**3. Demonstrate your knowledge of front-end, feel free to show off and assume you are**

**building a component within a large project**

My knowledge of front-end includes the translation of data into graphical interface using HTML, CSS and JavaScript, so that people can view and interact with that data. Front end developers need to concentrate on aesthetic user interface of applications and websites to develop and increase their own project architecture. Also, we need to take care of cross browser compatibility and the application should be robust in all resolutions.  
Things to be kept in mind while building a component within a large project:  
Business Objectives, Scope Definition, Quality standards, Tasks Creation, Schedules and deadlines, Team communications, Having skilled Resources, Optimizations and Budget Estimation.

**4. Use the latest native browser features and APIs, don’t worry about cross-browser**

**Compatibility**

With the help of native browser API’s, we do have so many useful features which also increases the web pages/ web application performance.

* Web API is an application programming interface for the web.
* Browser API can extend the functionality of a web browser.  
  BOM and DOM are the two important browser API.
* There were so many Browsers API’s such as fetch API, Canvas API, Fullscreen API, Clipboard API, Payment Request.
* **Natives Web APIs** are Web storage APIs, Fetch API, Clipboard API, Geolocation API, Page visibility API, Resize Observer API, URL API, Vibration API, Full screen API and Lazy Load API.

**5. Please provide a document with notes about your code and any decisions you may**

**have taken, and why**

* Developed a simple HTML page with all the requirements which includes JavaScript and CSS.
* Took a sample image and tried lot of different ways to make the image to be expanded fully on all the screen resolutions without using any CSS. But, unable to make the screen fullest image. So, I have completed the task with the help of CSS by changing the background properties.  
   background-position: center;

background-repeat: no-repeat;

background-size: cover;

* For making the image translucent overlay, the properties used are  
   background: #C04848;

background: linear-gradient(rgb(72,0,72,0.8));

* And optimized the UI as it is suitable in all resolutions as shown below
* When clicked on button it shows an alert showing “Hello World!!!”