HMI EXPERIMENT 7

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Grade :	

AIM

Design the menus for the selected website.

B.1 Tool used to develop application:

Sublime Text Editor:

Sublime Text is a commercial source code editor. It natively supports many programming languages and markup languages. Users can expand its functionality with plugins, typically community-built and maintained under free-software licenses. To facilitate plugins, Sublime Text features a Python API.

HTML:

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser.

CSS:

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

JS:

JavaScript, often abbreviated JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. Over 97% of websites use JavaScript on the client-side for web page behavior, often incorporating third-party libraries

B.2 Choice of User Interface Elements:

<nav>
- In HTML, the <nav> element is used to create navigation links in a page. HTML5was the first to include this element.
- This element can be used by browsers, such as screen readers for impairedpeople, to determine whether to skip the first rendering of this content.

<class>
- The <class> property for an element defines one or more class names. The classproperty is often used to point to a style sheet class.
- It may, however, be used by JavaScript (through the HTML DOM) to alter HTMLcomponents with a specific class .a
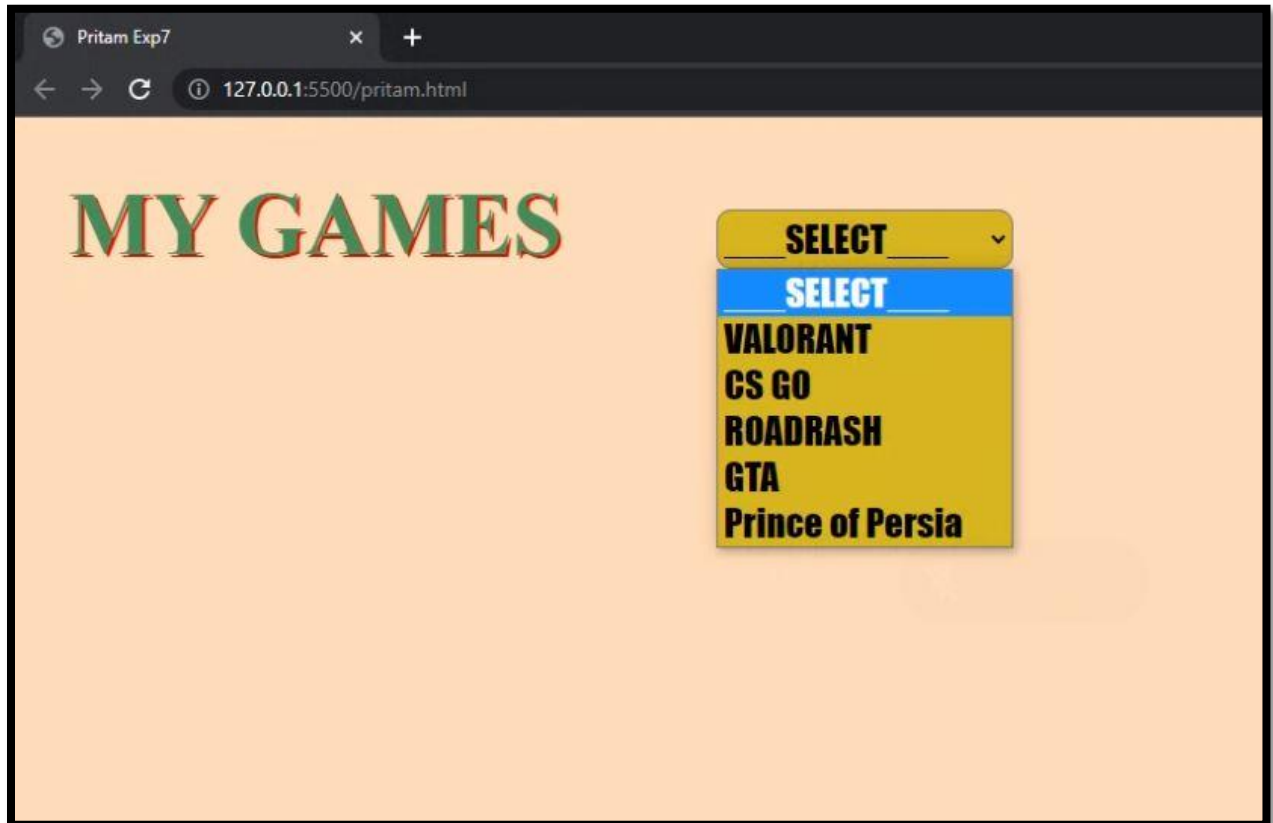
B.3 What is a Menu? Mention the importance of using menus for a user interface designs

- A menu is a set of options presented to the user of a computer application to help the user find information or execute a program function. Menus are common in graphical user interfaces (GUI s) such as Windows or the Mac OS .
- Menus are also employed in some speech recognition programs.
- In a graphical drop-down menu, clicking on an item (text word, button or icon) causes a list of new items to appear below that item. An example can be seen by clicking on one of the text words such as "File" or "Edit" in the horizontal list at the top of the screen in a Windows application.
- Clicking on an item in the menu executes the indicated function or generates another menu. In a variant of the drop-down menu called a fly-out, the list appears to the side of the clicked item.
- A pop-up menu appears above the clicked item when the main list is at the bottom of the window or screen. A menu may occasionally appear with apparent spontaneity at a random location in a window.
  This type of menu, also known as a pop-up, is usually meant to forestall a potential problem or prevent a user from making a mistake. A pop-up menu with only two choices, such as Yes/No, is called a dialog box. Pop-up menus should not be confused with pop-up ads that are used in some commercial websites.
- In a speech-driven system, a menu is presented as a set of audible choices to which the user can respond by pressing a button or speaking aloud. This type of menu is common in telephone answering systems and automated customer-service programs.

- Item selection may have to be carried out several times as the user drills down to reach the desired department or information.

B.4 User Interface Designs:

B.5 Compare the Redesigned and existing websites in detail.

We successfully added a drop-down menu to our website's nav bar because the existing menu bar/website lacked an easy-to-navigate drop-down menu.

Conclusion:

We are able to apply HMI concepts, guidelines, color, vision, and memory-based principles in building interactive user interfaces for any specific application, such as menus, after successfully completing this experiment.