

Test Project

[Web Technologies] – Module B(Module 2) Frontend - Photos Slideshow

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Introduction

In this project, a client asks you to create a photo slideshow tool.

User is able to load external photos, or load sample photos into the slideshow. Then, photos appear, stay for several seconds, and disappear, one by one. There may have transition and animation for appearing and disappearing of photos, depending on the theme applied.

The project should be reachable at http://wsXX.worldskills.org/XX_module_e/.

Description of project and tasks

There are different modes for the photo slideshow playing:

- Manual mode with left and right keyboard keypress.
- Auto-playing that photos keep coming in, and loop to the first photo after the last photo shows. The auto-playing interval should be configurable from 1 to 30 seconds with a slider or input field.
- Random playing the photos, which randomly displays a new photo after the configured interval. In this mode, the slideshow runs forever and never ends.

The photo slideshow can also be turned into full screen browsing. The browser toolbar and windows task bar are hidden after fullscreen.

Settings Persistence: All user preferences, including theme selection, playback mode, intervals, and display settings should be automatically saved using localStorage and restored when the application is reopened.

Loading photos

User can load photos by dragging the photo files into the drop area. Then these photos are displayed and played according to the theme animation.

Custom Captions: Users should be able to add custom captions for each image. By default, the system will use the filename-based caption generation described below.

Duplicate Image Removal: The system should automatically detect and remove duplicate images based on file content or filename to prevent the same image from appearing multiple times in the slideshow.

Captions

The caption of the photos is defined by custom user input or automatically generated from the filename. Please capitalize the remove slug of the filename. And the caption doesn't contain a file extension.

For example, given a filename named "hello.jpg", the caption is Hello.

For example, the caption for "hello world.jpg" will be "Hello World".

For example, the caption for the "a-sample-photo.jpg" will be "A Sample Photo".

Configuration

There is a configuration panel. There are three configuration parts in the panel: operating mode, the active theme switching, and the sorting of the photos, playback settings, and display settings.

Switching operating

In the panel, user can switch between 3 operating modes: manual control, auto-playing, random playing.

Switching theme

In the panel, user can switch between A to D theme.

Ordering photos

In this configuration panel, user can order the selected photos by drag and drop the photos.

Photo Shuffle Button: In addition to drag and drop ordering, add a button that automatically shuffles the order of photos randomly.

Playback Settings:

- **Slide Duration:** Configurable interval for auto-playing and random modes (1-30 seconds) with a slider or input field
- **Slide Scrolling Speed:** Adjustable speed for slide transitions and animations
- **Pause/Play Controls:** Manual pause and resume functionality during auto-playing mode with dedicated pause and play buttons

Display Settings:

- **Dark Mode Toggle:** Users can switch between Light Mode and Dark Mode for the entire interface in the slideshow configuration pane

Themes

The first 3 themes are pre-defined, they are Theme A, B, and C. Then you are going to create your own Theme D.

Theme A

Theme A displays the photos and captions directly, without any effects.

Theme B

The active photo goes from left to right to the middle, then the photo goes from the middle to the right to leave the screen.

For the caption, the caption element follows the left-to-right animation, but with a delay of 300ms to start the animation.

Please find the theme-b-demo.mp4 from the media files for reference.

Theme C

The active photo goes from bottom to top to the middle, then the photo goes from middle to the top to leave the screen.

For the caption, the caption is separated into words and each word animates up with a 300ms delay each.

Please find the theme-c-demo.mp4 from the media files for reference.

Theme D

Please create a new them named "Theme D". You can define your photo sliding transition and captions animation. Please make sure they are appealing.

Sample photos

There is an option to load sample photos instead of dragging in custom photos.

Command bar

User can show command bar by pressing CTRL+K or "/". And user can return to normal from command bar dialog by pressing ESC key.

The command bar is usually placed in the middle of the screen. When the command bar is activated, the other part of the web page is dimmed.

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During command bar is presented, different options are displayed under the command bar input.

User can select different options by pressing keyboard up and down.

The selected option should be highlighted for user to know.

When user press ENTER key, the selected option is executed as the command.

There are following commands in the command bar:

- Change to manual control mode
- Change to auto-playing mode
- Change to random playing mode
- Switch to theme A
- Switch to theme B
- Switch to theme C
- Switch to theme D
- Toggle light and dark mode
- Shuffle photos
- Pause slideshow
- Play slideshow

Instructions to the Competitor

CSS for the themes should be well organized into different files for easy maintenance and considered separate of concern.

Other

The project should be reachable at http://wsXX.worldskills.org/XX_module_e/ URL.

If you have put your work in sub-folders, or in other port such as :3000, you may redirect to the destination from the /XX_module_e/ path.

You may provide a README file for executing guide if necessary.

This project will be assessed with either Firefox Developer Edition or Google Chrome web browser.

Marking Summary

	Sub-Criteria	Marks
1	Loading image files	4.00
2	Ordering photos	2.00
3	Slides Operating	4.50
4	Theme	10.00
5	Command Bar	3.50