

Make your users happy while they wait

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B1 10G

ā'pěks alpe adria

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HTML Expressions

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No one likes to wait

A&D

Process Execution Chain





Consulting and software development

Migrating Forms > APEX, APEX training, custom development

Our APEX solutions:

Akira - HR software

Product Studio - Portfolio and product life cycle management

Phoenitian - Comprehensive insurance business processes management

www.bilog.hr



Worked as a sysadmin, then as a school teacher

2011. I start working as an Oracle developer in BiLog d.o.o., main focus is APEX

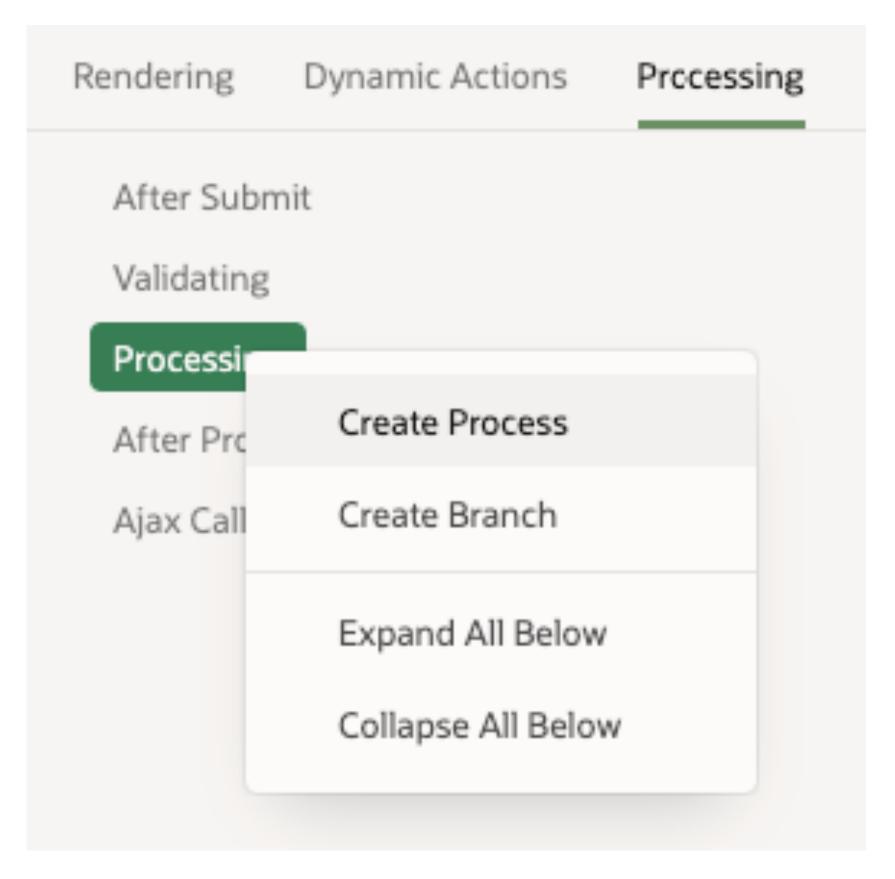
Software consultant, developer, trainer, team lead

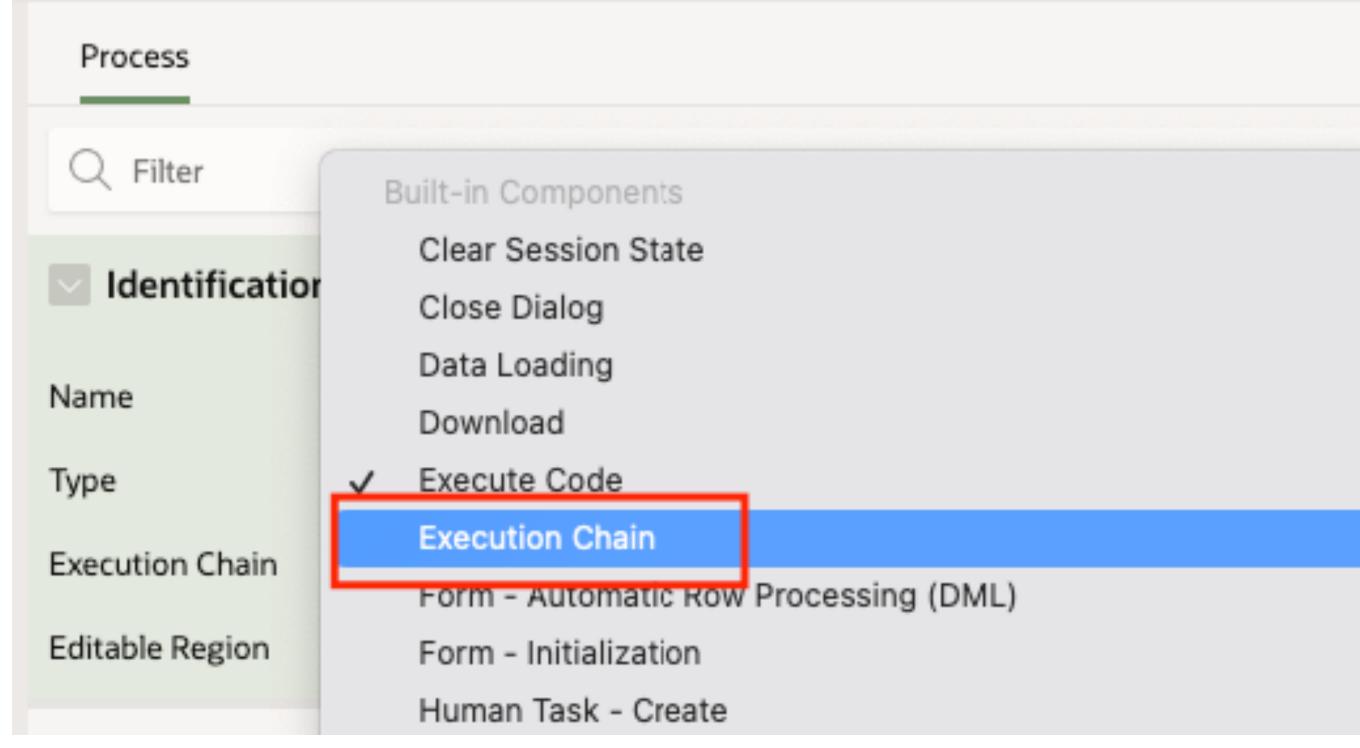
- https://www.linkedin.com/in/daniel-huha/
- daniel.huha@bilog.hr
- @thehuha
- github.com/thehuha

No one likes to wait

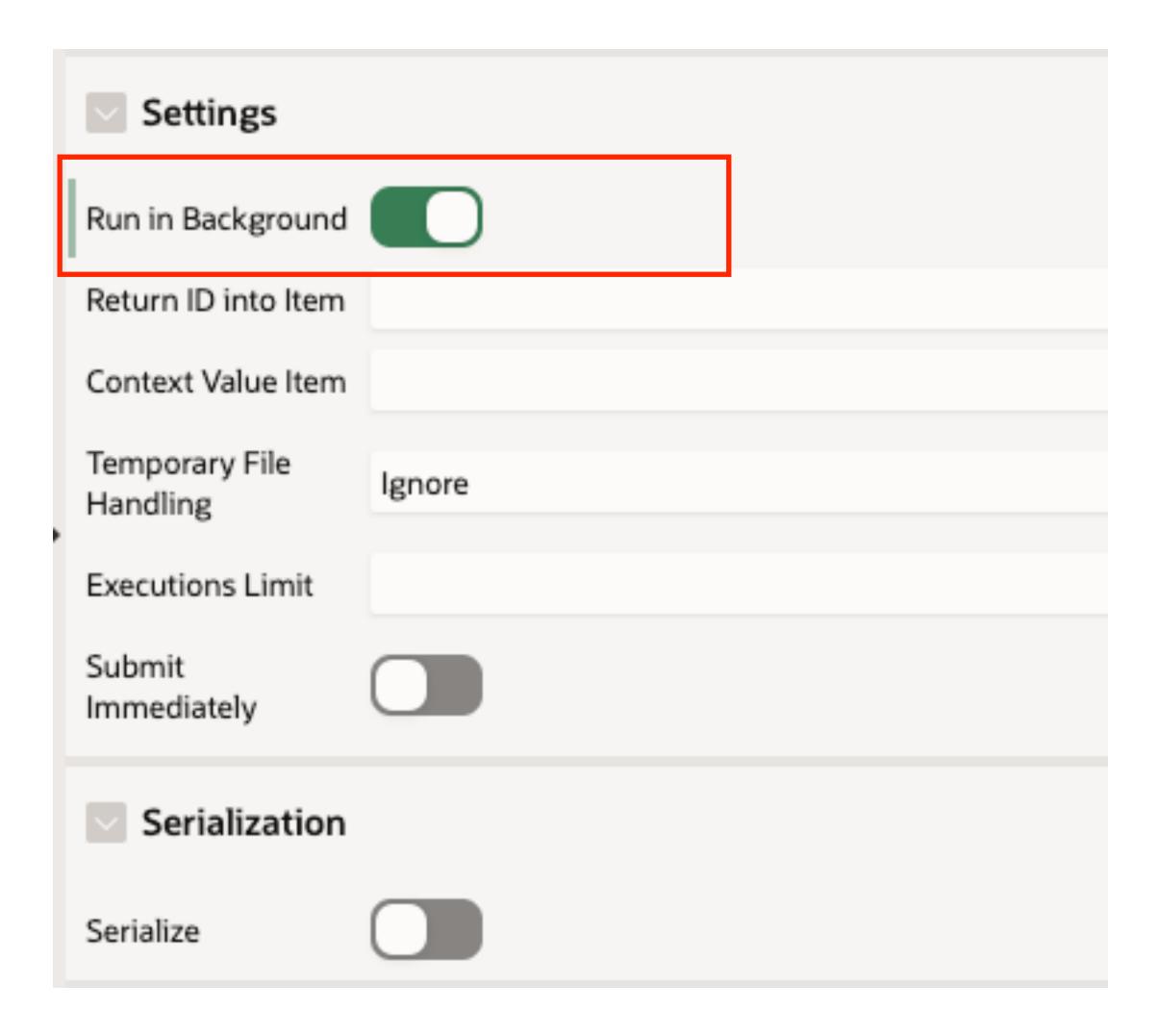
Long-running process = unresponsive APEX page = bad user experience

Process Type: Execution Chain





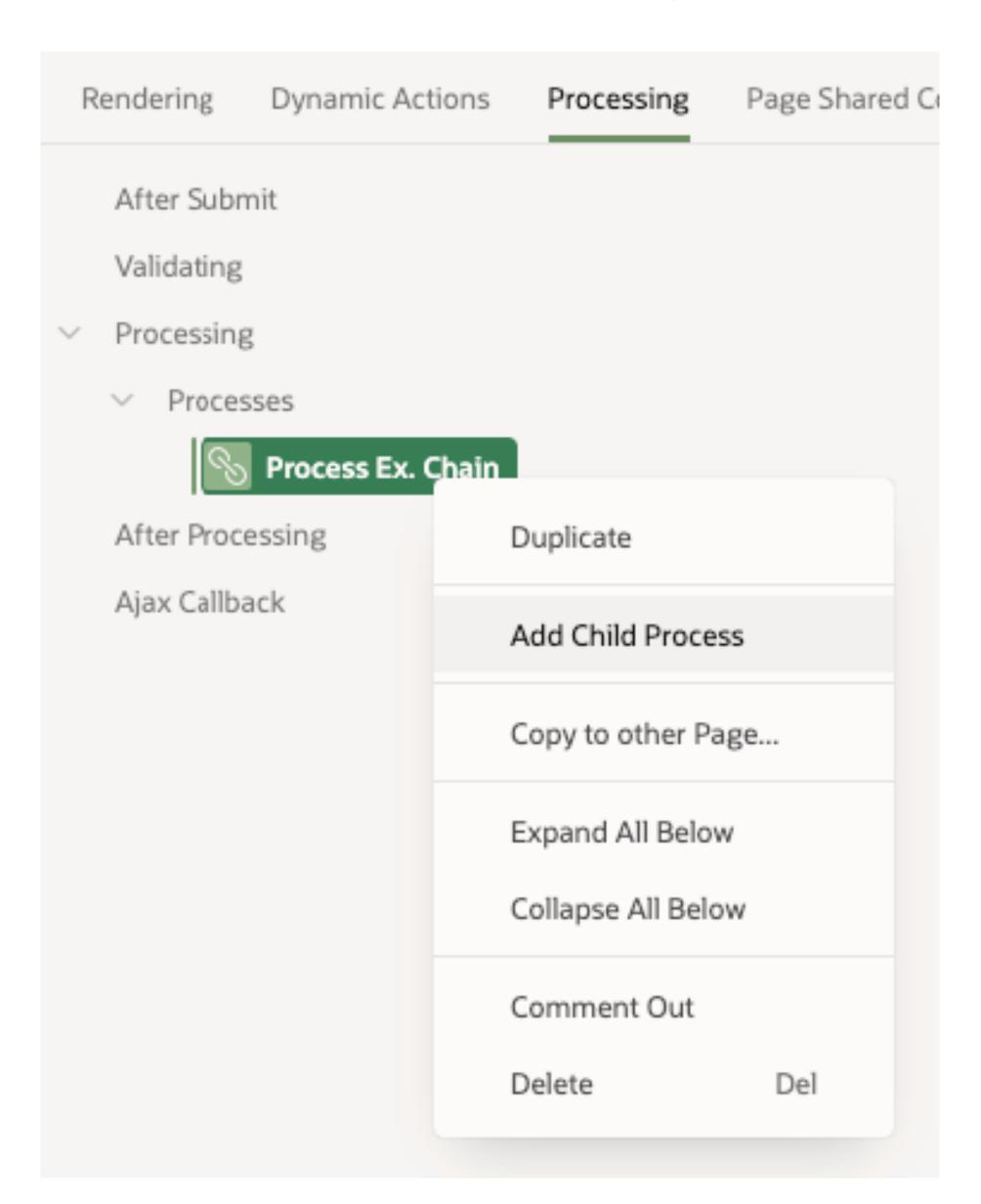
Run in Background!



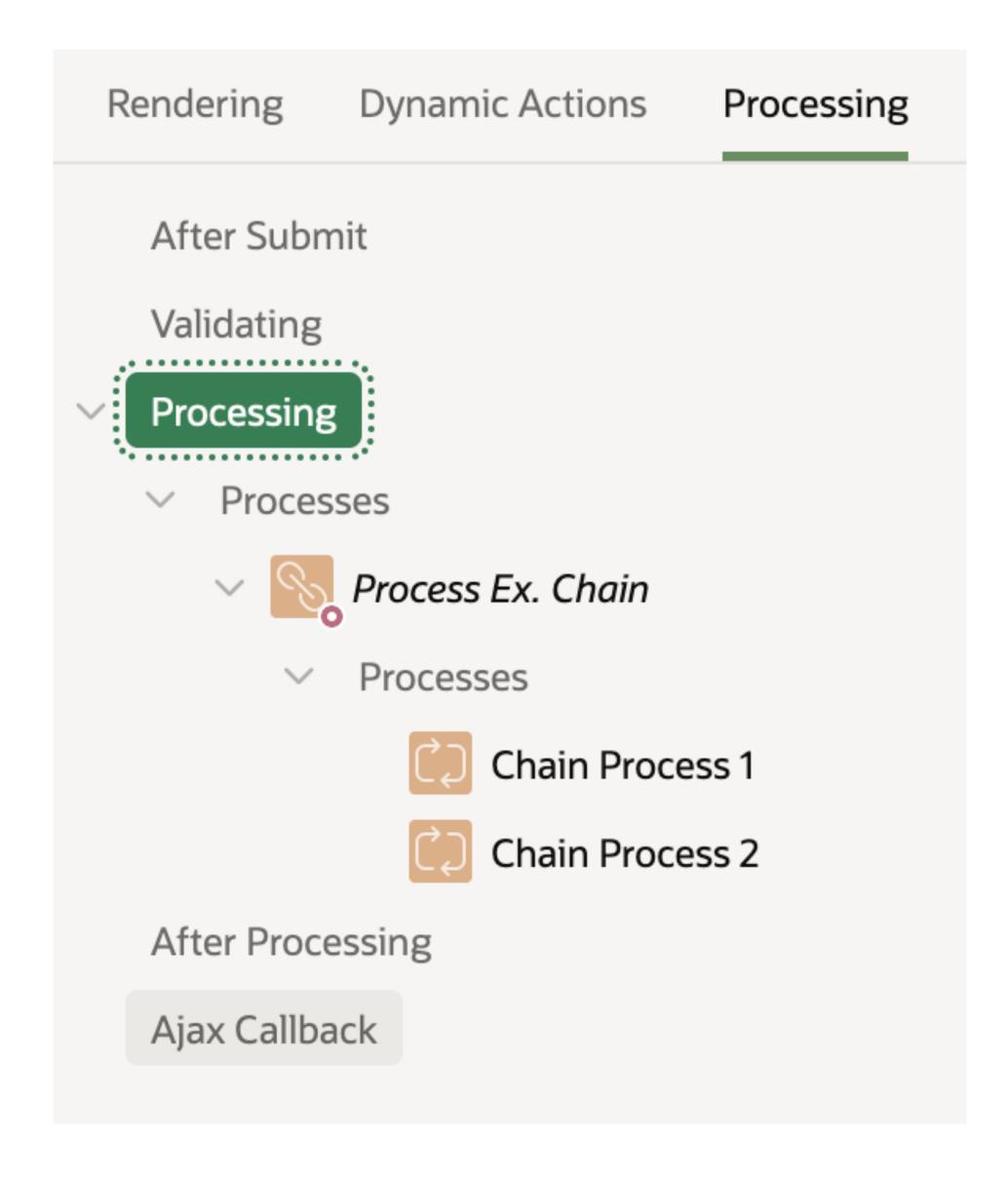
https://blog.cloudnueva.com/apex-background-pageprocessing-the-definitive-gude



Container for one or more processes

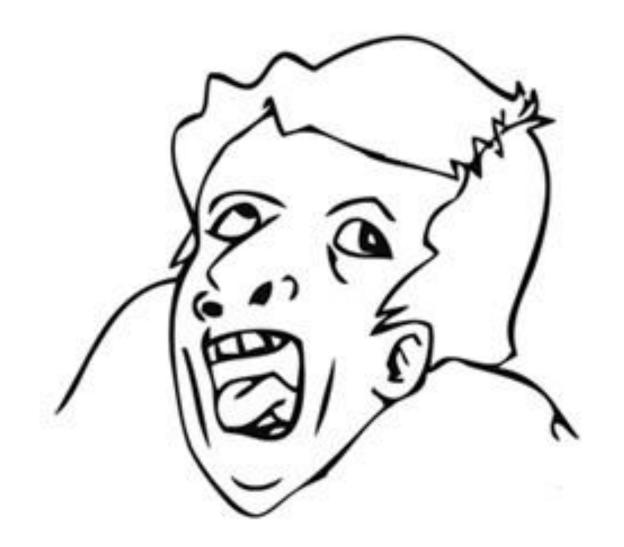


Container for one or more processes



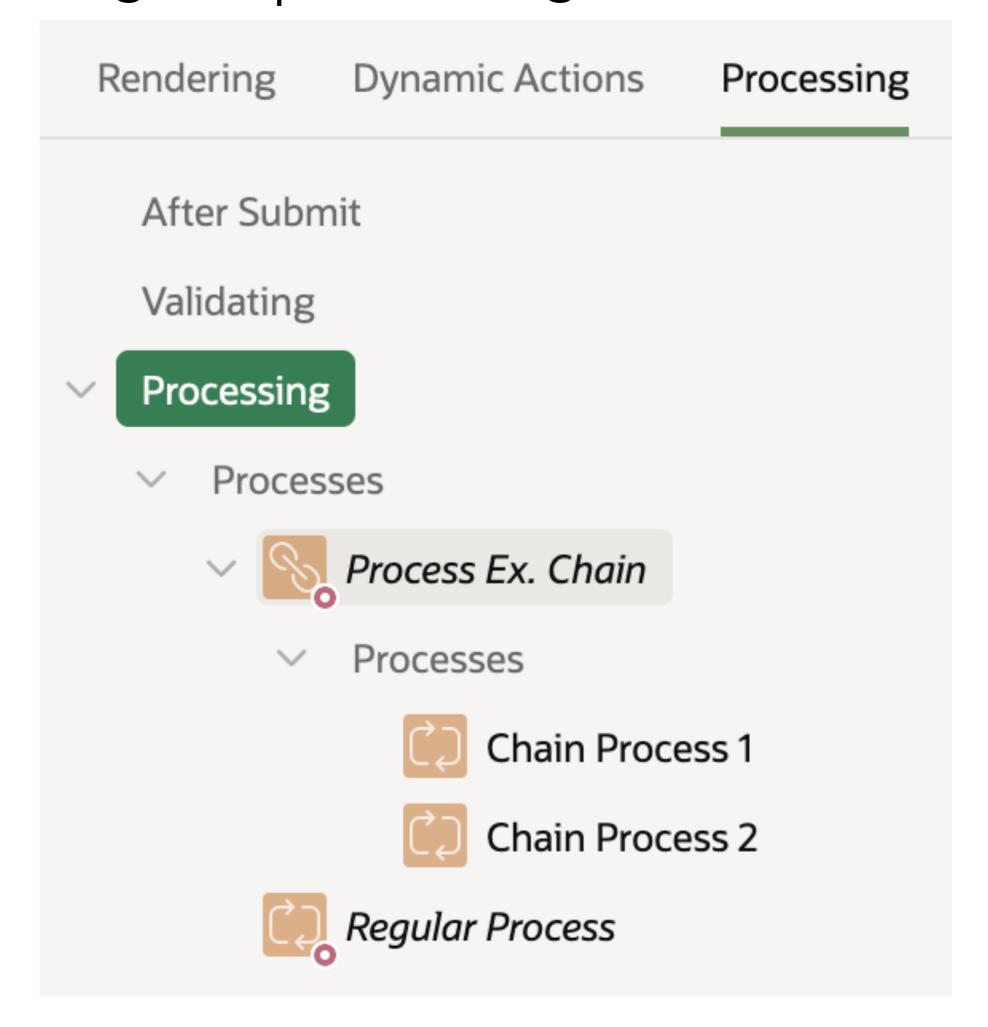
Demo code:

dbms_session.sleep(10);



Demo 1

Execution Chain vs. Regular processing



API package:

APEX_BACKGROUND_PROCESS

View:

APEX_APPL_PAGE_BG_PROC_STATUS

How can it be monitored?

```
select EXECUTION_ID,
    STATUS,
    STATUS_CODE,
    STATUS_MESSAGE,
    nvl(SOFAR, 0) sofar,
    nvl(TOTALWORK, 0) totalwork,
    nvl((sofar / totalwork * 100), 0) prog_pct,
    null as progress
    from APEX_APPL_PAGE_BG_PROC_STATUS
```

```
apex_background_process.set_progress(
 p totalwork => 10,
 p_sofar => 0
);
apex_background_process.set_status('Processing started');
for i in 1 .. 10 loop
  apex_background_process.set_progress(
   p_totalwork => 10,
   p sofar => i
  );
  apex_background_process.set_status('Currently processing chunk '||i);
 dbms_session.sleep(4);
end loop;
```

Tabular data - OK, but it could be improved

Visual representation - Richer and more distinguishable content, user friendly

HTML Expression

Report column level HTML formatting

Content substitution using e.g. #COLUMN_NAME#

Demo 2

HTML Expression to add a very simple Progress Bar



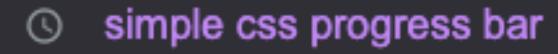
simple css progress bar









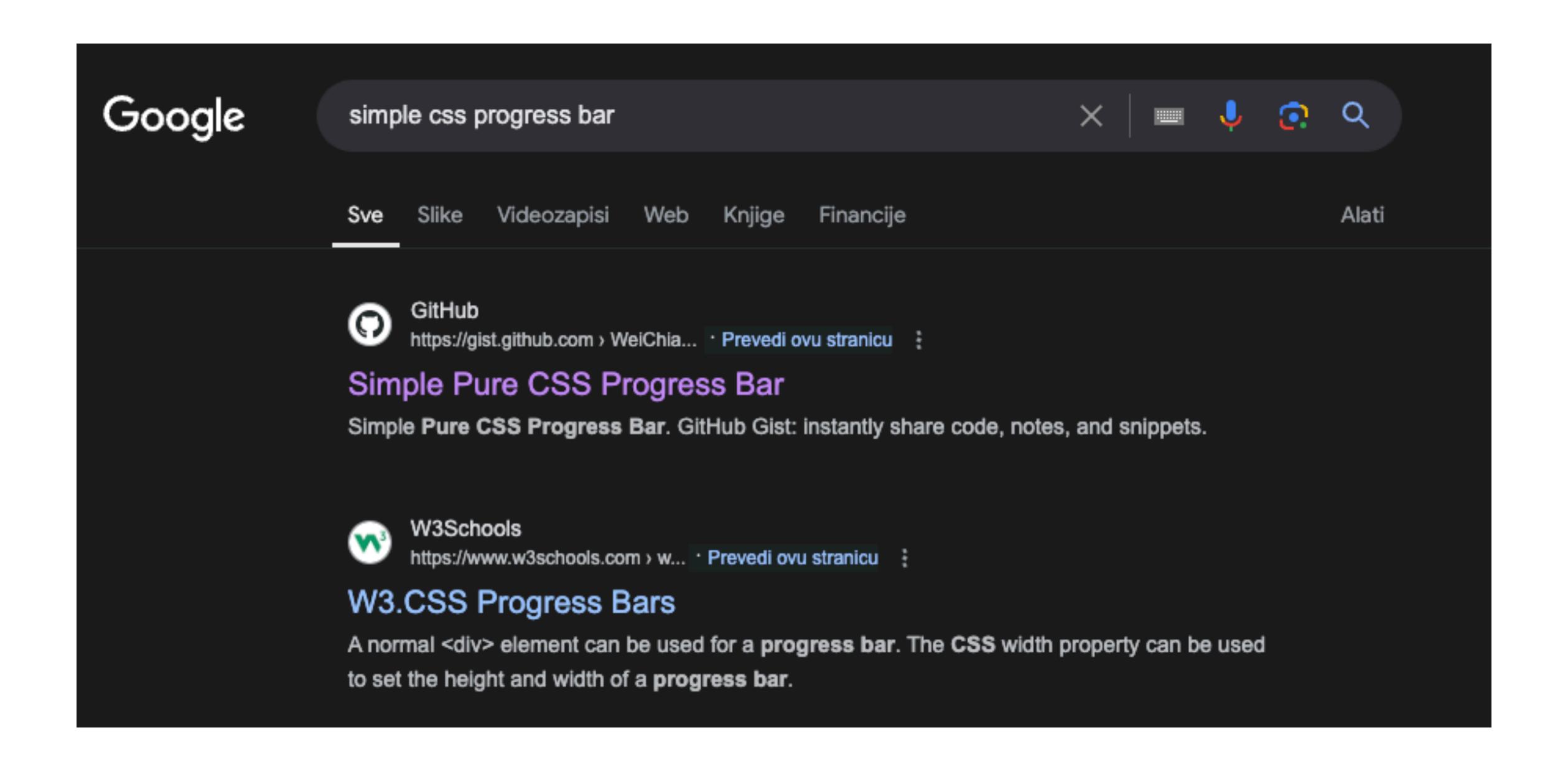


- simple css progress bar codepen
- simple css circle progress bar
- html css simple progress bar
- simple circular progress bar css
- Q slaganje pc konfiguracija
- Q css laboratorij

Google pretraživanje

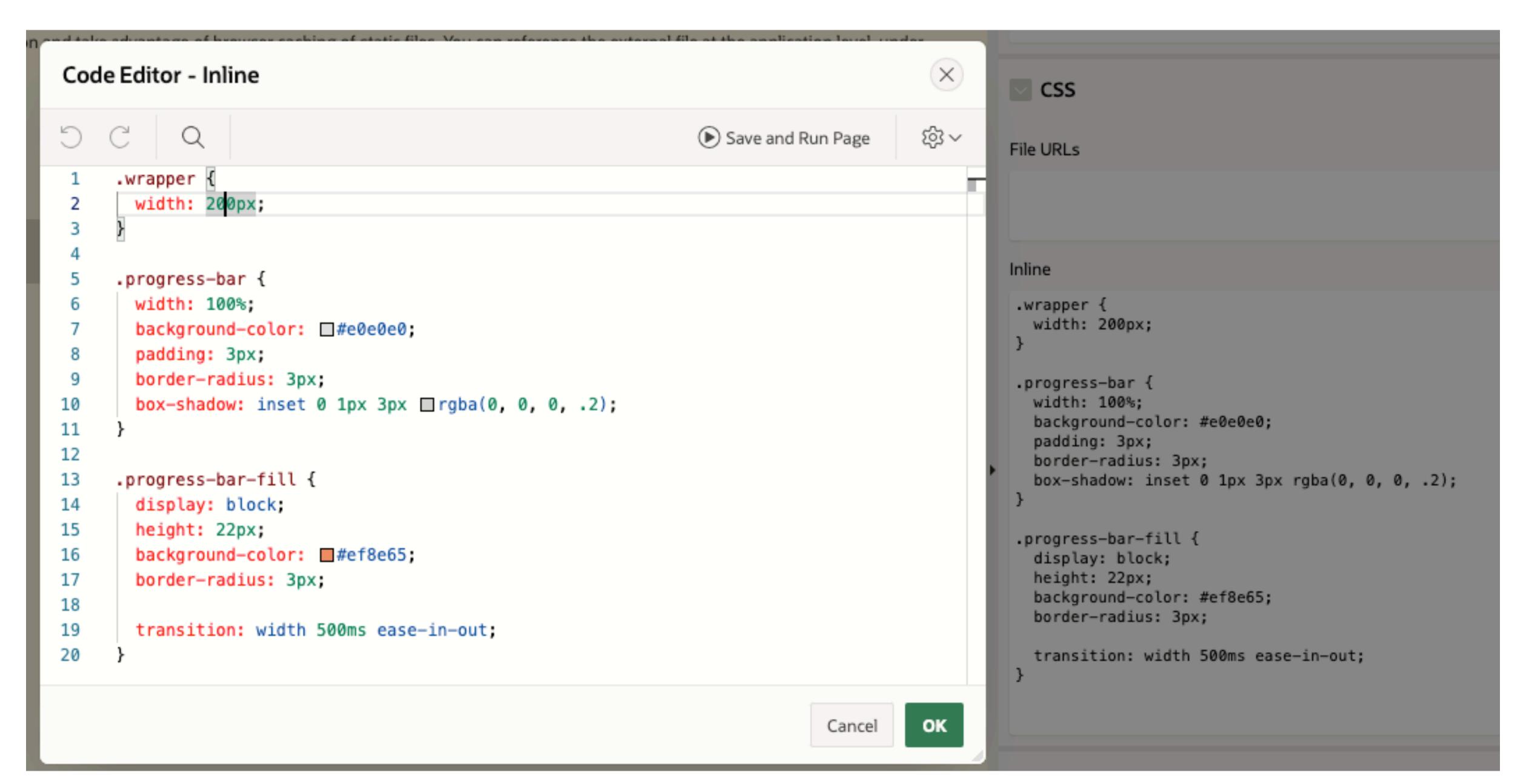
Prati me sreća

Prijavite neprimjerena predviđanja



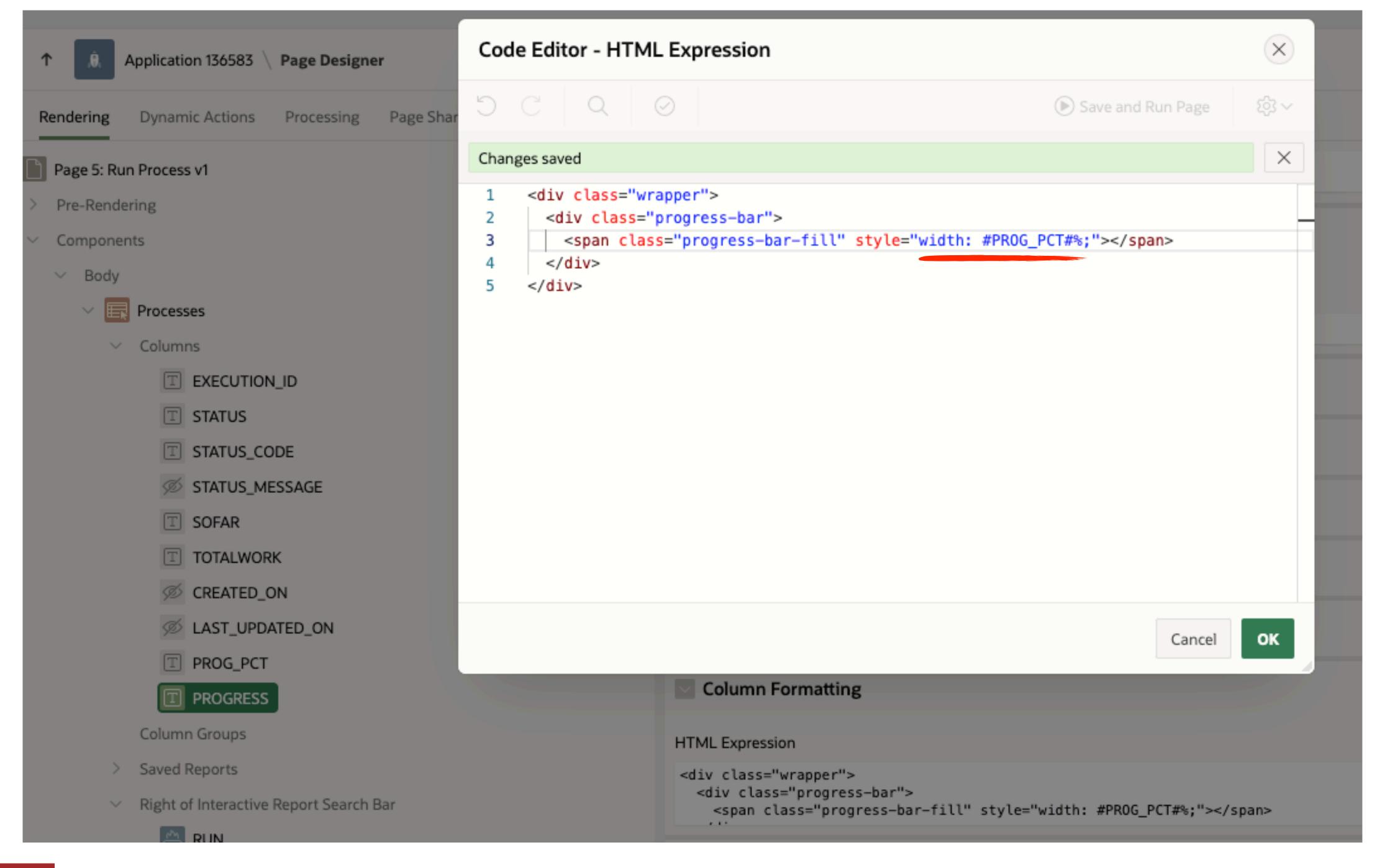
```
    progress.html

                                                                                                                                Raw
   1 <!DOCTYPE html>
       <html lang="pt-BR">
               <head>
                       <meta chatset="UTF-8" />
                       <title>CSS Progress Bar</title>
                       <style>
                               .wrapper {
                                      width: 500px;
  11
                               .progress-bar {
  12
                                      width: 100%;
  13
                                      background-color: #e0e0e0;
  14
                                      padding: 3px;
  15
                                      border-radius: 3px;
  16
                                      box-shadow: inset 0 1px 3px rgba(0, 0, 0, .2);
  17
  18
  19
                               .progress-bar-fill {
  20
                                      display: block;
  21
  22
                                      height: 22px;
                                      background-color: #659cef;
  23
                                      border-radius: 3px;
  24
  25
                                      transition: width 500ms ease-in-out;
  26
  27
                       </style>
  28
  29
               </head>
  30
               <body>
  31
                       <div class="wrapper">
                               <div class="progress-bar">
  33
                                       <span class="progress-bar-fill" style="width: 70%;"></span>
  34
                               </div>
  35
                       </div>
  36
  37
               </body>
  38 </html>
```



```
    progress.html

                                                                                                                                Raw
   1 <!DOCTYPE html>
       <html lang="pt-BR">
               <head>
                       <meta chatset="UTF-8" />
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                                      background-color: #659cef;
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                                       <span class="progress-bar-fill" style="width: 70%;"></span>
  34
                               </div>
  35
                       </div>
  36
  37
               </body>
  38 </html>
```



Demo 2

HTML Expression

OK, but not very reusable

What next? >>> Template Components

Template Components

Plug-in "Light"

Define once, use indefinitely

Focus on using declarative APEX functionalities

Demo 3

Reusable Progress Bar

Other Components



Lists of Values

Plug-ins

Component Settings

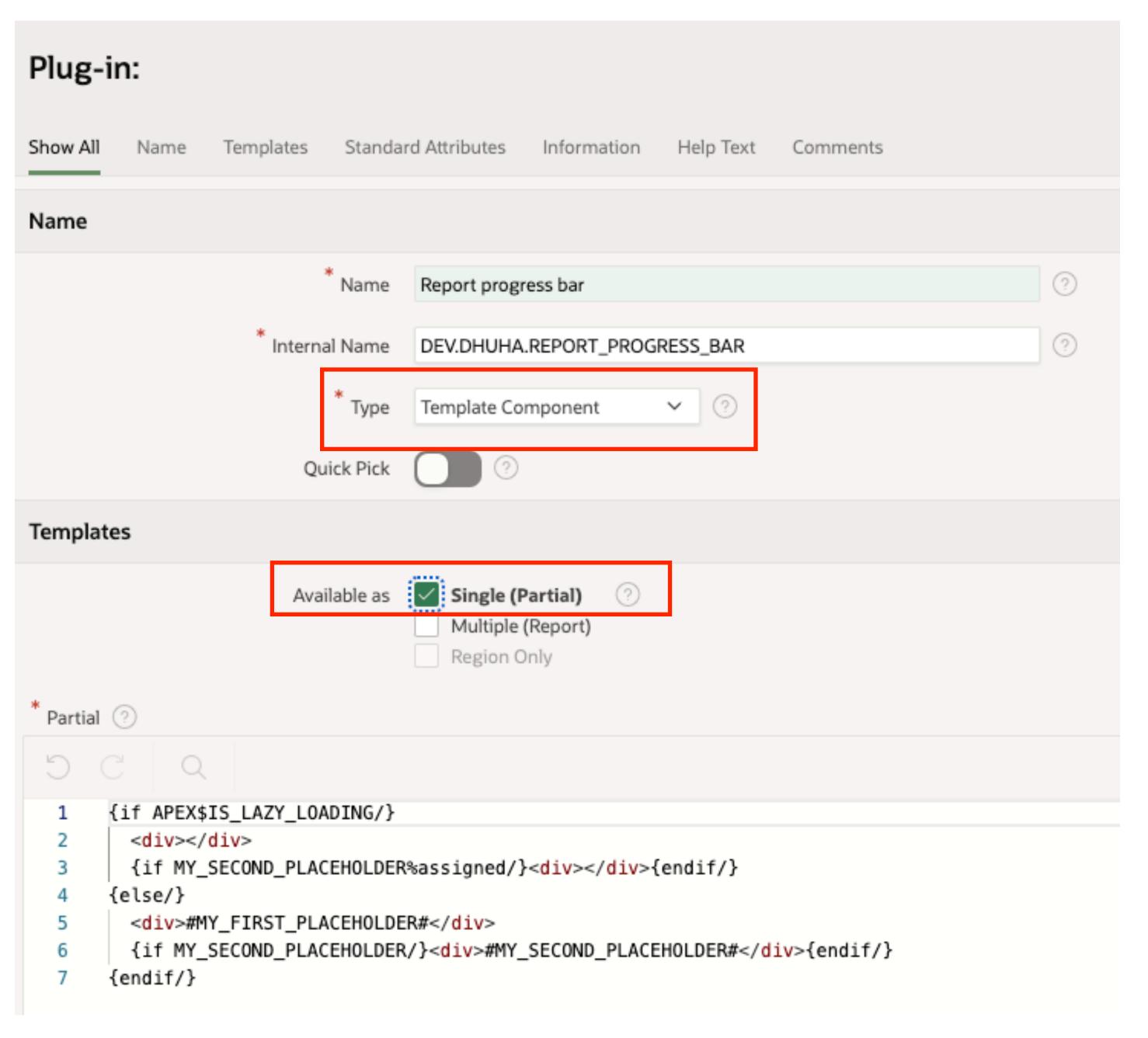
Shortcuts

Map Backgrounds

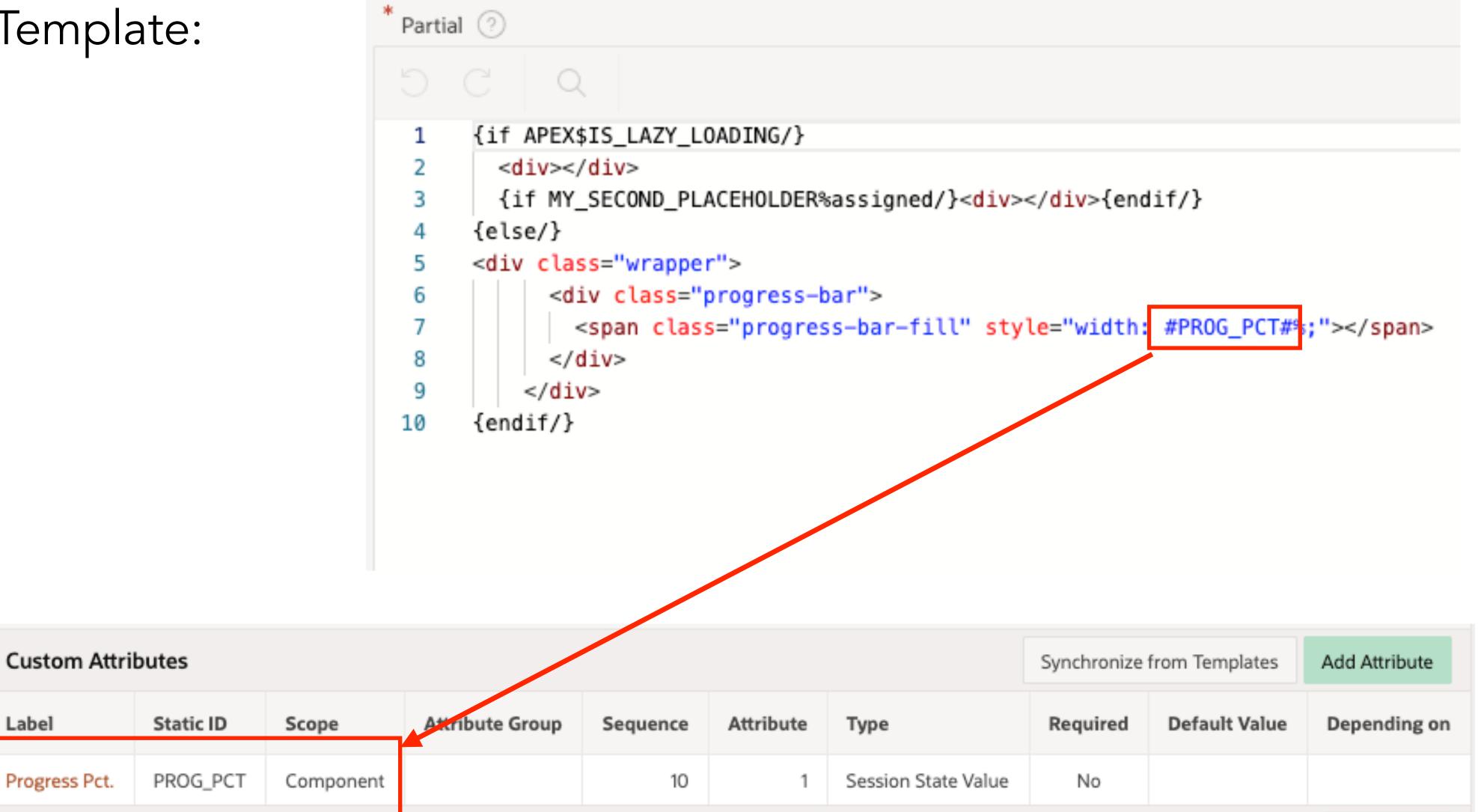
Component Groups

Create

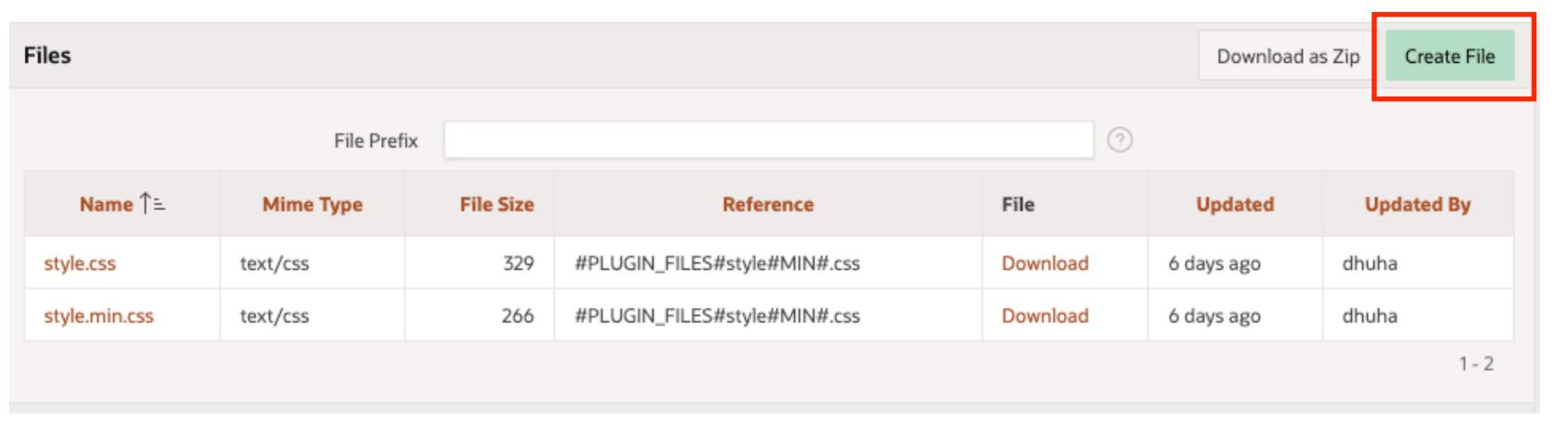
> Type: Template Component

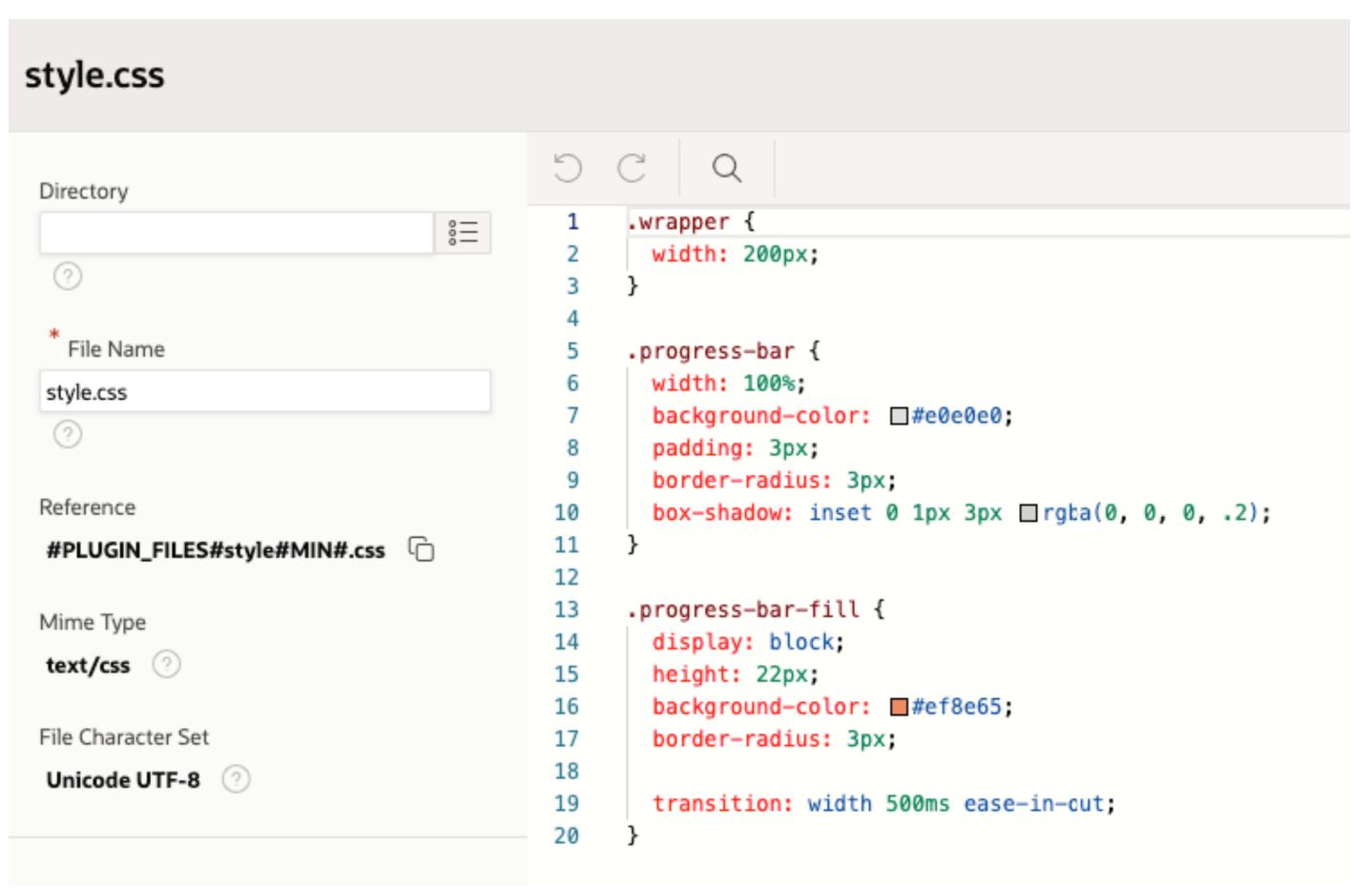


HTML Template:

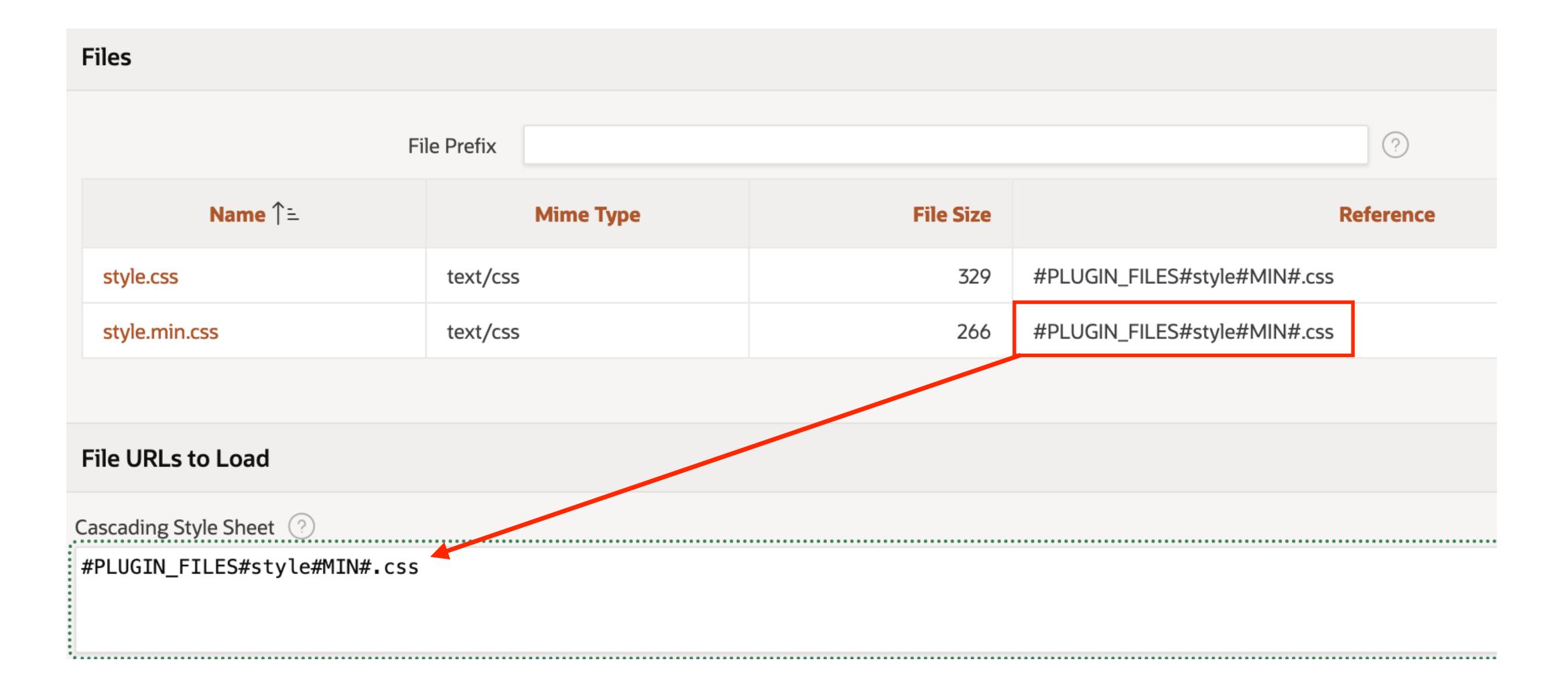


CSS:

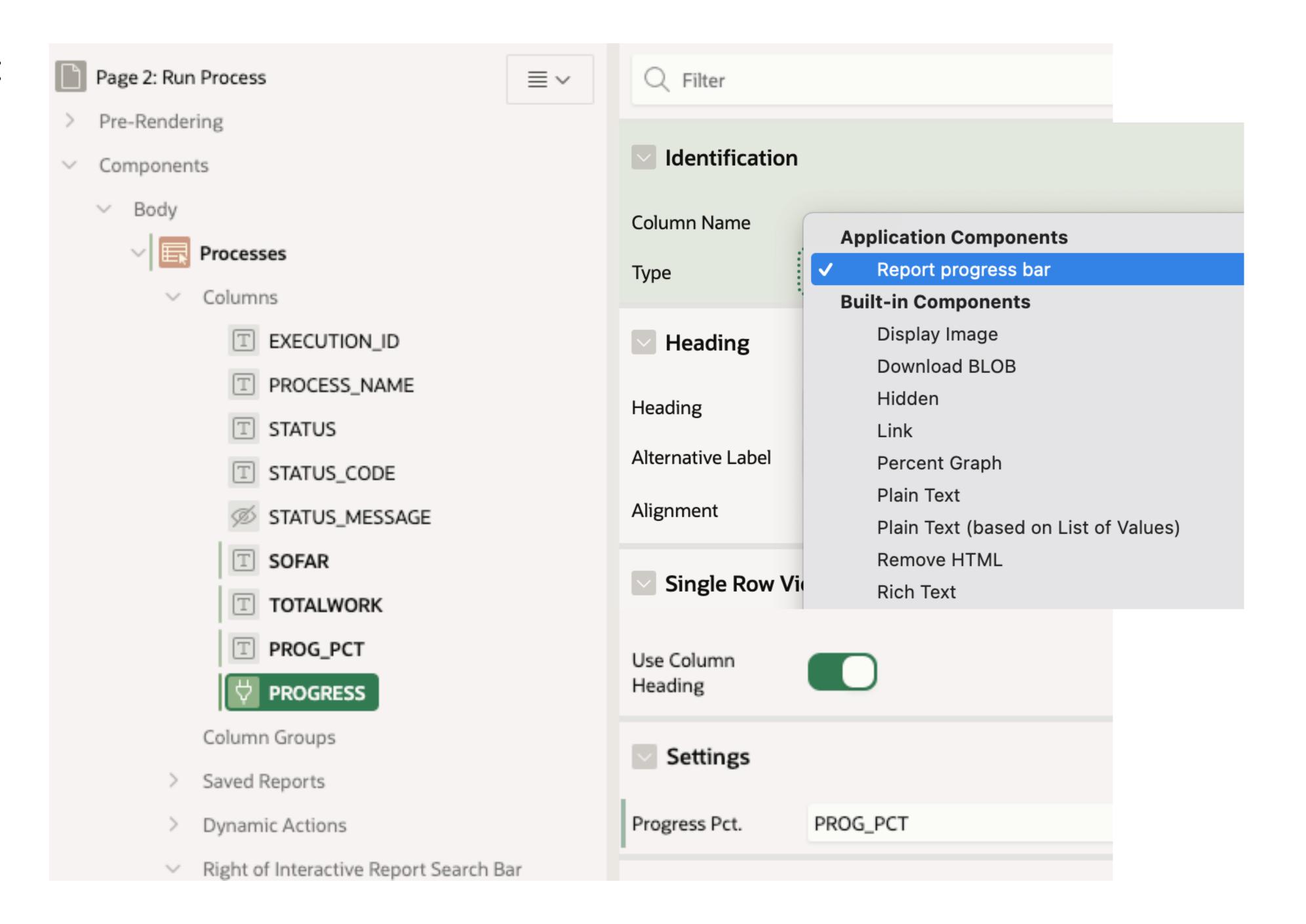




CSS reference:



IR column:



Demo 3

Reusable Progress Bar in action

Bonus Demo - Automatic refresh

```
Region Static ID:
rgnProcess
JS:
//set
var gRepInterval =
  setInterval(function() {
    apex.region("rgnProcess").refresh();
  }, 4000;
//clear
clearInterval (gRepInterval);
```

Download

https://github.com/thehuha/aaapeks-2025



Demo

https://apex.oracle.com/pls/apex/r/dhdevapx/aaapeks25/login



Q&A



Thank you!

