

Panono Front-End Coding Challenge

Develop an image overview application based on the **PANONO** API. The main use case is to allow users to select their favorite images and store the selection in **Web Storage**. Also, simple filtering based on the selected favorites and two views on the data should be implemented. The developer should focus on clean code, well structured style sheets and components and proper test cases. A good eye for design is highly appreciated.

Panono API

GET <http://api3-dev.panono.com/explore>

This endpoint returns Panoramas that were selected for their good quality and interesting motive. It supports paging and contains all needed information for this challenge

Example response

```
{
  "count": COUNT
  "items": {
    ITEMS[0], ...
  }
  "next": NEXT_LINK
}
```

- COUNT** : Amount of returned panoramas
- ITEMS** : Array of panoramas
- NEXT** : A link to the next page

Example panorama

```
{
  "type": "panorama",
  "id": "MKXeV0JnBAuS",
  "self": "https://api3-dev.panono.com/panorama/MKXeV0JnBAuS",
  "data": {
    "image_id": "a22aad62d2ea9dbe847419c41776a845",
    "images": {
      "thumbnails": [
        {
          "height": 350,
          "width": 700,
          "url": "https://tiles.panono.com/5/bcbb43b699ed7d0c1bfa72458f9cd35f/preview_700.jpg",
          "content_type": "image/jpeg"
        },
        {
          "height": 512,
          "width": 1024,
          "url": "https://tiles.panono.com/5/bcbb43b699ed7d0c1bfa72458f9cd35f/preview_1024.jpg",
          "content_type": "image/jpeg"
        },
        {
          "height": 256,
```

```

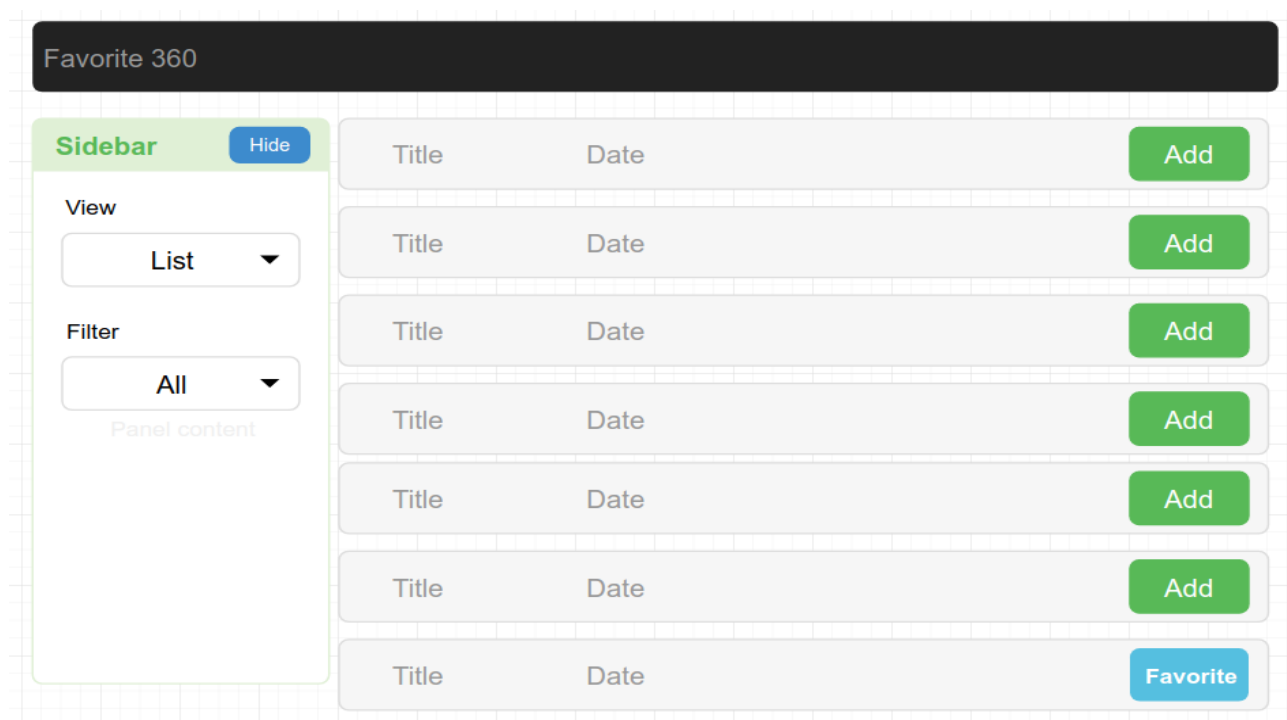
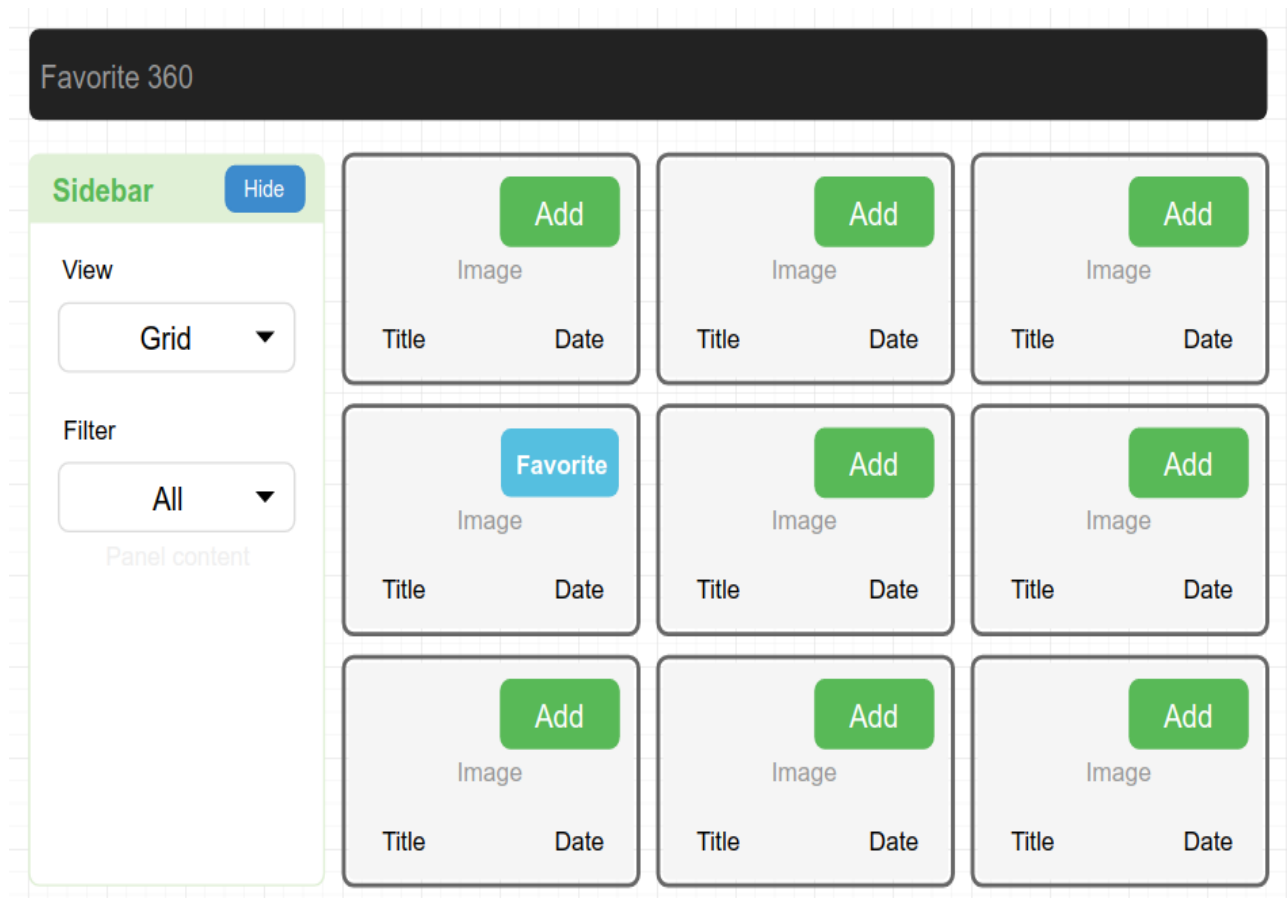
        "width": 512,
        "url": "https://tiles.panono.com/5/bcbb43b699ed7d0c1bfa72458f9cd35f/preview_512.jpg",
        "content_type": "image/jpeg"
    },
    {
        "height": 128,
        "width": 256,
        "url": "https://tiles.panono.com/5/bcbb43b699ed7d0c1bfa72458f9cd35f/preview_256.jpg",
        "content_type": "image/jpeg"
    },
    {
        "height": 64,
        "width": 128,
        "url": "https://tiles.panono.com/5/bcbb43b699ed7d0c1bfa72458f9cd35f/preview_128.jpg",
        "content_type": "image/jpeg"
    },
    {
        "height": 32,
        "width": 64,
        "url": "https://tiles.panono.com/5/bcbb43b699ed7d0c1bfa72458f9cd35f/preview_64.jpg",
        "content_type": "image/jpeg"
    }
],
"cubemaps": [
    {
        "size": 1024,
        "lod": 3,
        "content_type": "image/jpg",
        "format": "tile_{side}_{lod}_{x}_{y}.jpg",
        "base_url": "https://tiles.panono.com/5/bcbb43b699ed7d0c1bfa72458f9cd35f/"
    }
],
"previews": [
    {
        "width": 512,
        "content_type": "image/jpg",
        "url": "https://tiles.panono.com/5/bcbb43b699ed7d0c1bfa72458f9cd35f/strip_512.jpg"
    }
],
"quirectangulars": [

],
"orientation": [
    0.0148239,
    -0.0175793,
    0.5387232,
    0.842169
]
},
"title": "Balkony view Garden Suite The Peninsula Paris",
"description": "",
"created_at": "2017-10-17T17:02:13.000000Z",
"privacy": "public",
"watermark": {
    "show": true
},
"featured_at": "2017-10-20T08:18:01.157057Z",
"published_at": "2017-10-19T15:19:57.719204Z",
"author": {
    "type": "user",
    "id": "0595239f3333f7c38ezcc4dbf6024e762",
    "self": "https://api3-dev.panono.com/u/Looping",
    "data": {
        "username": "Looping",
        "display_name": "Looping"
    }
},
"allow_share": true
}
}

```

Spec

The application should be divided into a top bar, a side bar and a main content area.



Top bar

Should contain the title of the application and a button to toggle the sidebar, which is only shown if the side bar is minimized.

Side bar

The side bar should be on the left side of the application. A button in the header of the side bar should minimize the side bar a make more space for the main content area. In minimized mode, a button should appear in the top bar capable of toggling the side bar on again.

Two drop downs should allow the user to change the view of the main content area and filter the displayed panoramas. The possible values are:

View

- Grid
- List

Filter

- All
- Only Favorites

Main content

The main content area should support to different viewing modes. In Grid mode, the images should be aligned in a grid. It is imported to to supported different window widths. The grid tiles should display the title of the images and date. Also a button should allow the user to add the image to their favorite list. This favorite list should be stored in web storage between sessions. Already added panoramas should allow the user to remove the images from the favorite list with the same button. The background of the grid tiles should display a thumbnail of the panorama in a appropriate size.