

22.03.2024 | Amersfoort

From Concept to Component: efficient Template Component development

APEX World 2024 | Philipp Hartenfeller

code of change

 **Hyand** by
GOD | MT

GOD III

Two become Hyand Ranked among the top 15 IT service providers in Germany

Kaunas ■ Vilnius

Hamburg ■

Wolfsburg ■
Braunschweig ■

Berlin ■

Dortmund ■
Ratingen ■

Wrocław ■

Cologne ■

Frankfurt ■

Ingolstadt ■

Munich ■

Pune ■

> 900

Employees
(of which 160 in
shoring locations)

> 150

Clients

> 10

Industries

16

Locations

\$ whoami



Philipp Hartenfeller

- Düsseldorf, Germany
- Master IT-Management
- Since 2016 @ MT Hyand
- Senior Consultant – Oracle APEX
- Mostly doing WebDev, DBs and APEX Testing (<https://lct.software>)

Blog: <https://hartenfeller.dev/blog/>



[@phartenfeller](https://twitter.com/phartenfeller)



[@phartenfeller@mastodon.social](https://mstdn.social/@phartenfeller)



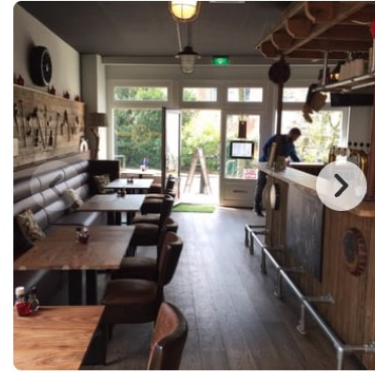
Oracle ACE
Associate

How we developers see data

	A	B	C	D	E	F	G	H
1	Name	Stars	Reviews	Tag 1	Tag 2	Price_rank	opens_at	closes_at
2	The Factory Kitchen	5	1	European		1	08:00	23:00
3	't Nonnetje	4,6	5	Pub	Cafe	2	16:00	02:00
4	Albert's Eten En Drinken	4,3	3	BBQ		2	11:00	01:00

How users want to see data

- No table, engaging lists
- Not always label: value
- Images
- Not opening hours but open/closed until
- Useful styles: font-sizes, bold, colors, icons, backgrounds

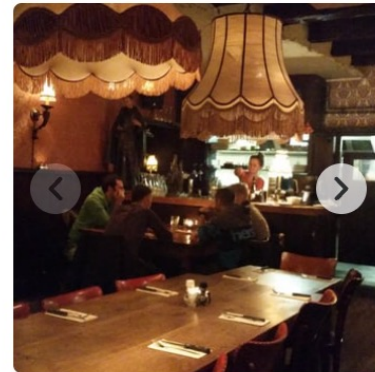


1. The Factory Kitchen

★★★★★ 5.0 (1 review)

Modern-Europäisch

Open until 23:00

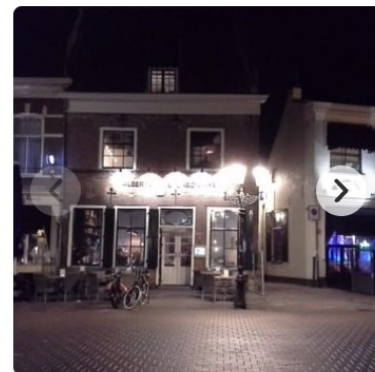


2. 't Nonnetje

★★★★☆ 4.6 (5 reviews)

Veranstaltungsort Pub Café €€

Closed until 16:00



3. Albert's Eten En Drinken

★★★★☆ 4.3 (3 reviews)

BBQ & Barbecue €€

Open until 01:00

“Labels are a last resort” – Adam Wathan & Steve Schoger, Refactoring UI

When presenting data to the user (especially data from the database), it’s easy to fall into the trap of displaying it using a naive *label: value* format.



Name: Erin Lindford
Job Title: Customer Support
Email: erinlindford@example.com
Phone: (555) 765-4321



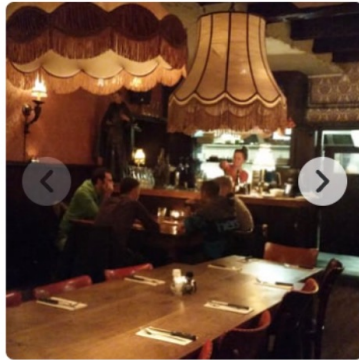
Erin Lindford
Customer Support
erinlindford@example.com
(555) 765-4321

The problem with this approach is that it makes it difficult to present the data with any sort of hierarchy; every piece of data is given equal emphasis.

Template Components make this easy

- Plug-In Type (since 23.1)
- No PL/SQL required
(*just* frontend -> HTML/CSS/JS)
- Easy to use in Apps -> Query and map cols to fields
 - Interactive Report columns (partial)
 - Own region (multiple)
- Sharable as all the other plug-ins

How to approach this



2. 't Nonnetje

★ ★ ★ ★ ★ 4.6 (5 reviews)

Veranstaltungsort Pub Café €€

Closed until 16:00



3. Albert's Eten En Drinken

★ ★ ★ ★ ★ 4.3 (3 reviews)

BBQ & Barbecue €€

Open until 01:00

Describe the list UI from the screenshot in a way a programmer could recreate it without the image. Please go into great detail.

The UI consists of a list of three restaurant entries displayed vertically. Each entry is a card containing various elements, structured as follows:

1. Restaurant Card Layout:

- A rectangle card with a small margin around it to separate it from other cards.
- A thumbnail image of the restaurant's interior at the top, spanning the full width of the card.
- Below the image, the restaurant details are displayed.

2. Restaurant Details Layout:

- Each restaurant has a header with the restaurant number (e.g., "1."), followed by the restaurant's name (e.g., "The Factory Kitchen") in a bold and larger font size.
- To the right of the restaurant name, aligned vertically, is a row of stars representing the rating (e.g., five stars for a 5.0 rating).
- Right beside the stars, in parentheses, is the number of reviews (e.g., "(1 review)").
- Below the restaurant name is the cuisine type (e.g., "Modern-European") in a smaller font size.
- At the bottom of the card, aligned to the left, is the open status (e.g., "Open until 23:00"), in bold text.
- If the restaurant is closed, it says "Closed until HH:MM" instead.

3. Styling:

- The background of the card is white.
- The restaurant's name and open status are in black text.
- The cuisine type is in a lighter shade of grey.
- The stars are red, while the number of reviews is in grey.
- The number indicating the order of the restaurant in the list is significantly larger than the rest of the text.
- Each card appears to cast a light shadow, suggesting slight elevation off the background.

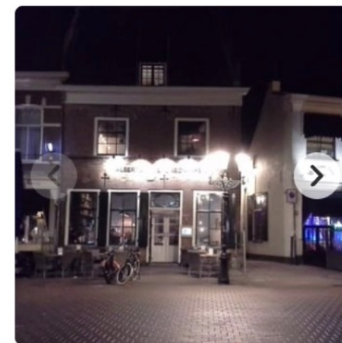
4. Miscellaneous:

- The rating stars appear to be standard five-pointed stars.
- There might be left and right arrow indicators on the thumbnail image, suggesting the ability to browse through more images.
- The price range is indicated by the Euro symbol, repeated one or two times according to the price category (e.g., "€€").

To recreate this, a developer could use a vertical stack layout containing horizontal stack layouts and grid layouts to organize the text and images. They would use a combination of `ImageView`, `TextView`, and custom star-rating views/widgets, along with appropriate styles and drawable resources. The list would be scrollable to accommodate more entries.

A bit off:

- A thumbnail image of the restaurant's interior **at the top, spanning the full width** of the card.
- **Below** the image, the restaurant details are displayed.
- The number indicating the order of the restaurant in the list is **significantly larger than the rest of the text.**



3. Albert's Eten En Drinken

★ ★ ★ ★ ★ 4.3 (3 reviews)

BBQ & Barbecue €€

Open until 01:00

Let the AI do the hard work

Chat GPT:

Generate a complete html template including CSS styles for following list component:



1. The Factory Kitchen ★★★★★ (120 reviews)

Modern-European, Italian

Open until 23:00 €€

Original:



3. Albert's Eten En Drinken

★★★★★ 4.3 (3 reviews)

BBQ & Barbecue €€

Open until 01:00

APEX related?

Generate a complete html template including CSS styles for following list component. **Please use the Oracle APEX templating syntax:**

```
<div class="list-container">
  <!-- APEX loop over restaurants -->
  <div class="restaurant-card">
    <div class="restaurant-image" style="background-image: url('<!--#IMAGE_URL#-->')
    <div class="restaurant-details">
      <div>
        <span class="restaurant-name"><!--#RESTAURANT_NAME#--></span>
        <span class="rating"><!--#RATING_STARS#--></span>
        <span class="reviews">(<!--#NUMBER_OF_REVIEWS#--> reviews)</span>
      </div>
      <div class="cuisine"><!--#CUISINE_TYPE#--></div>
      <div class="status <!--#IF_CLOSED#-->closed"><!--#OPEN_STATUS#--></div>
    </div>
  </div>
</div>
```

Demo

Sharing is caring

- <https://apex.world> has a growing list of Template Components
- Just download and try it out
- Consider giving back to the community, then it is a win-win

apex.world apex.world Feedback Contact Imprint Privacy Philipp Hartenfeller

Home Beginners Post Jobs & Find Developers Meetings & Trainings **Plug-ins** Community

Search Keywords Sort by Added Plug-in type Template Component (36) Developer - Show all - Compatible with APEX Version - Show all - Commercial or Supported - Show all -

Card View Report View

Card View My Plug-ins + Add Plug-in

Dynamic Typed Car... Template Component Plug-in Oracle Tech Solutions Date added: 26-Dec-2023 Last updated: 26-Dec-2023	Responsive Numbe... (👍 1) Template Component Plug-in Timo Herwix Date added: 20-Dec-2023 Last updated: 15-Jan-2024	Multi Purpose Card ... Template Component Plug-in Farooq Ahmad Date added: 25-Nov-2023 Last updated: 25-Nov-2023	QR Contact Save 1.0 (👍 1) Template Component Plug-in Farooq Ahmad Date added: 14-Nov-2023 Last updated: 14-Nov-2023	Pretius Button Build... Template Component Plug-in - Commercially Supported Pretius Date added: 03-Nov-2023 Last updated: 03-Nov-2023
---	--	--	---	---

Thank you!

questions / feedback / ideas?

hello@hartenfeller.dev

<https://hartenfeller.dev>