DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

FINAL YEAR PROJECT-2

PROJECT GUIDELINE

ChromaSpecX(CVD)

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A COMPLETE GUIDE TO ChromaSpecX EXTENSION

➢ **Introduction:**

ChromaSpecX is a powerful browser extension designed to simulate various types of color vision deficiencies. It provides a visual tool to experience how web content appears to individuals with different color blindness conditions. This guide outlines the steps for installing and using the ChromaSpecX extension on both Google Chrome and Opera browsers.

➢ **Installation Instructions:**

A. For Google Chrome:

1. Download the Extension:

● Visit the [Chrome Web Store](https://chrome.google.com/webstore) and search for "ChromaSpecX".

● Click on the extension in the search results.

● Click the "Add to Chrome" button.

● Confirm the installation by clicking "Add Extension" in the pop-up window.

2. Verify Installation:

● Once installed, the ChromaSpecX icon will appear in the upper-right corner of your Chrome toolbar.

B. FOR OPERA:

1. Enable Chrome Extensions:

● Open Opera and go to `opera://extensions`.

● Enable the "Install Chrome Extensions" option. This will allow you to install extensions from the Chrome Web Store.

2. Download the Extension:

● Visit the [Chrome Web Store](https://chrome.google.com/webstore) and search for "ChromaSpecX".

● Click on the extension in the search results.

● Click the "Add to Chrome" button.
● Confirm the installation by clicking "Add Extension" in the pop-up window.

3. Verify Installation:

● Once installed, the ChromaSpecX icon will appear in the upper-right corner of your Opera toolbar.

➢ **Using the ChromaSpecX Extension:**

1. **Access the Extension**:Click on the ChromaSpecX icon in the browser toolbar to open the extension popup.

2. **Select a Color Vision Deficiency Filter:**

The popup will display several options for different color vision deficiencies, including:

● Achromatomaly (Blue Cone Monochromacy)

● Achromatopsia (Monochromacy)

● Deuteranomaly (Green-Weak)
● Deuteranopia (Green-Blind)
● Protanomaly (Red-Weak)
● Protanopia (Red-Blind)
● Tritanomaly (Blue-Weak)
● Tritanopia (Blue-Blind)

3. **Apply a Filter:**

Click on the radio button next to the desired filter option. The selected filter will be immediately applied to the web page you are currently viewing.

4. **Remove a Filter:**

To remove the applied filter and return to the normal view, click on the "Normal" option (if available) or simply click the ChromaSpecX icon again and select the "Normal" filter.

5. **Adjust Preferences:**

You can adjust your preferences for how filters are applied by using the extension's settings (if available). This may include options for saving your favorite filters or configuring default behaviors.

➢ **Troubleshooting**

1. **Extension Not Appearing**:

● Ensure that the extension is properly installed and enabled. Check your browser's extensions or add-ons page.

2. **Filters Not Applying:**

● Try refreshing the web page or restarting the browser. Ensure that the extension is up-to-date and check for any conflicts with other extensions.

➢ **Conclusion**:

ChromaSpecX provides an intuitive way to simulate and understand color vision deficiencies, enhancing accessibility and awareness. Follow these steps to install and use the extension on Google Chrome and Opera browsers, and start experiencing web content from different color vision perspectives.