Maintaining the data of the patients is very much important for every HealthCare department as it helps them in understanding there patients easily when they come for their routine checkup. Some of the healthcare departments have taken manually updating approach and some have adopted methods of automated process method that requires a database and only few clicks. In these methods, the patients do not have to wait for lengthy periods to view their data due to the data visualization. Every data visualization process involves the patient's data being stored in the database and then there is the process where few calculations and operations are done on the data where this data is converted to exact and comprehensive graphs. The patient with different visual abilities, such as the normal vision, color blindness, and blindness, will be able to view the data. Our portal enables these individuals with different visual abilities by providing them with easy access and accessibility of the data in the portal. The primary objective is to provide a functional and friendly environment for blind users with support of screen readers, audio modalities, keyboard navigable and accessibility-compliant layout. On the other hand, administrators require efficient user management tools for configuring accessibility, robust data management capabilities, features for monitoring and support tools to handle compliance, and a user-friendly interface.

**Normal Users**

Once the user got started with the website, they will have a option to upload a file to visualize the data in visually appealing and data visualization that effectively communicates complex healthcare information. We utilize interactive charts, graphs, and infographics to present data in a concise and accessible manner to the user. The portal offers a variety of options, allowing users to interact with the data, filter relevant information, and explore different perspectives by which user can view data in any manner he desires.

**Color Blind Users**

Once the user got started with the website, they will have a option to upload a file to visualize the data, as the user is a color blind he will have a option to view website in high contrast colors and once they have uploaded the file, important thing to keep in mind is here the input data is only cvs file. Once the file is uploaded, we move on to next page.

We will have different options to visualize the data. Once we select the visualization, the data will be displayed in a selected visual format with high contrast color schemes, distinct patterns or textures in addition to colors. By avoiding reliance solely on color, we ensure that all users can perceive and interpret the visualizations accurately.

**Blind Users**

Once the user got started with the website, they will have a option to upload a file to visualize the data, as the user are blind we implement screen reader compatibility, ensuring that the content is read out loud and clear to the user, once the file is uploaded, they get the data in a visualized format. The user can select different options to view data with assistance from assistive technology and data is read out with assistance from screen reader in different volumes and languages.