

Interview Exercises

- UI Business Components (slides 2 - 6)
- API Design (slides 7 - 9)



Break web pages into UI business components

Definitions

- UI business component is a meaningfully grouped UI section that may or may not be re-usable and defines data elements, behavior via actions, ability for other business components to act based on notifications and content / page configuration.
- Instructions
 - Review examples on slides 3 and 4
 - Model pages on slides 5 and 6
 - Break both pages into components (per example on slide 3)
 - Take 1 component from each page to draft component definitions (per example on slide 4)

Example

Page break-up into components

	SIGN_IN_HEADER Component	Your Account Help
<div data-bbox="200 521 392 559">Sign In</div> <div data-bbox="1238 511 1721 549">SIGN_IN Component</div> <p data-bbox="200 589 832 622">What is your e-mail address?</p> <p data-bbox="276 654 736 686">My e-mail address is:</p> <input data-bbox="755 644 1449 691" type="text"/> <p data-bbox="200 732 1072 765">Do you have a password?</p> <p data-bbox="276 796 884 829"><input type="radio"/> No, I am a new customer.</p> <p data-bbox="276 851 846 883"><input checked="" type="radio"/> Yes, I have a password:</p> <input data-bbox="884 836 1369 878" type="text"/> <p data-bbox="884 896 1257 922">Forgot your password?</p> <div data-bbox="258 943 873 998"><p>Sign in using our secure server</p></div>		
<div data-bbox="200 1106 465 1139">Sign In Help</div> <div data-bbox="1114 1115 1754 1153">SIGN_IN_HELP Component</div> <p data-bbox="200 1160 1025 1193">Forgot your password? Get password help.</p> <p data-bbox="200 1215 1174 1248">Has your e-mail address changed? Update it here.</p>		

Example (cont'd)

Component definition

Name:

SIGN_IN

Data:

email_address

customer_relationship_type

password

Actions:

sign_in

retrieve_password

Configuration (content, images, etc.):

sign_in_header

email_address_question_label

email_address_label

password_question_label

new_customer_relationship_label

password_label

retrieve_password_label

sign_in_label

Sign In

SIGN_IN Component

What is your e-mail address?


My e-mail address is:

Do you have a password?

☐ **No, I am a new customer.**

☒ **Yes, I have a password:**

[Forgot your password?](#)

Sign in using our secure server 

Product List

1-16 of 2,470,350 results for "pen"

RESULTS_HEADER_COMPONENT

Choose a Department to sort ▾

Show results for

Office Products >

- Rollerball Pens
- Pens & Pen Refills
- Ballpoint Pens
- Fountain Pens
- Calligraphy Pens
- Ink Pen Refills
- Porous-Point Pens

Health & Personal Care >

- Fine Writing Instruments

Arts, Crafts & Sewing >

- Drawing Pens

Sports & Outdoors >

- Tactical & Duty Equipment
- Tactical Knives
- Camping Safety & Survival Equipment

Industrial & Scientific >

- Science Education Supplies

+ See All 32 Departments

RESULTS_
FILTER_BY_
DEPARTMENTS_
SIDEBAR
COMPONENT



You purchased this item on April 28, 2014

Fisher Space Telescoping Space Pen (TLP)

\$28.37

RESULTS_SIMILAR_PURCHASE COMPONENT



Save 15% on Sarasa Gel Pens by Zebra Pen

Need to restock on pens? Add Sarasa pens to your collection which write smoothly, leave vivid lines, and won't smudge.

RESULTS_SALE COMPONENT

Related Searches: [fountain pen](#), [parker pen](#), [pencil](#).



BIC Round Stic Xtra Life Ball Pen, Medium Point (1.0 mm), Blue, 12-Count by BIC

~~\$4.08~~ **\$1.99**

Get it by **Thursday, Aug 28**

More Buying Choices

\$0.01 new (54 offers)

\$0.01 used (6 offers)

★★★★★ (445)

#1 Best Seller in Rollerball Pens

Product Features

#1 Selling Ball Pen

Office Products: See all 200,431 items

RESULT COMPONENT



Pilot G2 Retractable Premium Gel Ink Roller Ball Pens, Fine Point, Black, 2 Pack (31031) by Pilot

~~\$4.41~~ **\$2.67**

Get it by **Thursday, Aug 28**

More Buying Choices

★★★★★ (607)

Product Features

America's #1 selling Gel Ink Pen - Writes 2X longer than other

RESULT COMPONENT

RESULTS_LIST COMPONENT

Example (cont'd)

Component definition

Name:

RESULT

Data:

photo, result name, brand,
prices, ship date, choices,
stars/reviews, features

Actions:

clicks: on photo, result name,
stars/reviews

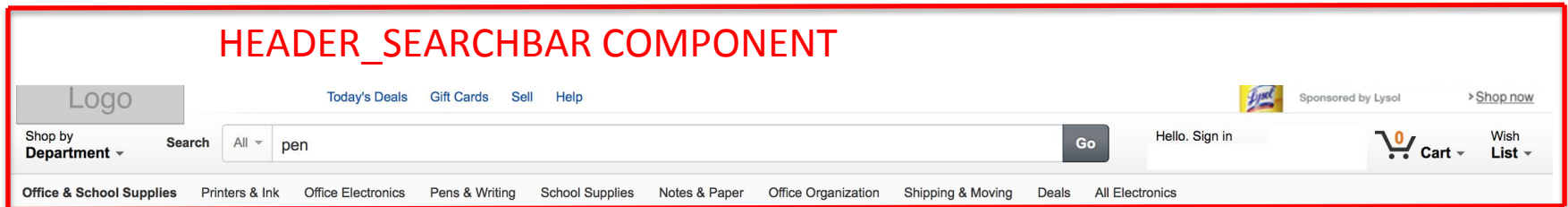
Configuration (content, images,
etc.):

result photo
result name
result brand
result prices
result ship date
result buying choices
result reviews/stars
result features



Product Details

HEADER_SEARCHBAR COMPONENT



PRODUCT_IMAGE COMPONENT



Roll over image to zoom in

BIC Round Stic Xtra Life Ball Pen, Medium Point (1.0 mm), Blue, 12-Count

by BIC

★★★★★ 446 customer reviews

List Price: \$4.98

Price: **\$1.99** & **FREE Shipping** on orders over \$35. [Details](#)

You Save: **\$2.09** (51%)

In Stock.

Ships from and sold by Amazon.com. Gift-wrap available.

Want it tomorrow, Aug. 28? Order within **49 mins** and choose **One-Day Shipping** at checkout. [Details](#)

Color: **Blue**



- Writes 40% longer on average than the leading competitor
- #1 Selling Ball Pen
- Writes First Time, Every Time!®
- Frosted cap and translucent barrel for visible ink supply
- Flexible round barrel for writing comfort

55 new from \$0.01 6 used from \$0.01

PRODUC_DETAILS COMPONENT



Top Back-to-School Deals

Check out our [top deals](#) on [pens](#), [pencils](#), [markers](#), [notebooks](#), [calculators](#), [printers](#), and [more](#). [Shop now](#)

RELATED_SALES COMPONENT

Share    

SOCIAL COMPONENT

Qty: 1

☐ Yes, I want **FREE Two-Day**

CART_COMPONENT



Add to Cart

or

[Sign in](#) to turn on 1-Click ordering.

Add to Wish List

Other Sellers on Amazon

\$1.98

+ Free Shipping

Sold by: Incridideals NYC

Add to Cart

\$2.58

+ Free Shipping

Sold by: MyOfficeInnovations

Add to Cart

\$3.65

& **FREE Shipping** on

orders over \$35.00. [Details](#)

Sold by: Ship and Save

Add to Cart

61 used & new from \$0.01

OTHER_SELLERS_COMPONENT

Customers Who Bought This Item Also Bought

Page 1 of 20

PRODUCT COMPONENT

Example (cont'd)

Component definition

Name:

CART

Data:

quantity (dropdown)

free shipping (checkbox)

Actions:

select quantity (dropdown)

select free shipping (checkbox)

add to cart (button)

sign in (anchor tag)

add to wishlist (button)

Configuration (content, images, etc.):

select quantity (dropdown)

select free shipping (checkbox)

add to cart (button)

sign in (anchor tag)

add to wishlist (button)



API Design for ATM Finder

- Instructions
 - Using screenshots on slides 8 and 9, please define restful API with input and output schema for a simple search
 - Excludes advance search
 - Anything past the search result page is out of scope

Simple Search

Find a Branch or ATM



Search by ZIP code, address, or city and state...

[Advanced Search »](#)

Search



Search Results

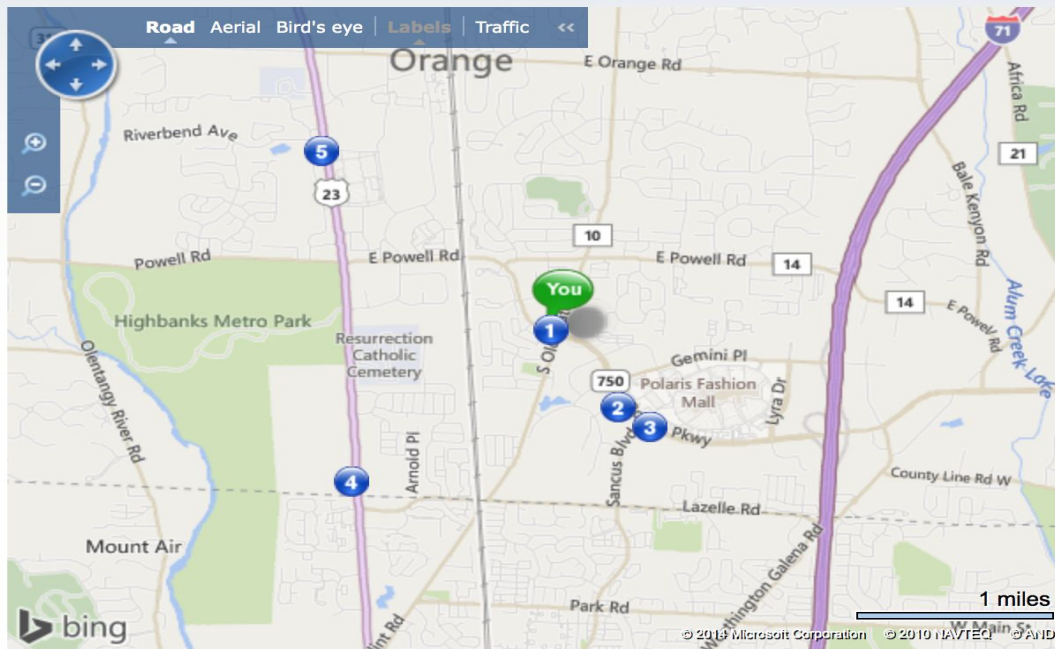
Find a Chase ATM or branch near you: **Polaris Pkwy Lewis Center, OH 43035**

SEARCH

▶ [Advanced search](#)

Search Results :

[Print](#) | [Link](#)



1 CHASE
Speedway
770 Polaris Pkwy
Lewis Center, OH 43035
ATM Only/No Branch

0.09 miles²
▶ [Driving Directions](#)
▶ [Services and Hours](#)

2 CHASE
Polaris
1121 Polaris Pkwy
Columbus, OH 43240
614-217-6284
Branch with 6 ATMs

CHASE PRIVATE CLIENT
0.66 miles²
▶ [Driving Directions](#)
▶ [Services and Hours](#)

3 CHASE
Kroger Polaris
1177 Polaris Pkwy
Columbus, OH 43240
ATM Only/No Branch

0.85 miles²
▶ [Driving Directions](#)
▶ [Services and Hours](#)

4 CHASE
Speedway
10330 N High St
Lewis Center, OH 43035
ATM Only/No Branch

1.33 miles²
▶ [Driving Directions](#)
▶ [Services and Hours](#)

5 CHASE
Lewis Center
8681 Columbus Pike
Lewis Center, OH 43035
740-657-8906
Branch with 2 ATMs

1.51 miles²
▶ [Driving Directions](#)
▶ [Services and Hours](#)

FIND CHASE PHONE NUMBERS

[Chase customer service](#) numbers for new or existing accounts and services.

FIND A CHASE MORTGAGE BANKER



[Find a local mortgage banker](#) near you.
Search by ZIP code or name.

FIND A CHASE PRIVATE CLIENT OFFICE

[Find a Chase Private Client office](#) at the nearest Chase branch.

Now showing results 1 - 5 of 30 for Polaris Pkwy
Lewis Center, OH 43035



[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [Next >](#)

BANK	
id	
NAME	
STREET	
CITY	
STATE	
ZIP_CODE	

BANK_TYPES	
id	
ATM_ONLY	
BRANCH_WITH_ATM	

