

Chat Leap

Full stack - Test Assignment

In this assignment, you need to create a “infinite-scroll directory” application.

Specifications:

- Use React (for Web - Not React Native).
- Should have an amazing experience on mobile with sleek transitions between states. Desktop is not required, but nice to have.
- The user should get the feeling that there is an “endless collection” - the UI does not end.
- You can use any api for the data. Suggestions:
 1. [Pinterest](#)
 2. [Shopstyle](#) - Use api key: **uid4961-26577031-68**
 3. Reddit. [Simplest request:](#)
https://api.reddit.com/search?limit=25&q=sunset&include_facets=true&raw_json=1&type=link&after=lastID
 4. Anything else you can think of with categorized data, images and the image proportions.

The application needs to be:

1. Very performant, and and “Single-page-app”.
2. Support proper routing with urls and load correctly if user refreshes.
3. Nice, clean UX. Transitions between the states - high end animation (doesn't have to be as sleek as pinterest, but make it nice).
4. Support proper caching of data so that going “back” (and other related behaviours) are not sluggish.
5. Not flicker / change positions when images are loading.

This assignment evaluates the following:

1. You can set up a good environment for Front end, correct data flow.
2. Beautiful animations and front end experience.
3. Clean understandable code.
4. Writing a performant application.
5. Use github and break the progress into several commits.
6. Don't re-invent the wheel - Use good libraries where it makes sense.

Please see [this video of Pinterest iOS](#) to understand the desired behaviour:

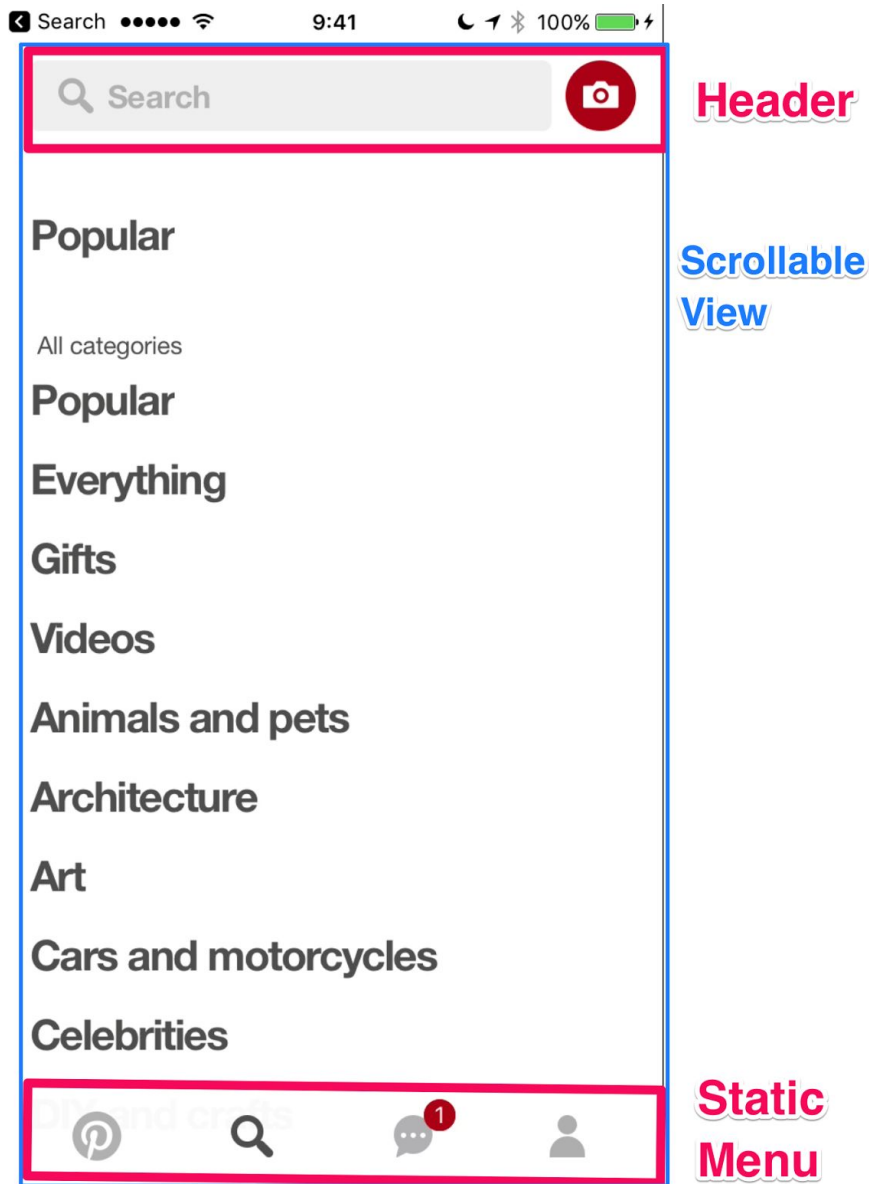
<https://youtu.be/9eFCTZWJeUo>

Screens that need to be implemented:

1. **Application “Skeleton”**

Scrollable view is on the entire screen.

Header and menu are “fixed above them” with a white background (at 90% opacity)



2. Categories:

Just a static list of scrollable items.

Popular

Everything

Gifts

Videos

Animals and pets

Architecture

Art

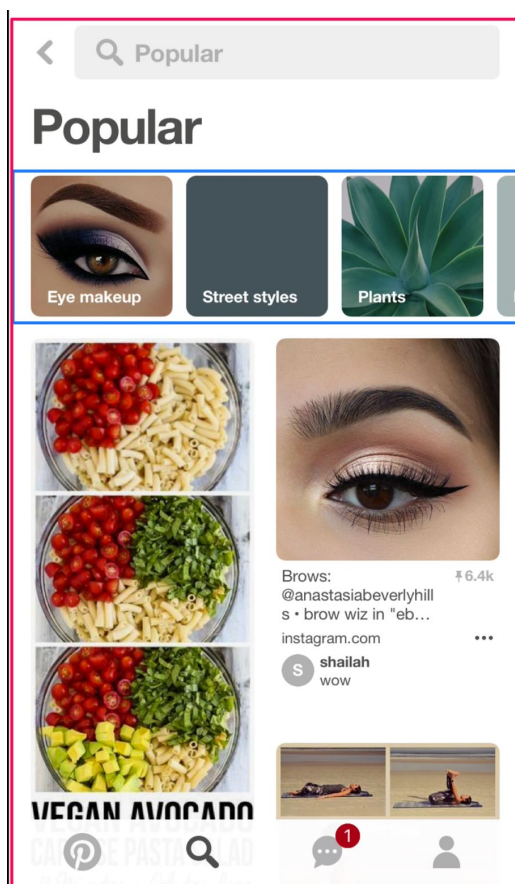
Cars and motorcycles

Celebrities

3. Category View:

Should transition nicely and not flicker when the images load.

Clicking on a subcategory stacks another route with a that subcategory (see video).

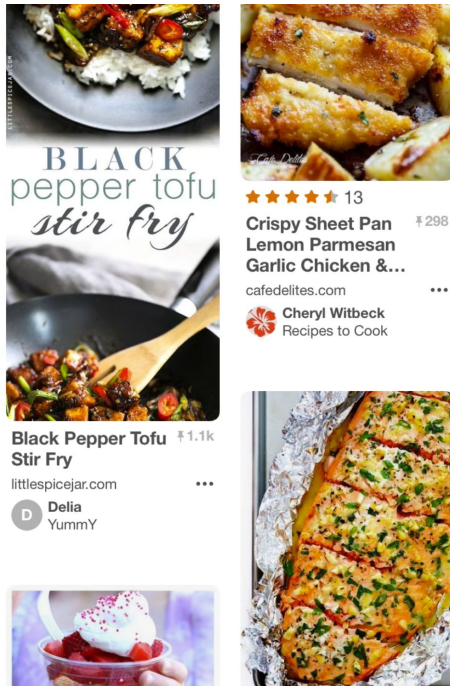


Horizontal
Scrolling
of Sub-
categories

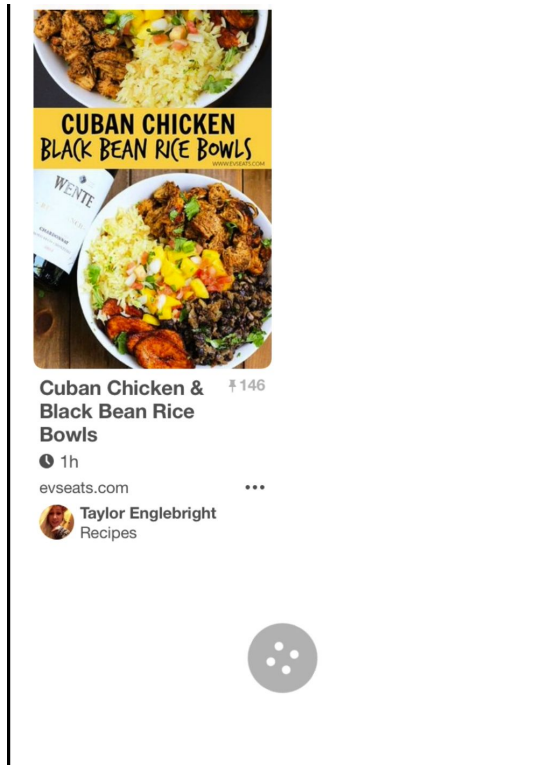
Vertical
Scrolling
of entire
Category
View

4. Infinite Scrolling

Items should be aligned in 2 columns with changing heights (not fixed heights per item). You can add more columns if it makes sense for wide devices.



Show a nice loader when reaching loading more data:

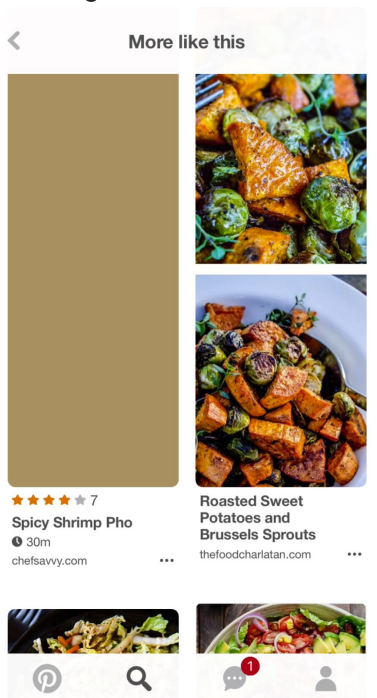


5. Item route

Clicking an item will transition into it's own route (it becomes full width) - just show image and text title below



Scrolling down will show infinite scroll of items related / from that category:



6. Back clicks

Going back should be nicely handled by the router (see video) in terms of transitions and the stack.

There is no need to implement anything beyond the specifications (like other parts of the menu, clicking the Follow / Save button).

Best, Shai Alon