**Solution documentation**

**Graphic Design Comments:**

* Some APIs were lacking images. So, I created an array of images that I gathered from xd.
* Some News Items are displayed without images because these images are missing from the API I was given.

**Effort and Time Estimation:**

This task is considered moderate in difficulty. It took me some time to recognize, collect, and organize all the resources I may use in this project like APIs, images, etc...

My highest priority was the news component as it was the most challenging component to implement as it contains many functionalities. Like sorting news item display per published date, like filtering news category, get from 2 separate apis and link them together to filter data based on buttons. Second priority was the banner as it was less challenging.

**Sprints:**

* Collecting all the needed resources
* Implementing the Highlights Banner component
* Implemented the Things we Do component
* Implementing the Latest News component
* Adjusting the UI of the solution

**Sprints’ backlog**

Collecting all the needed resources:

* Collecting the images from xd
* Checking the animation
* Checking the APIs content to recognize how to extract the required data

Implementing the ***Highlights Banner*** component

* Divide the main banner components into two sub components
* Create a component to hold the navigation bar
* Create a component to hold the slide show
* Collect the two components into one main component named “Layout”

Implemented the ***Things we Do*** component

* Get the needed images and text from xd
* Divide this component into two divisions, one to contain the title and the brief and one to include the items.
* Adjust the styling of the Items
* Creating dummy API that will be given to the backend team

Implementing the Latest News component

* Get the categories from an API and display them at the top of the component
* Create a subcomponent for the news items and get the items’ data from an API
* Sorting the news items from the most recent to the oldest according to the publish date.
* Add the filtering feature to display news items per category
* Add “All News” button to display the news items of all categories
* Display a “Loading…” message that appears while waiting for the component to render
* Display message to users when there is no news to display
* The title in the news Items is a hyperlink that directs the visitor to news details page.

Adjusting the UI of the solution

* Adjusting the styling sheets to make the UI match the task requirements and make the solution responsive
* Used SASS and CSS for styling

**Steps of work:**

1. The solution is divided into 4 main components.
2. Added the Site Logo, Main Navigation Menu, User profile (login and signup links), and the Language Selector. Then I added hyperlinks on these items to link to their related sections in the Home Page.
3. I implemented the **Highlights Banner** Component.
   1. Using the APIs provided, I could extract the Category, Title and Brief of each item in the banner and display them as per the required design. Regarding the Images, I extracted them from xd.
   2. I also added the “Find out more” and “Play Demo” buttons and added a hyperlink to each button to redirect to an external website.
   3. Finally, I adjusted the styling to add the animation feature of the background.
4. I implemented the **Things we Do** component.
   1. Using the xd provided, I extracted the text and images included in this component.
   2. In order to organize the items I used divisions in the components and started to style each according to the design required
   3. I created an API using getsandbox.com to contain the items.
5. I implemented the **Top News** component.
   1. I extracted the news categories from an API and displayed them as buttons
   2. I extracted the news cards from another API
   3. I linked between the news categories and news cards to filter the cards’ display according to the clicked category button. To accomplish this I used the .filter() method.
   4. I sorted the default display of the news cards to be by the published date in order to display the most recent news first. To accomplish this I used the .sort() method.
   5. I adjusted the date format to be as per the xd format using the Date Format function.
   6. I adjusted the title in the news Items to be a hyperlink that redirects the visitor to the news details page.
   7. I added a condition to filter which news data to be extracted from the API based on the ShowOnHomepage. When the value is “Yes” it means that this news item will appear on the portal and otherwise, it will be discarded.
   8. I added an extra feature which is to display the “Loading----” message when the news component is still rendering
   9. I added a message “There is no news” to be displayed when there is no news to display.
   10. I checked that the solution is compatible with (Safari, Chrome , Edge and Firefox)
6. I implemented the **footer** component as per xd format