Brief

Autodesk Forge comprises of various APIs and services for developers to choose from. On the [Documentation landing page](https://forge.autodesk.com/developer/documentation), we would like to display all the available APIs and services with their respective Intro, Developer’s guide and API reference.

Exercise

Recreate the Documentation landing page as shown in Appendix A using Reactjs with the following requirements:

1. Use React Router to create these pages:
2. /developer/documentation  (this is the landing page you’ll design)
3. /developer/en/api/dummy1/intro  (can be a simple page with a header)
4. /developer/en/api/dummy1/guide (can be a simple page with a header)
5. /developer/en/api/dummy1/reference (can be a simple page with a header)
6. Create a JSON file to contain the list of APIs (title, descriptions, links).
7. Create reusable “Card” component to display the icon, title, description and links of each API.
8. Use CSS to create a drop shadow on Card when hovered over.
9. Use AJAX call to load the json file (no. 3) and populate the API cards.
10. Create responsive layout for Desktop, Tablet and Mobile screens (define the resolutions). Desktop screen with 3 columns, Tablet screen with 2 columns, Mobile screen with 1 column. You are free to use 3rd party open source library such as Bootstrap for their grid system.
11. Create a script to build the bundle.
12. Create a script to run a server and serve the page on your machine.
13. Take a screenshot of your final design in case the bundle fails to run on the day of interview.

You may replace the icons and background patterns with dummy images or colors.

You should not spend more than 3 hours on this exercise.

Bonus Exercise

These are some bonus exercises if you can complete the previous exercises. You don’t have to complete all, just do whichever you can.

1. Use CSS to create a transition effect for the drop shadow.
2. Create a loading effect when the json file is being downloaded. (You may set a delay of 1s)
3. Lazy load only 4 APIs on page load. When user scrolls and reaches the bottom, the page automatically loads 4 more APIs.

Appendix A

Documentation Landing Page

A screenshot of a social media post

Description automatically generated

Card shadow on hover over

A screenshot of a cell phone

Description automatically generated