OnlyPlans - Smart Calendar Application

A modern, intelligent calendar system with Intelligent time slot suggestions and conflict detection.

Features

- **Smart Event Scheduling**: Create, edit, and delete events with color coding
- **Intelligent Suggestions**: algorithm finds optimal time slots based on:
    - Existing calendar conflicts
    - Preferred time windows (6 AM - 10 PM)
    - Quality scoring (excellent/good/fair/poor)
    - 6 date range options (today, tomorrow, this week, next week, this month, next month)
- **Instant Event Creation**: One-click event creation from suggested slots
- **Visual Calendar Interface**: FullCalendar integration with drag-and-drop
- **Conflict Detection**: Automatic overlap detection prevents double-booking
- **Modern UI**: Gradient design with responsive layout

📋 Manual Installation (For Windows)

Steps: (For Windows)

1. **Clone/Download this repository**

2. install MMAMP (https://www.mamp.info/en/windows/)

3. Setup MMAMP

    - once installation process is complete
    - you will have to first set up the ports you need.
        - This is a step by step guide on what to do
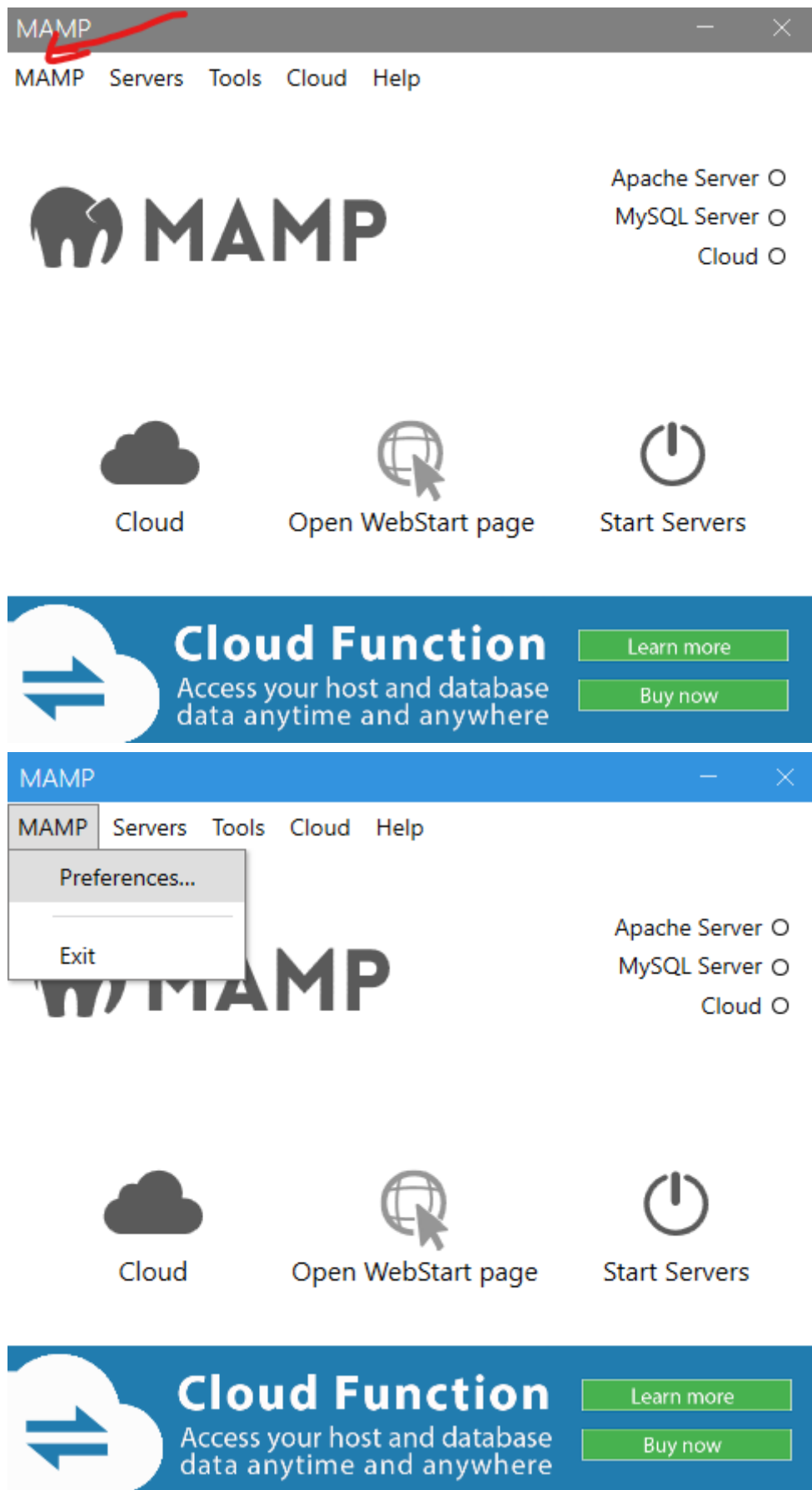
- Set the Port numbers to this

Start/Stop **Ports** PHP Server Cloud

Apache Port: 8888   (2-65535)

Nginx Port: 8888   (2-65535)

MySQL Port: 8889   (1024-65535)

Set Web & MySQL ports to: MAMP default   80 & 3306

OK   CANCEL

- ■
  - ■ Here you would put in the path to the github repo

PREFERENCES   ✕

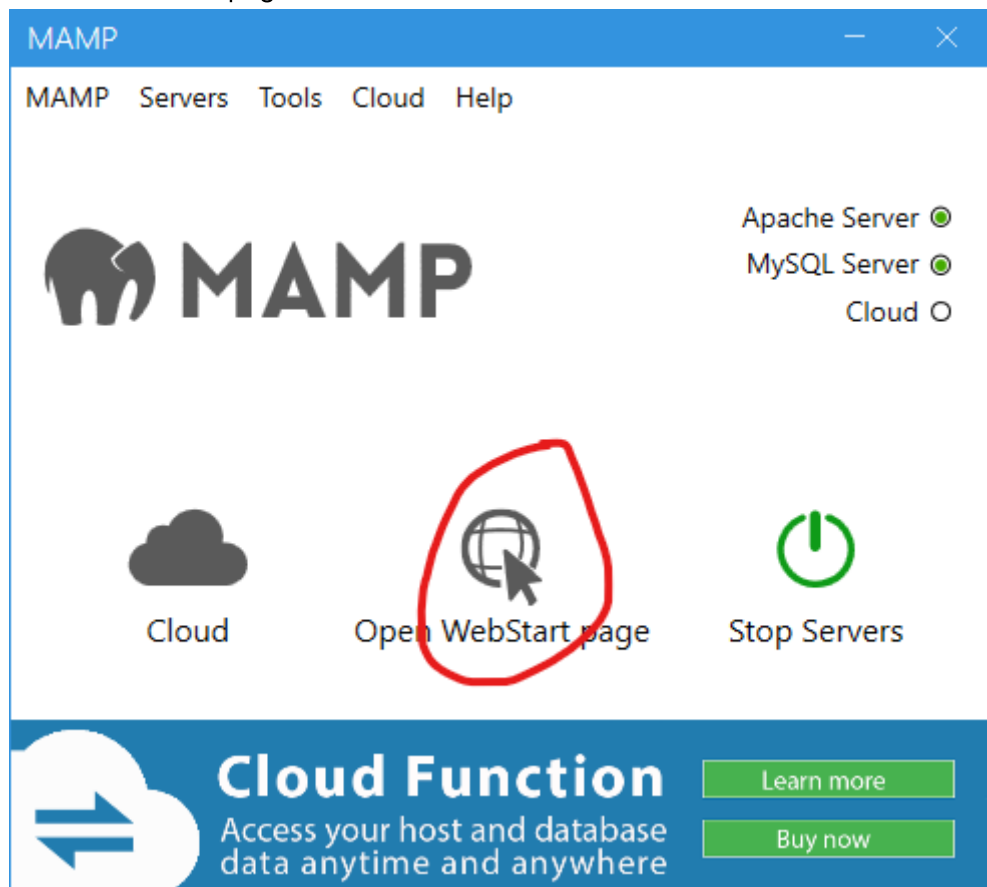Start/Stop Ports PHP **Server** Cloud

Web server: ● Apache   ○ Nginx

Document Root:

C:\Users\Acadia University\Desktop\Sa   Select...   Open

Database server: MySQL 5.7.24
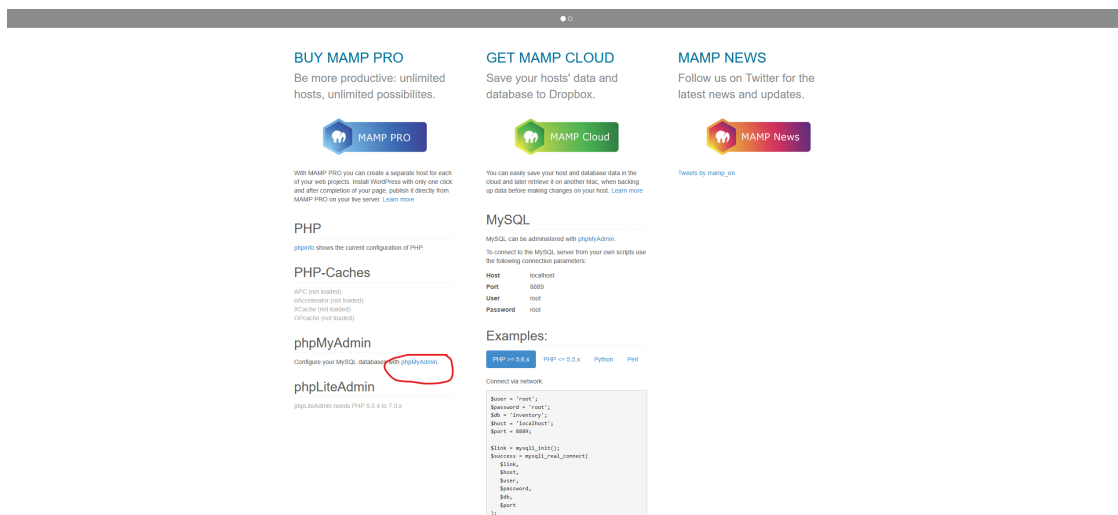
OK   CANCEL

- ■
- ■ You start the server now
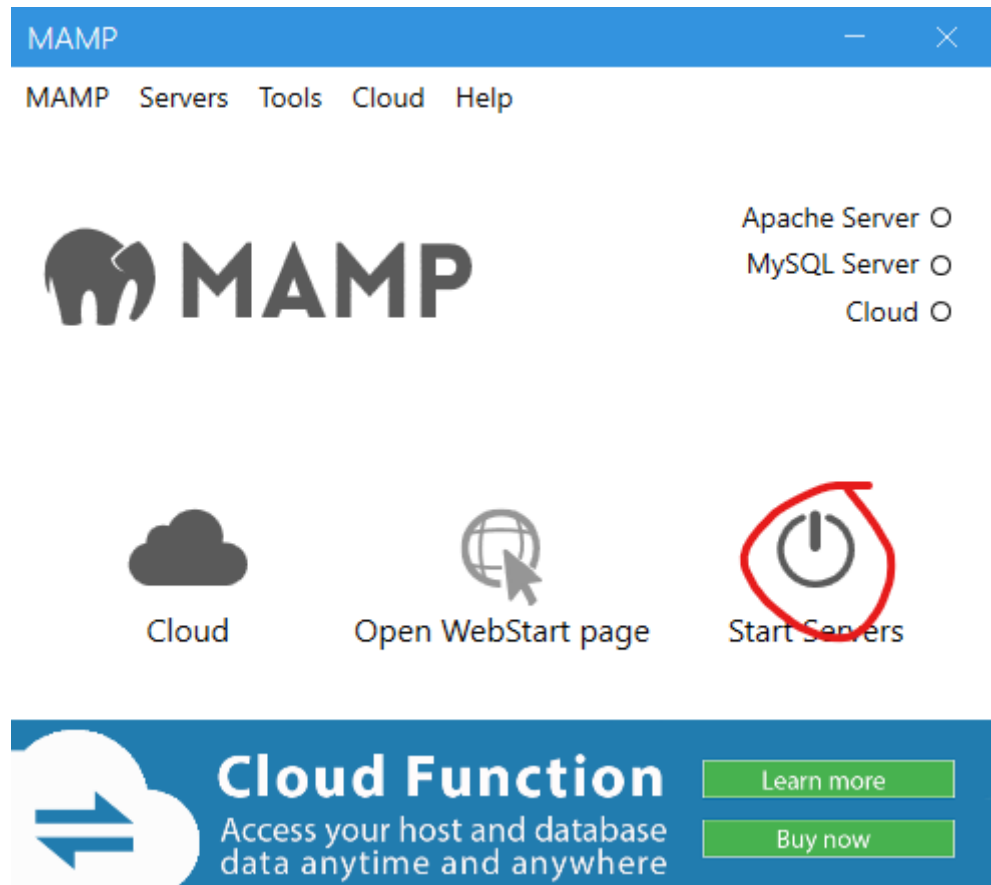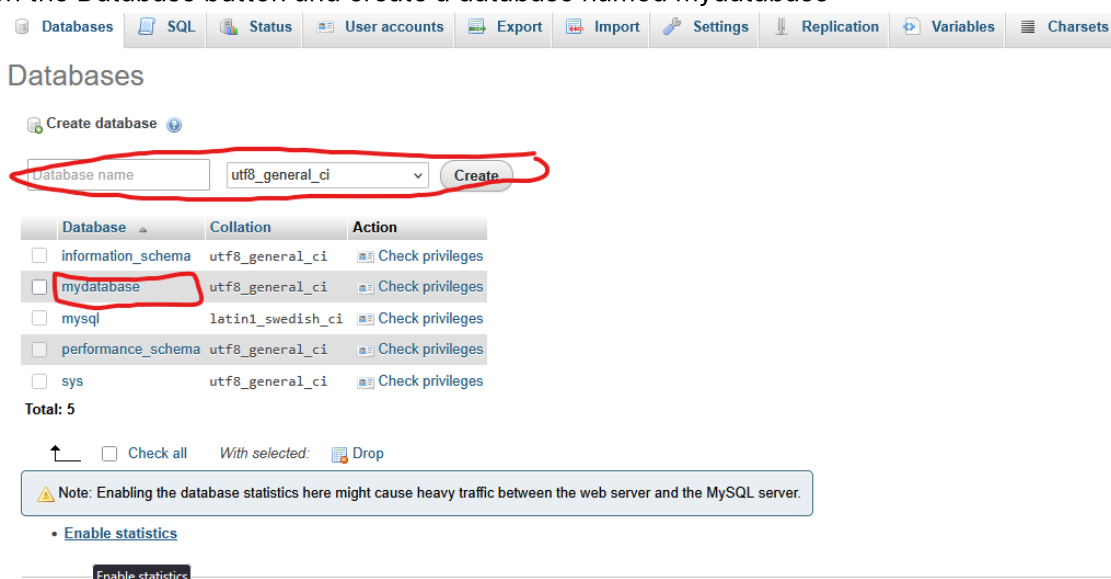
- ■ We start the Webpage server
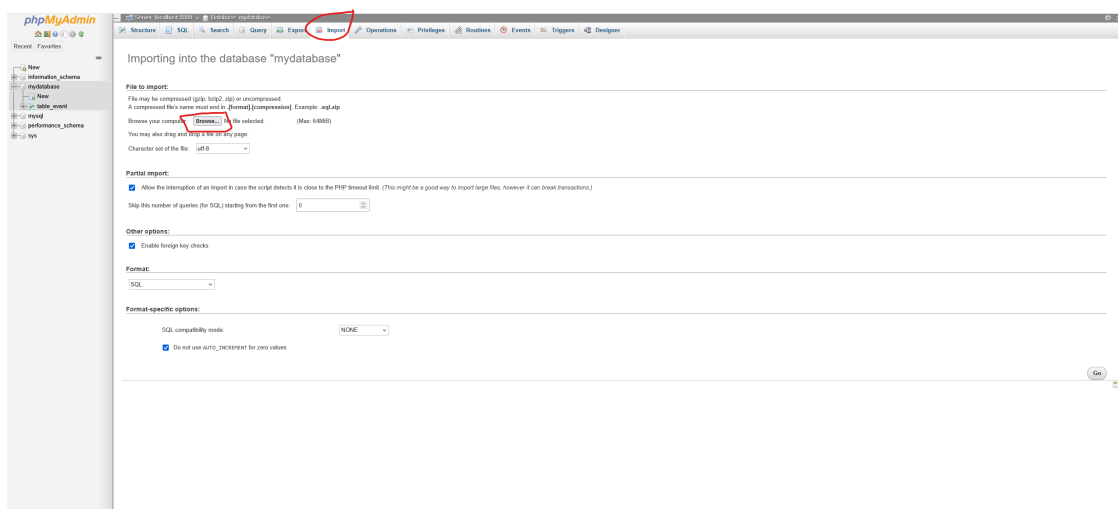

4. Setup Database

- ○ You will then go over phpMyadmin and import the **mydatabase.sql** file to set up the database

- ▪
  - ○ Click on the Database button and create a database named mydatabase

  - ▪
  - ○ Once Created, You need to click the database button on the header, select the import section and then click the browse button

  - ▪
  - ○ Before you import the **mydatabase.sql** file, you need to first change some code to match the below image (*for some reason this is what needs to be changed in order to work on Windows*) and save the file --> (utf8mb4_unicode_ci)

```
-- ------------------------------------------------

--
-- Table structure for table `table_event`
--

CREATE TABLE `table_event` (
  `id` int NOT NULL,
  `title` varchar(100) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL,
  `start_date` date NOT NULL,
  `end_date` date NOT NULL,
  `start_time` time NOT NULL,
  `end_time` time NOT NULL,
  `created_at` date DEFAULT NULL,
  `color` varchar(7) NOT NULL DEFAULT '#3788d8'
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;

--
-- Dumping data for table `table_event`
--
```

- You then click the browse button, locate the file, import to the database & select go.
- Finally to get the application to show up make sure the port is set to the number below (Open up the **connection.php** file) & save the file:

```php
connection.php
<?php
$server = 'localhost';
$port = 8889;
$username = 'root';
$password = 'root';
$database = 'mydatabase';

$connection = mysqli_connect($server, $username, $password, $database, $port);
if (!$connection) {
    // For AJAX requests, return JSON error instead of dying
    if (!empty($_SERVER['HTTP_X_REQUESTED_WITH']) && strtolower($_SERVER['HTTP_X_REQUESTED_WITH']) == 'xmlhttprequest') {
        header('Content-Type: application/json');
        echo json_encode(['error' => true, 'message' => 'Database connection failed: ' . mysqli_connect_error()]);
        exit;
    }
    die('Connection failed: ' . mysqli_connect_error());
}

$select_db = mysqli_select_db($connection, $database);
if(!$select_db)
{
    // For AJAX requests, return JSON error
    if (!empty($_SERVER['HTTP_X_REQUESTED_WITH']) && strtolower($_SERVER['HTTP_X_REQUESTED_WITH']) == 'xmlhttprequest') {
        header('Content-Type: application/json');
        echo json_encode(['error' => true, 'message' => 'Database selection failed']);
        exit;
    }
    echo("connection terminated");
```

5. Finally navigate to localhost:8888 and the application should load up.

How to Use

Creating Events:

1. **From Calendar:**

   - Click any date on calendar
   - Auto-redirects to pre-filled form
   - Choose color, set times
   - Click "Create Event"

2. **From Smart Suggestions:**

   - Click "Smart Suggestions" button
   - Select duration (0.5-4 hours)
   - Choose date range
   - Pick time window
   - Click "Find Smart Suggestions"

- Select any suggested slot → Instant creation!

Editing Events:

- Click existing event
- Modify details in modal
- Save changes

Deleting Events:

- Click event → Delete button
- Or use bulk delete from menu

Smart Suggestions Features:

- **Quality Scoring**: Excellent (100pts), Good (75pts), Fair (50pts)
- **Conflict Detection**: Prevents overlapping events
- **Time Windows**: Morning, afternoon, evening, or all day
- **Date Ranges**: Today to next month options
- **Uniqueness**: No duplicate slots shown

Version 1.0 – November 2025