**HTML COMPILER USING PYTHON LANGUAGE**

**COMPILER DESIGING PROJECT REPORT -1**

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**INTRODUCTION:**  
This project is basically the construction the “HTML” compiler using python language. HTML is a language used to create the web pages. It is now becoming the most use ful language as the full stack web development is in demand. We are designing using the most famous and user’s friendly language python. Python has many features for designing a good GUI application and has many inbuilt features. In this report we have mentioned all the keywords and the other tags and other features in the html language.

**DESCRIPTION OF THE FEATURES AND TAGS:**

**HTML DOCUMENTS:**

1. **<!DOCTYPE html>:** this the header of all html documents and every document of html must start with the given header.
2. **<html> </html>:** all the html documents are started with the <html> and must be ended with </html>
3. **<body> </body>:** everything that we want to display on the screen of the website must be written in the body of the document.
4. <p> </p>: id used for the paragraphing purpose.
5. <hr>: it is a horizontal tag.
6. <br>: it is used for line break.

**HTML HEADINGS:**

1. <h1></h1> <h2> </h2><h3></h3> <h4></h4> <h5></h5> <h6></h6>: HTML headings are used to make the website more meaningful and makes the documents more structured. Html contains the headings from h1 to h6 . h1 is most important and h6 is least important.

**HTML FORMATTINGS:**

1. <b>: html bold text
2. <strong>: this is to define the important text.
3. <i> : this is used to change the style to italic text
4. <abbr>: this is used for abbreviation.
5. <!-- --> : this is used for commenting purpose.
6. <u></u>: underline tag

**HTML IMAGES:**

1. <img>: is to insert the image in the web.
2. src: is used in the <img> that describes the path of the image.
3. alt: is used for alternate text for the image

**HTML TABLES:**

1. <table> </table> :it is used for a table
2. <tr> </tr>: used to define the row in the table.
3. <th> </th>: used to define the header cell
4. <td> </td>: used to define the cell.
5. <caption> </caption>: used to define the captions in the table.

**HTML LISTS:**

1. <ul> : it used for unordered list
2. <li> </li>: each list starts with the given tag.
3. <ol> </ol>: it is used for ordered list.
4. <dl> </dl>: defines the description of the list
5. <dt></dt>: defines terms of the description
6. <dd></dd>: describes the terms of the list

**BASIC SYNTAX OR THE MOST USED CODE FORMAT:**

|  |
| --- |
| **Keywords:**  <HTML></HTML>  <head>  <tittle></tittle>  </head>  <body></body>  **Headings:**  <h1></h1> <h2> </h2> <h3> </h3> <h4> </h4> <h5></h5> <h6></h6>  <div>  **Argument: style**   * </div> * <img>   **Arguments: src, width, height, alt**   * </img> * <p> * </p> * <a>   **Arguments: href**   * </a> * <br> //no closing tag * <i></i>//italic * <b></b> //bold * <u></u>//underline   **Table:**  <table>  **Arguments: border, bordercolor, width, height,align**   * <caption> * <tr> bgcolor </tr> * <th></th> * <td>   **Arguments: colspan, rowspan**   * </td> * </caption> * </table>   **Form:**  <form>  <textarea>    **Argument: name, id, cols, rows**,   * </textarea> * <input>   **Arguments: type, name, value, id, required, max-length, checked**   * </input> * <select>   **Arguments: name, id, required, size, multiple**   * </select> * <fieldset><fieldset> * <textarea>   **Argument: rows, cols, name**   * </textarea>   **List:**  <ul>  **Arguments: type**   * </ul> * <li></li> * <ol>   **Arguments: type, start**   * </ol> * <dl> * <dt></dt> * <dd></dd> * </dl> |

**CONCLUSION AND RESULTS:**

We are going to design the compiler using python with the rules that are used to design a compiler. Finally, we have included all the features that we have mentioned. In second report we are going to implement this using the procedure of the Compiler designing subject and we are going to use some GUI’s of python to make and look it better