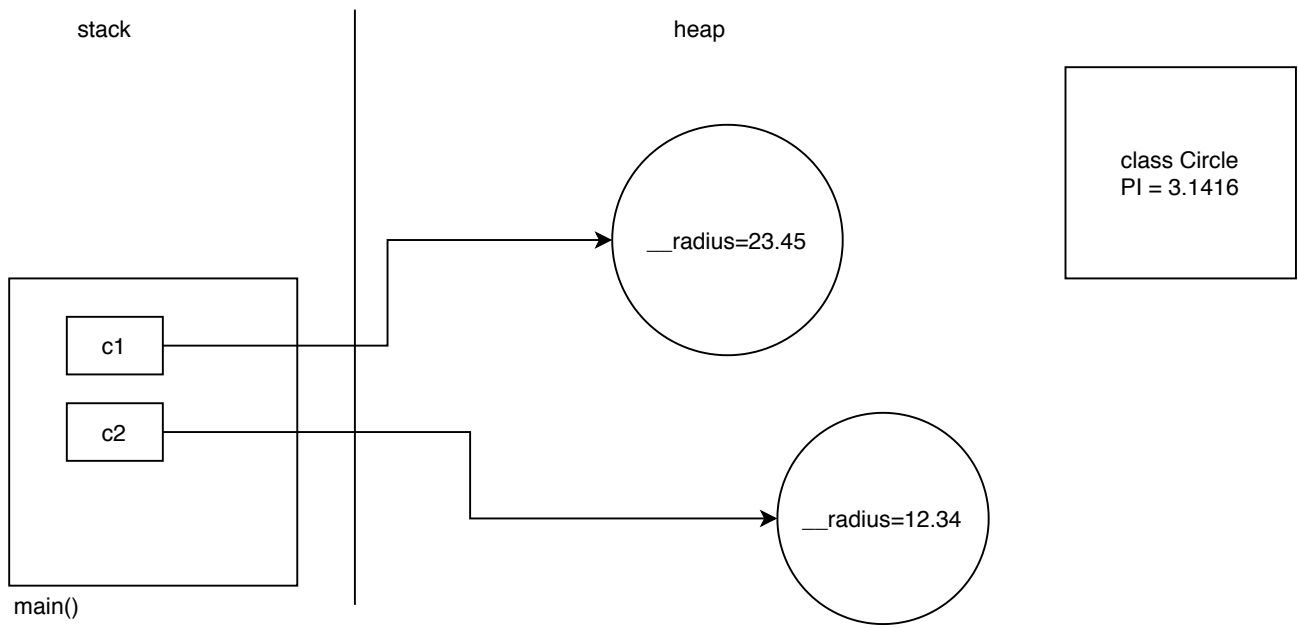
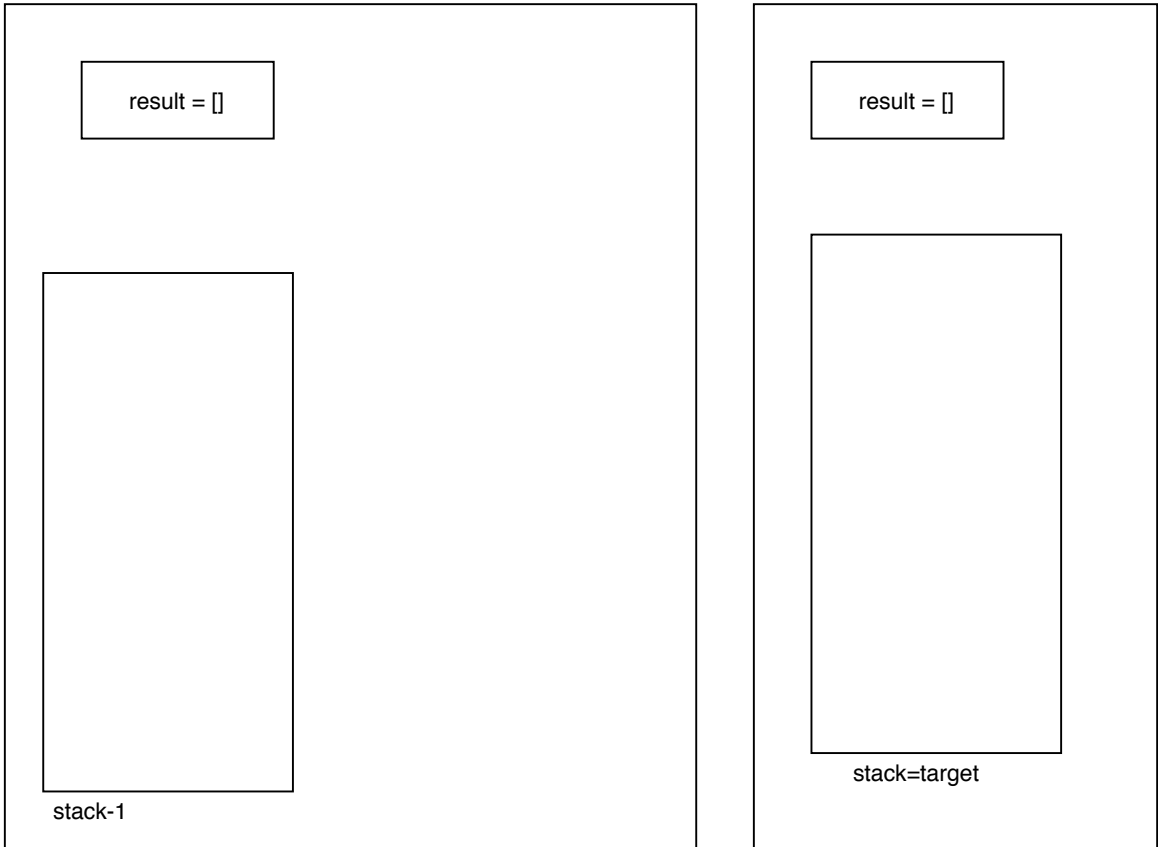


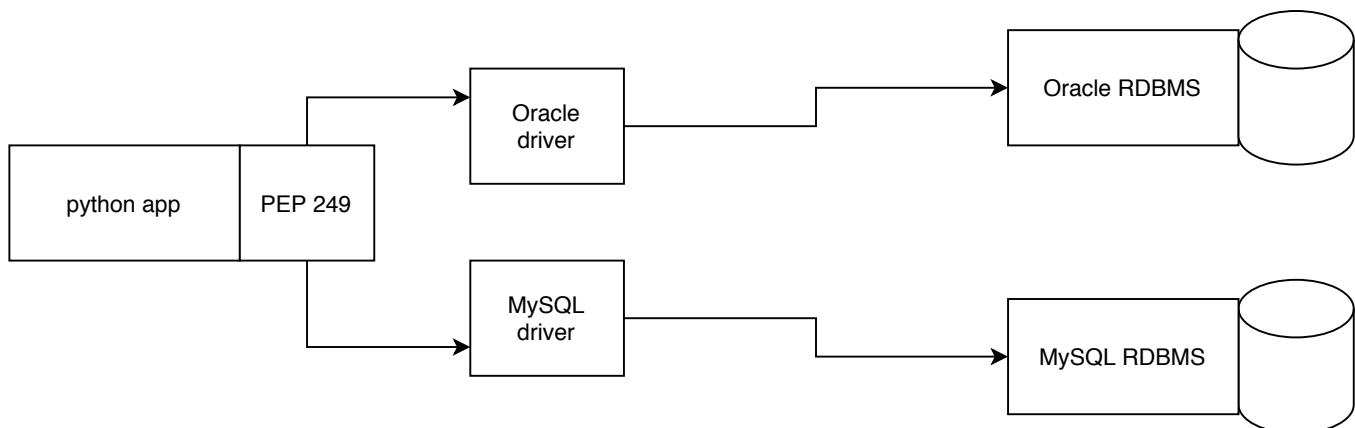
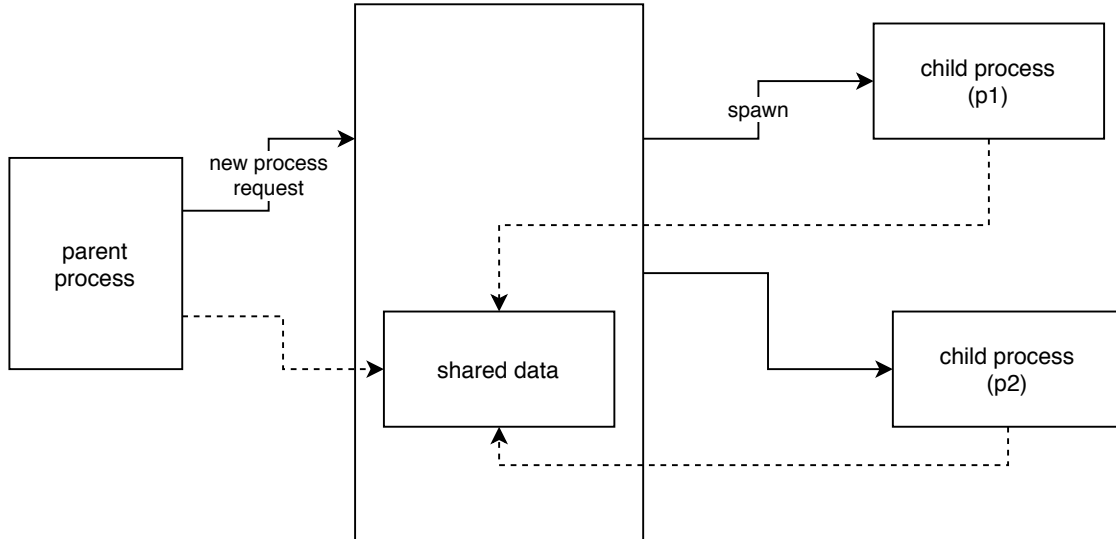
d1=D()
d1.f2() --> A.f2, B.f2 ??

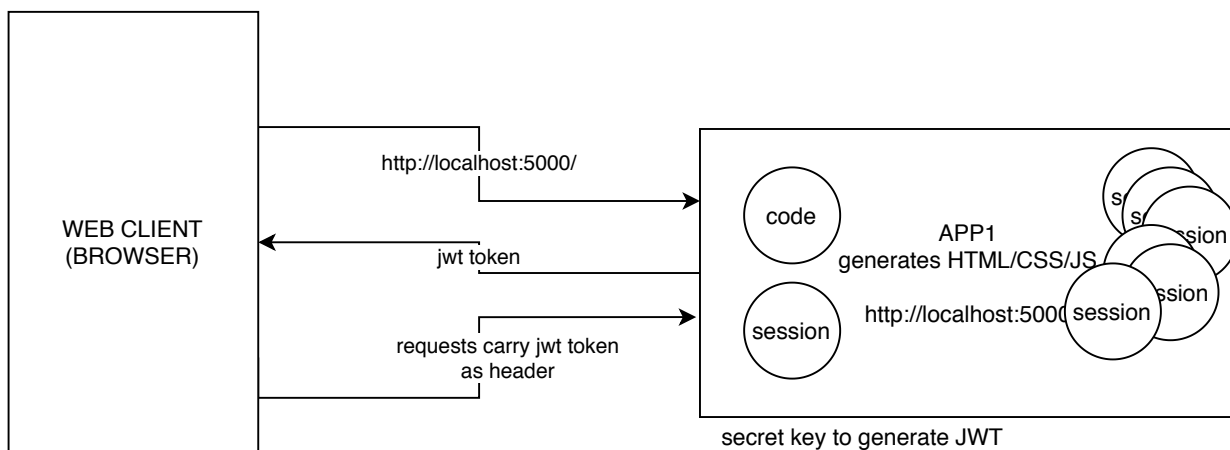
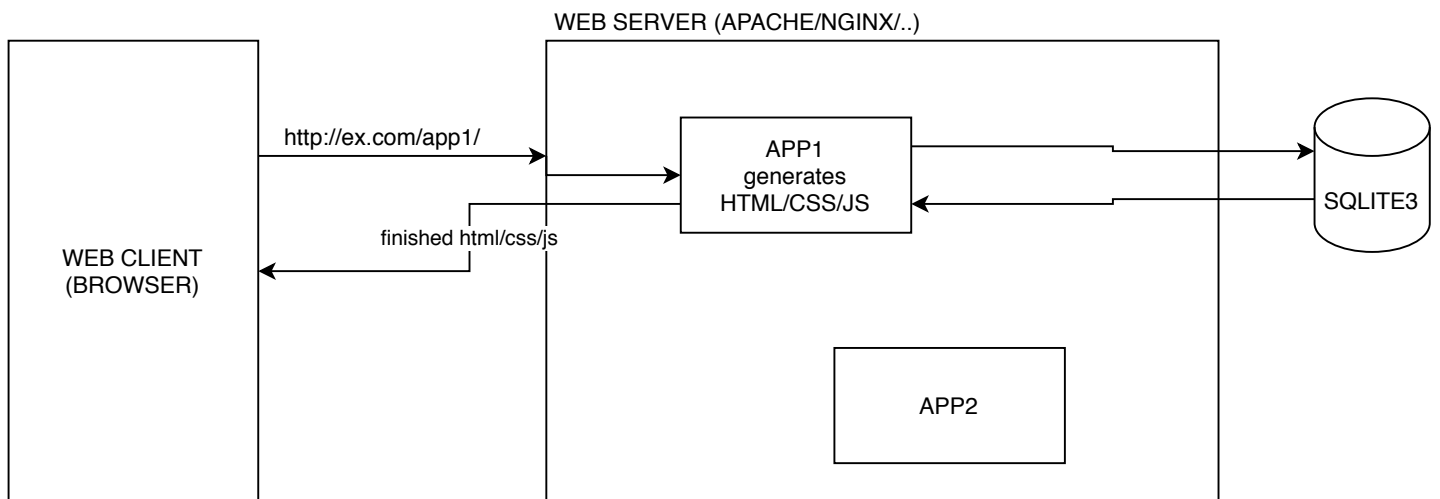
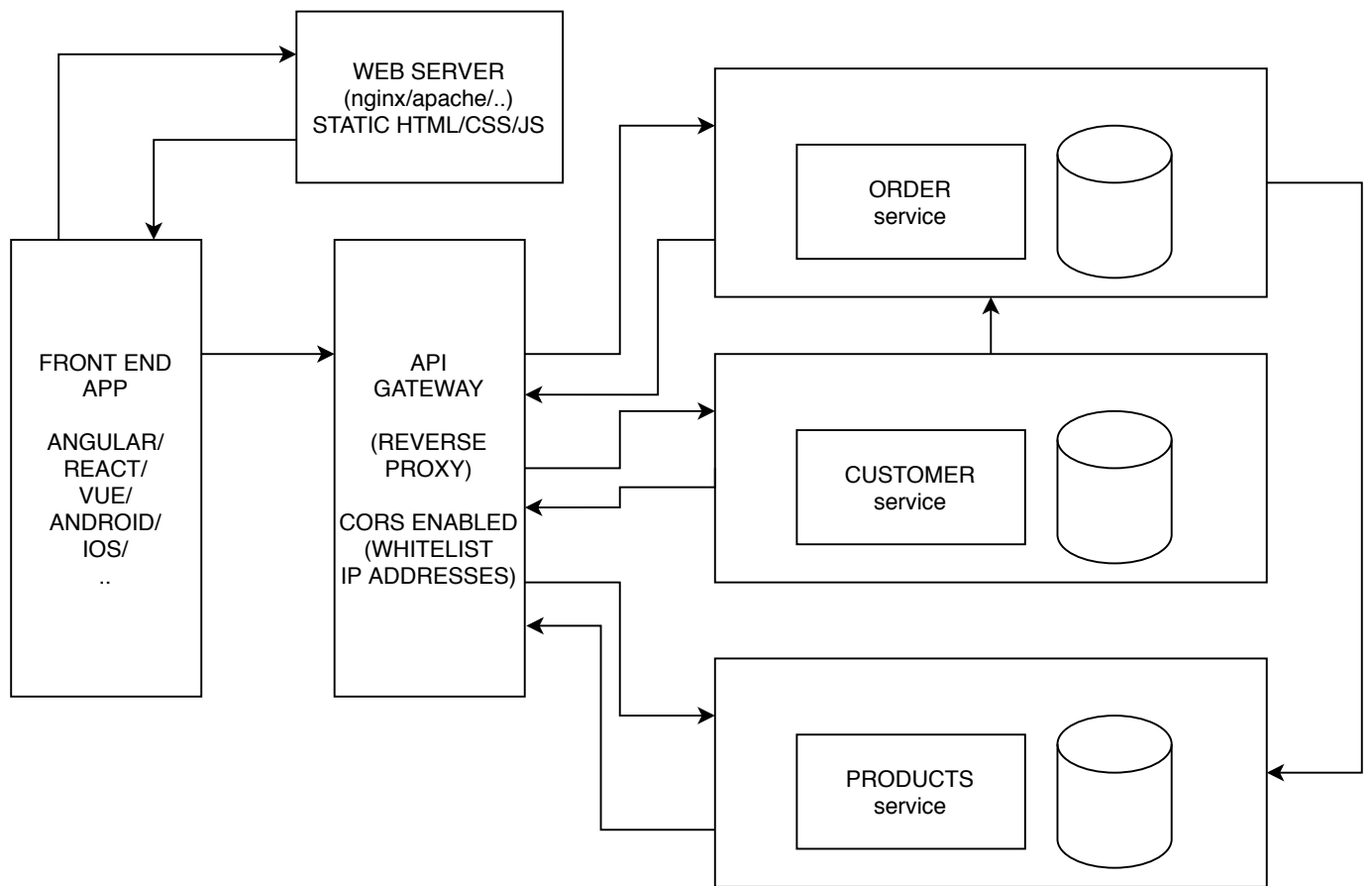


process



server process (Manager)



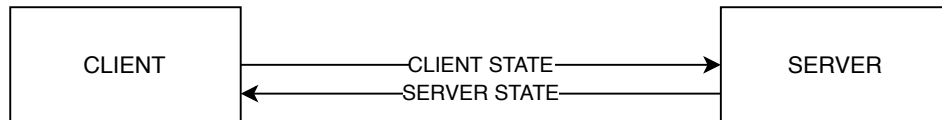


ReST

Representational (XML/JSON/..)

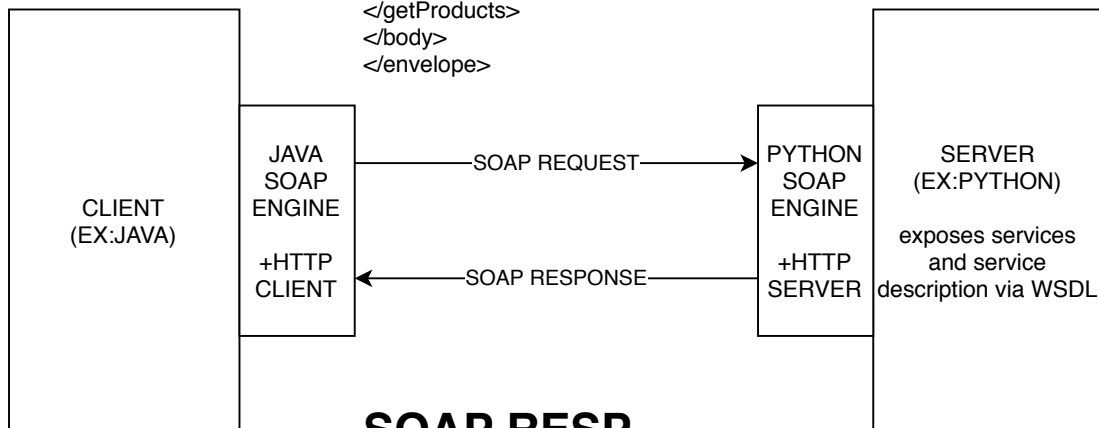
State (INFORMATION)

Transfer (HTTP/HTTPS --> GET/POST/PUT/DELETE/PATCH)



SOAP REQ

```
<envelope>
<header></header>
<body>
<getProducts>
<minPrice>10.0</minPrice>
<maxPrice>100.0</maxPrice>
</getProducts>
</body>
</envelope>
```



SOAP RESP

```
<envelope>
<header></header>
<body>
<getProductsResp>
<products>
<product id="1">
<name>xyz</name>
<price>15.0</price>
</product>
<product id="2">
<name>asdf</name>
<price>56.0</price>
</product>
</products>
</getProductsResp>
</body>
</envelope>
```

REST constraints:

1. Client/Server
2. Uniform interfaces (HTTP URI)
3. Stateless
4. Cacheable
5. Layered system (controller/service/dao/eis)
6. Code on demand (optional)

A resource is identifiable using URI (ex: `http://localhost:8080/api/contacts`)

An action is performed on a resource using HTTP verbs (ex: GET, POST, PUT, DELETE, PATCH)

Client and server can negotiate for the type of content (representation) using HTTP headers:

Accept --> client wants a specific representation (ex: `application/json` or `text/html`)

Content-Type --> client is sending (via POST/PATCH/PUT) a specific representation

CORS

Cross Origin Resource Sharing

URL --> scheme (protocol) + host + port + URI-segments

any of scheme/host/port is different ?? --> cors