

Lunch Menu Manager Technical Documentation

Description

This document serves as the technical documentation for the operation and maintenance of the breakfast and lunch menu management system titled Lunch Menu Manager (LMM).

The purpose of Lunch Menu Manager is to provide a centralized menu management solution that will consolidate a number of processes into a single process. The goal is for all of the places where menu data may be required to retrieve that data from the same source.

Administrator view

<div> <div>← → Breakfast Notes Print Share Log out</div> <div> <div>Frontier Jr./Sr. High School</div> <div>May 2015</div> <div>Lunch menu</div> </div> </div>				
Monday	Tuesday	Wednesday	Thursday	Friday
				1 pepperoni calzone strawberry spinach salad baked beans pineapple tidbits or apple
4 chicken nuggets mashed potatoes w/gravy steamed broccoli dinner roll w/butter cup diced peaches or apple	5 hamburger on wg bun garden spinach salad curly fries wg animal crackers 9-12 mixed fruit or apple	6 nacho supreme leaf lettuce tomato wedges celery sticks refried beans pineapple tidbits or apple	7 spicy chicken sandwich green beans cucumber slices graham snack - all applesauce	8 pepperoni pizza tossed salad w/romaine baby carrots breadstick w/marinara - all diced pears or apple
11 chicken wrap southern style sweet potatoes baby carrots spanish rice applesauce	12 big boy burrito mexican corn refried beans wg tortilla chips w/salsa diced pears or apple	13 country style beef patty mashed potatoes w/gravy steamed broccoli dinner roll w/butter cup dices peaches or apple	14 chicken quesadilla sweet potato bites baby carrots cucumber slices biscuit w/butter cup pineapple tidbits or apple	15 spaghetti w/meat sauce garden spinach salad seasoned peas garlic bread mixed fruit or apple
18 bbq rib sandwich roasted lemon garlic broccoli buttered corn cookie - all applesauce	19 turkey sub leaf lettuce tomato slices cultry fries diced peaches or apple	20 chicken noodles mashed potatoes green beans dinner roll w/butter cup orange wedges or apple	21 soft taco w/lettuce diced tomatoes refried beans cookie 9-12 diced pears or apple	22 school picnic cold ham & cheese sandwich baby carrots w/ranch chips strawberry cup variety milk
25 no school	26 salisbury steak mashed potatoes w/gravy green beans dinner roll w/butter cup diced pears or apple	27 asian chicken vegetable fried rice green pepper strips baby carrots applesauce	28 corn dog steamed broccoli curly fries apple oatmeal bar 9-12 strawberries	29 pepperoni calzone strawberry spinach salad baked beans pineapple tidbits or apple

Menu editor

April 2015 — Lunch

← April 16

April 17, 2015

DONE

Friday

April 20 →

Breakfast

Sunrise Flatbread
Fruit or variety fruit juice
Variety milk

Lunch

Spaghetti w/meat sauce
Garden spinach salad
Seasoned peas
Garlic bread
Mixed fruit or apple

Salad

6

13 chicken wrap
southern style sweet
potatoes
baby carrots
spanish rice
applesauce

20 bbq rib sandwich
roasted lemon garlic
broccoli
corn
graham snack - all
mandarin oranges or apple

27 chicken sandwich
fresh broccoli
corn
cookie - all
diced peaches or apple

3

10 pepperoni pizza
tossed salad w/romaine
baby carrots
breadstick w/marinara - all
diced pears or apple
southwest chicken salad

17 spaghetti w/meat sauce
garden spinach salad
seasoned peas
garlic bread
mixed fruit or apple

24 chicken quesadilla
sweet potato bites
baby carrots
cucumber slices
wg biscuit w/butter cup

Requirements

The following are required for LMM to operate:

- PHP-enabled web server; e.g. Internet Information Services (IIS)
- Proper file permissions for web server
- Proper firewall settings to access off-site
- Instructions/training for someone(s) to input the menu data

Features

- Straightforward design that is easy to use
- Provides a centralized source for all menu data
- The suite is independent of website CMS, making potential future changes simpler
- Pre-input menus weeks or even months in advance

- Administrators can generate printable PDFs for monthly menus, nullifying the need for manually-updated Microsoft Publisher menus
- Provides a JSON API for fetching and displaying menu data on various websites and other sources

Design

LMM is written in PHP. It operates as a web application that is completely independent of all other websites which fetch data from it.

The interface is very straightforward. Upon logging in, the administrator is presented with a calendar view of the current month which displays only weekdays. At the top, there are buttons to switch between months, toggle between breakfast and lunch views, and tools that make menu distribution simpler.

To add menu content for a particular day, the administrator simply clicks on the calendar cell for that day. LMM will then present a dialogue overlay box with text input fields for breakfast, lunch, and salad information. Changes are automatically saved as they are input. The administrator can toggle quickly between days with left and right arrow buttons, or they may dismiss the dialogue and select another day from the calendar table.

There are two ways to display data from LMM. The suite provides a JSON API for fetching data. It also generates pages that are intended to be embedded in an `<iframe>` tag.

Setup

LMM should run on just about any web server running PHP. For simplicity, we will assume that IIS 7.5 and Windows Server 2008 are being used. Below are the steps for setting up the web server:

1. Copy the LMM directory to the default web root directory (typically located at `C:\inetpub\wwwroot`) or a subdirectory of it.
2. In the IIS Manager, expand the tree for “Default Website.” The LMM directory should now appear as a subdirectory of “Default Website.”
3. Skip steps 4 through 7 if you are not setting up SMB sharing OR if the LMM directory is placed within a directory that is already shared (e.g. `jshs/elem`).
4. Right click on “Default Website,” and click “Add Virtual Directory.”
5. For the short name, type “lmm” or whatever the subdirectory for the LMM page will be. It should match the physical directory name from above. For example, in `http://frontierschools.cloudns.pw/lmm`, “lmm” is the Virtual Directory’s short name.
6. For the physical path, browse to where you placed the LMM directory, probably somewhere in `C:\inetpub\wwwroot`.
7. Click OK to create the Virtual Directory. The folder icon for the LMM directory should now have a shortcut arrow icon in the corner, indicating that it is a Virtual Directory.
8. Browse to the LMM directory and access the permission settings.
9. Ensure that both the “IIS_IUSRS” and “Authenticated Users” groups have read permissions on the directory and its contents. Create the `db` subdirectory if it does not exist, and ensure that those two groups also have read, write, and modify access on the that subdirectory.
10. If you are not setting up SMB sharing or if the LMM directory is within an already-shared directory, skip steps 11 and 12.
11. Access the LMM directory’s SMB sharing settings.
12. Share the directory with the Administrators group and/or any other desired entities.
13. The page should now be accessible from a web browser.

JSON API

LMM provides a JSON API for fetching menu data. This could be useful for a variety of applications. All of the API functions are within the `api` subdirectory of LMM. For example, the `fetch-month` function is at `api/fetch-month.php` within that directory. The API is documented here in case of any future applications.

Arguments are passed as GET parameters (e.g. `?year=2015&month=1`).

fetch-month

Parameters

<code>year</code>	the four-digit year to fetch
<code>month</code>	the one-or-two-digit month to fetch, 1 through 12; e.g. 1 for January

Returns

A JSON-encoded dictionary is returned. Keys are dates written in the format of `m-d-yyyy` or `mm-dd-yyyy`; in other words, days and months from 1 to 9 will NOT include a prefixing zero.

The values associated with each date key are dictionaries with the following:

<code>breakfast</code>	the day's breakfast choice string
<code>lunch</code>	the day's lunch choice string
<code>salad</code>	the day's salad choice string
<code>timestamp</code>	the UNIX timestamp of when the entry was added/updated

In addition to these date-specific data, the dictionary at the root level includes other values regarding the month as a whole:

<code>topLeft</code>	text to be displayed in the top left corner of a monthly calendar
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fetch-day

Parameters

<code>year</code>	the four-digit year to fetch
<code>month</code>	the one-or-two-digit month to fetch, 1 through 12; e.g. 1 for January
<code>day</code>	the one-or-two-digit day to fetch, 1 through 31

Returns

A JSON-encoded dictionary is returned with the following:

<code>breakfast</code>	the day's breakfast choice string
<code>lunch</code>	the day's lunch choice string
<code>salad</code>	the day's salad choice string
<code>timestamp</code>	the UNIX timestamp of when the entry was added/updated

Embed

In addition to the JSON API, LMM provides pages which can be embed into a website using the `<iframe>` tag. The embed mechanism is currently used by the school wordpress site [here](#) and [here](#). All of the embed pages are within the embed subdirectory of LMM. For example, the weekly embed is at `embed/week.php` within that directory. These pages are designed to adjust appropriately for any desired width.

week

Displays both the breakfast and lunch menus for a five-day period (M-F), starting with Monday of the current week and ending with Friday of the current week. Additionally, a link is displayed to open a full monthly menu.

day

Displays both the breakfast and lunch menus for the current day.

Notes

Passwords

See `verify_login.php` in each of the LMM directories. At this time, the authentication mechanism is hard-coded. It is possible to implement other forms of authentication by expanding on the `verify_login()` function within this file.

Updating

See “Resources” below for the repository location. Before updating LMM, be sure to back up the `db` directory for each instance. After updating, ensure that all file permissions are correct as per the “Setup” section of this document.

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