# SLEEPOVERS FOR LIFE

## Deployment Guide

University of British Columbia Okanagan
COSC 499: Capstone - Summer 2019
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# 1.0 Code Guide

The link to the repository is at [9.0 Repository](#).

All files are included with the repository including PHPMailer, Plupload and the MySQL schema to be used for building the database. PHP 7.2 or higher is required to run the website in order to use the Argon 2i password hashing for creating user accounts. All webpages are found in the pages folder with functionality for all pages being in the src file. The PHPMailer folder contains all the mail functionality but the actual mail class is located in src/mail/folder, this can be moved to clean up the file storage if desired but file paths in the mail.php class will need to be changed to match. The files used for the search bar functionality are located in the catalog/folder on the main page of the repository. The files that are used to set up search bar functionality are search_catalog.php, tsc.php, and tsc_node.php in the src folder. Images used for certain web pages can be found in the img/folder on the main page of the repository.

## 2.0 Workflow

The workflow that our group chose to use to develop this website is a combination of Scrumban and Extreme Programming. The proposed workflow makes use of the Scrumban method with regular group meetings and prioritizing the features that are most needed to be completed while also making use of pair programming provided by Extreme Programming. Trello was used to keep track of features to be implemented but we found that a majority of the tracking was done using our work breakdown structure. For our version control we used a GitHub repository provided by Scott Fazackerley in order to build the website.

## 3.0 Deployment Environment

The website and database were stored on the COSC 499 server provided by Scott Fazackerley for testing purposes. The website had two deployment environments: local and integration. The local environment included each group members' local device with each having a copy of the database used on the website for changes to be tested quickly. The integration environment was the COSC 499 server and allowed for our group to test all functionality together, with the use of Travis CI we were able to constantly integrate the changes that were made to the master branch to the integration environment when features were complete to test their validity.

## 4.0 Testing

- Limited PHPUnit tests exist in the /tests folder in the repository. These mainly test early PHP classes and are not up to date with travis.sql. Most of the my_sql class functions have been tested and passed in the past, but changes have been made since then. The

last Travis tests to pass were on July 23, 2019, when about 40% of total functionality was implemented. The classes included in this testing were:

- is_valid.php
- my_sql.php
- order.php
- login_function.php

- User Testing results are located in the project Final Document. These indicate how users interacted with the website when approximately 80% of functionality was implemented. Additional User testing has not been done since then.

# 5.0 User Manual

5.1 Home
- Navigations links
- Account login / registration

5.2 Store
- View all items in the store
- Search for items by a specific name
- Sort items in the store based on price
- View individual items on a separate page

5.3 Item
- Change item quantity
- Add item to Cart
- View Similar Items

5.4 About
- View Information about Sleepovers and Staff

5.5 Artist
- View list of artists
- Search for artists with search bar
- Sort results by name
- View artist information
- Play artist songs
- View artist event posts
- [Venues] can contact artists for bookings

5.6 Cart
- View all information about the item in the cart
- Update cart item quantity
- Delete item(s) from cart
- Checkout order or go back to shop at the store

5.7 Checkout
- View items being ordered

- Have items shipped or pick up items from Sleepovers
- Add shipping and billing addresses for the order
- Edit cart items and shipping/billing information
- Place the order
- View order number
- View confirmation status of order

5.8 Venue
- View list of venues
- Search for venues with search bar
- Sort results by name
- View venue information
- View venue event posts

5.9 Profile Page
- Users can…
  - Change name
  - Change profile picture
  - Update billing and shipping address
  - Opt in/out of blog post notifications and newsletter
  - Delete their account
  - View their information
- Venues can also…
  - Add, edit, and delete event posts
  - Change their venue name
  - Change their description
- Artists can also…
  - Add, edit, and delete event posts
  - Change their artist name
  - Change their description
  - Add and delete songs

5.10 Mixtape uploader
- Add songs/images/txt files to vinyl order
- Delete files from order
- Update amount being ordered
- Add item to cart

5.11 Blog Page
- View all blog posts
- Sort blog posts by name, description or date published.
- Search for blog posts
- View individual blog posts on a separate page
- Play audio or video files on the blog post page

5.12 Admin Page
- View, search, and sort Orders, Products, Blogposts, and User Accounts
- Filter orders by active/archive/all

- Filter user accounts by artist/venue/admin/staff/all
- Manage order status
- Manage order item status
- Download/delete order item attached media
- Add/edit/delete products
- Add/edit/delete blogposts
- Change user permissions
- Delete users

# 6.0 Installation Details

The following steps should be performed after downloading the entire GitHub repository.

## 6.1 Creating the Database

The Sleepovers website uses a MySQL database to store all information listed on the website. To begin using the website a database must be created using the schema provided in the repository. The src/my_sql/folder contains the files that will be used for creating the database:

- MySQL Schema DDL: "src/my_sql/schema_ddl.sql" contains the database structure that needs to be used for the Sleepovers website database. Import this file into your database in order to start.
- MySQL Test Instance: "src/my_sql/test_instance.sql" was a file used for testing the functionality of the database on our local development environment. This file is not necessary for the functionality of the website but can be a good place to start in order to understand how the website works.
- MySQL Travis: "src/my_sql/travis.sql", this was the file used by Travis CI to create a test database on the server to constantly test the database each time the master branch on the repository was updated.

## 6.2 Credentials

After the database has been created there are certain credential files that need to be updated with the correct information in order to use the files correctly. All of these files can be found in the src/folder on the main page of the repository.

- MySQL Credentials: "src/my_sql_cred.php", this file contains the credentials that PHP will use to gain access to the database of your choice. The file contains four fields that need to be updated in order to allow the website to access the database:
    - mysql_servername: Where the MySQL database is stored, either locally or on different server.
    - mysql_dbname: The name of the database.
    - mysql_username: The username for gaining access to the database.
    - mysql_password: The password for the particular user to access the database.

- PHPMailer Credentials: "src/mail/mail_cred.php", this file contains the email and password used by the website to send emails for a wide range of functionality. In order to allow PHPMailer to send emails these credentials need to be changed (the email and password given will be deleted and unusable).
  - mail_sender_email: This is the email that will be used to send emails using PHPMailer.
  - mail_sender_password: This is the password used for the mail_sender_email account email.
- Web URL: "src/web_info/url.php", this class contains the URL used on emails to redirect users to the Sleepovers page when they click the link.
  - web_url: This is the URL that will be placed in emails to redirect to the Sleepovers page. This will need to be changed to the domain name for the website.

## 6.3 Additional Changes

- Payment API: The website was not built with any payment API but was designed to handle responses sent by an API. The page is setup to handle a confirmation response from an API, if the response is that payment has not been confirmed then the page will be prepared to handle that as well. Comments can be found in "pages/order_result" and "pages/place_order.php" on what changes need to be made.
- Domain Name: The website will not be handed over with a domain name and this will be required for deployment.
- HTTPS: Once a domain name and server is set up, HTTPS certification must be implemented before users can safely and securely connect to the website. If this is not set up, users are more likely liable to have their information stolen.

# 7.0 Missing Features

The list provided below is a list of features that were not implemented due to time constraints or lack of resources:
1. Users, Artists, and Venues will have their email accounts verified before the account is created.
2. Artists and Venues will be able to select days on other Artists venues calendars and send an email notification to them to communicate that they are interested in booking/being booked for that date.
3. Artists and Venues will be listed in alphabetical order on two separate pages where users will have the option to filter by category or availability
4. Customers will be recommended similar artists while viewing an artist
5. MailChimp will be used to sign up users for the Sleepovers newsletter
   - The functionality is ready but there was no code requirements provided to our group on what was needed for this functionality to be fully incorporated to work

with MailChimp. For now, the database contains an additional column on the useraccount table to determine which users want to receive the newsletter.
6. Artists must agree to the legal terms specified by Sleepovers for Life before uploading their music to the database

# 8.0 Missing Tests

- Front end testing was never implemented due to time constraints. Complex javascript functions in src/tsc.js should be a priority in this matter since it handles all searching local client-side searching. Various AJAX and FORM requests should also be tested to see what results the server returns and if there are errors with unexpected inputs.

- PHPUnit tests are out of date and have not been updated since July 23, 2019. Any classes listed in section 4.0 of this document need to be updated, and any classes not included need to have new tests written. travis.sql should also be updated with a broader range of test data. A list of all the classes that need to be tested or have their testing updated with PHPUnit are:

  - address.php
  - artist.php
  - blogpost.php
  - cart_item.php
  - cart.php
  - eventpost.php
  - general_item.php
  - is_valid.php
  - my_sql.php
  - order_item.php
  - order.php
  - page_manager.php
  - product.php
  - retriever.php
  - search_catalog.php
  - song.php
  - tsc_node.php
  - tsc.php
  - user.php
  - venue.php

- User testing has not been done for approximately the last 20% of website functionality. This would be recommended to do before deployment, since there have been new features implemented that have never been user tested.

# 9.0 Repository

https://github.com/ubco-cosc499-summer2019/group-1-sleepovers-web-portal-cosc499-team1-sleepovers