

CKEditor Guide

Reference

- <https://www.just4fun.kr/post/2>
- <https://github.com/sspatel82/ckeditor5-super-build/tree/main>

STEP 1. Download CKEditor5

The first option is to use online builder at <https://ckeditor.com/ckeditor-5/online-builder/>

- The benefit of the online-builder is that you do not need to install NPM and all other necessary binaries to get what you want.
- The below is the one I acquired at the online builder that does not include premium libraries that have to pay by the cases.
[ckeditor5-40.1.0_2023_12_09.zip](#)
[ckeditor5-40.2.0-2023_12_22i.zip](#) (Excluding Markdown, General HTML Support, Text part language, Style, Word Count, Watchdog)

By the model there are some options basically included as below:

Plugin	Classic	Inline	Balloon	Balloon block	Document	Multi- root	Superbuild
Alignment	✗	✗	✗	✗	✓	✗	✓
Autoformat	✓	✓	✓	✓	✓	✓	✓
AutoImage	✗	✗	✗	✗	✗	✗	✓
Autolink	✓	✓	✓	✓	✓	✓	✓
Base64UploadAdapter	✗	✗	✗	✗	✗	✗	✓
BlockQuote	✓	✓	✓	✓	✓	✓	✓
Bold	✓	✓	✓	✓	✓	✓	✓
CKBox	✓	✓	✓	✓	✓	✓	✓
CKFinder	✓	✓	✓	✓	✓	✓	✓
CloudServices	✓	✓	✓	✓	✓	✓	✓
Code	✗	✗	✗	✗	✗	✗	✓
CodeBlock	✗	✗	✗	✗	✗	✗	✓
Comments	✗	✗	✗	✗	✗	✗	✓
ContentTemplates	✗	✗	✗	✗	✗	✗	✓
DocumentList +	✗	✗	✗	✗	✗	✗	✗
DocumentOutline	✗	✗	✗	✗	✗	✗	✓
EasyImage	✓	✓	✓	✓	✓	✓	✓
Essentials * Includes: <ul style="list-style-type: none"> • Clipboard • Enter/ShiftEnter • SelectAll • Typing • Undo 	✓	✓	✓	✓	✓	✓	✓
ExportPdf	✗	✗	✗	✗	✗	✗	✓
ExportWord	✗	✗	✗	✗	✗	✗	✓
FindAndReplace	✗	✗	✗	✗	✗	✗	✓
FontBackgroundColor, FontColor, FontFamily, FontSize	✗	✗	✗	✗	✓	✗	✓
FormatPainter	✗	✗	✗	✗	✗	✗	✓

GeneralHtmlSupport	✗	✗	✗	✗	✗	✗	✓
Heading	✓	✓	✓	✓	✓	✓	✓
Highlight	✗	✗	✗	✗	✗	✗	✓
HorizontalLine	✗	✗	✗	✗	✗	✗	✓
HtmlComment	✗	✗	✗	✗	✗	✗	✓
HtmlEmbed	✗	✗	✗	✗	✗	✗	✓
Image	✓	✓	✓	✓	✓	✓	✓
ImageCaption	✓	✓	✓	✓	✓	✓	✓
ImageResize	✗	✗	✗	✗	✓	✗	✓
ImageStyle	✓	✓	✓	✓	✓	✓	✓
ImageToolbar	✓	✓	✓	✓	✓	✓	✓
ImageUpload	✓	✓	✓	✓	✓	✓	✓
ImageInsert	✗	✗	✗	✗	✗	✗	✓
ImportWord	✗	✗	✗	✗	✗	✗	✗
Indent	✓	✓	✓	✓	✓	✓	✓
IndentBlock	✗	✗	✗	✗	✓	✗	✓
Italic	✓	✓	✓	✓	✓	✓	✓
Link	✓	✓	✓	✓	✓	✓	✓
LinkImage	✗	✗	✗	✗	✗	✗	✓
List +	✓	✓	✓	✓	✓	✓	✓
ListProperties	✗	✗	✗	✗	✓	✗	✓
MathType	✗	✗	✗	✗	✗	✗	✓
MediaEmbed	✓	✓	✓	✓	✓	✓	✓
Mentions	✗	✗	✗	✗	✗	✗	✓
PageBreak	✗	✗	✗	✗	✗	✗	✓
Pagination	✗	✗	✗	✗	✗	✗	✓
Paragraph *	✓	✓	✓	✓	✓	✓	✓
PasteFromOffice	✓	✓	✓	✓	✓	✓	✓
PasteFromOfficeEnhanced	✗	✗	✗	✗	✗	✗	✓
PictureEditing	✓	✓	✓	✓	✓	✓	✓

	—	—	—	—	—	—	—
PresenceList	✗	✗	✗	✗	✗	✗	✓
RealTimeCollaborativeEditing, RealTimeCollaborativeComments, RealTimeCollaborativeRevisionHistory, RealTimeCollaborativeTrackChanges	✗	✗	✗	✗	✗	✗	✓
RemoveFormat	✗	✗	✗	✗	✗	✗	✓
RevisionHistory	✗	✗	✗	✗	✗	✗	✓
ShowBlocks +	✗	✗	✗	✗	✗	✗	✓
SlashCommand	✗	✗	✗	✗	✗	✗	✓
SpecialCharacters	✗	✗	✗	✗	✗	✗	✓
StandardEditingMode	✗	✗	✗	✗	✗	✗	✓
Strikethrough	✗	✗	✗	✗	✓	✗	✓
Subscript	✗	✗	✗	✗	✗	✗	✓
Superscript	✗	✗	✗	✗	✗	✗	✓
Table, TableToolbar	✓	✓	✓	✓	✓	✓	✓
TableOfContents	✗	✗	✗	✗	✗	✗	✓
TextPartLanguage	✗	✗	✗	✗	✗	✗	✓
TextTransformation	✓	✓	✓	✓	✓	✓	✓
ToDoList	✗	✗	✗	✗	✗	✗	✓
TrackChanges	✗	✗	✗	✗	✗	✗	✓
TrackChangesData	✗	✗	✗	✗	✗	✗	✓
Underline	✗	✗	✗	✗	✓	✗	✓
UploadAdapter	✓	✓	✓	✓	✓	✓	✓
WordCount	✗	✗	✗	✗	✗	✗	✓
WProofreader	✗	✗	✗	✗	✗	✗	✓

Reference link: <https://ckeditor.com/docs/ckeditor5/latest/installation/getting-started/predefined-builds.html>

STEP 2. Implement Code

Below is the simple test code. Note that you should change <the_folder_where_you_saved> to the correct location.

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>CKEditor 5 - Classic editor</title>
  <script src="<the_folder_where_you_saved>/ckeditor.js"></script>
</head>
<body>
  <h1>Classic editor</h1>
  <div id="editor">
    <p>This is some sample content.</p>
  </div>
  <script>
    ClassicEditor
      .create( document.querySelector( '#editor' ) )
      .catch( error => {
        console.error( error );
      } );
  </script>
</body>
</html>

```

Below is including file uploading feature.

index.html

```

<html>
  <head>
    <title>CKEditor 5 ClassicEditor build</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" type="text/css" href="styles.css">
  </head>
  <body>
    <div id="editor">

    </div>
    <script src="ck/ckeditor.js"></script>
    <script>
      ClassicEditor
        .create( document.querySelector( '#editor' ), {
          simpleUpload: {
            // The URL that the images are uploaded to.
            uploadUrl: 'upload.php',
          }
        } )
        .then( editor => {
          window.editor = editor;
        } )
        .catch( err => {
          console.error( err.stack );
        } );
    </script>
  </body>
</html>

```

You will need to have following upload.php to save the necessary files as planned.

upload.php

```

<?php
// Define file upload path
$upload_dir = array(
  'img'=> './',

```

```

);

// Allowed image properties
$imgset = array(
    'maxsize' => 5000,
    'maxwidth' => 4096,
    'maxheight' => 3000,
    'minwidth' => 10,
    'minheight' => 10,
    'type' => array('bmp', 'gif', 'jpg', 'jpeg', 'png'),
);

// If 0, will OVERWRITE the existing file
define('RENAME_F', 1);

$site = '';

/**
 * Set filename
 * If the file exists, and RENAME_F is 1, set "img_name_1"
 *
 * $p = dir-path, $fn=filename to check, $ex=extension $i=index to rename
 */
function setFName($p, $fn, $ex, $i){
    if(RENAME_F ==1 && file_exists($p . $fn . $ex)){
        return setFName($p, F_NAME . '_' . ($i + 1), $ex, ($i + 1));
    }else{
        return $fn . $ex;
    }
}

$re = '';
if(isset($_FILES['upload']) && strlen($_FILES['upload']['name']) > 1) {

    define('F_NAME', preg_replace('/\.(.+?)$/i', '', basename($_FILES['upload']['name'])));

    // Get filename without extension
    $sepxt = explode('.', strtolower($_FILES['upload']['name']));
    $type = end($sepxt);    /** gets extension */

    // Upload directory
    $upload_dir = in_array($type, $imgset['type']) ? $upload_dir['img'] : $upload_dir['audio'];
    $upload_dir = trim($upload_dir, '/') . '/';

    // Validate file type
    if(in_array($type, $imgset['type'])){
        // Image width and height
        list($width, $height) = getimagesize($_FILES['upload']['tmp_name']);

        if(isset($width) && isset($height)) {
            if($width > $imgset['maxwidth'] || $height > $imgset['maxheight']){
                $re .= ' Width x Height = ' . $width . ' x ' . $height . ' >>> The maximum Width x Height must be: ' . $imgset['maxwidth'] . ' x ' . $imgset['maxheight'];
            }

            if($width < $imgset['minwidth'] || $height < $imgset['minheight']){
                $re .= ' Width x Height = ' . $width . ' x ' . $height . ' >>> The minimum Width x Height must be: ' . $imgset['minwidth'] . ' x ' . $imgset['minheight'];
            }

            if($_FILES['upload']['size'] > $imgset['maxsize']*1000){
                $re .= ' >>> Maximum file size must be: ' . $imgset['maxsize'] . ' KB.';
            }
        }
    }else{
        $re .= 'The file: ' . $_FILES['upload']['name'] . ' has not the allowed extension type.';
    }

    // File upload path
    $f_name = setFName($_SERVER['DOCUMENT_ROOT'] . '/' . $upload_dir, F_NAME, ".$type", 0);
    $uploadpath = $upload_dir . $f_name;

```

```

// If no errors, upload the image, else, output the errors
if($re == ''){
    if(move_uploaded_file($_FILES['upload']['tmp_name'], $uploadpath)) {
        $url = $upload_dir . $f_name;
        $msg = F_NAME .'. '. $type .' successfully uploaded! >>> Size: '. number_format($_FILES['upload']
['size']/1024, 2, '.', '') .' KB';
        $response = [
            'url' => $url
        ];
    }else{
        $response = [
            'error' => [
                'message' => 'Unable to upload the file!'
            ]
        ];
    }
}else{
    $response = [
        'error' => [
            'message' => 'Error: '.$re
        ]
    ];
}
}

// Return response in JSON format
echo json_encode($response);
?>

```