

# Course Mapping Application

## Overview

This application helps Miami University students efficiently view and plan their course schedules. Users (for now) can upload an Excel file containing their course data, view buttons for matching courses, and click these buttons to plot course locations on a map and get directions from their current location.

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## Features

- Upload an Excel file with course information.
- Match courses from the file with Canvas course data.
- Display course-specific buttons for easy interaction.
- Plot course locations on a map.
- View directions to course locations from your current location.

## How to Use

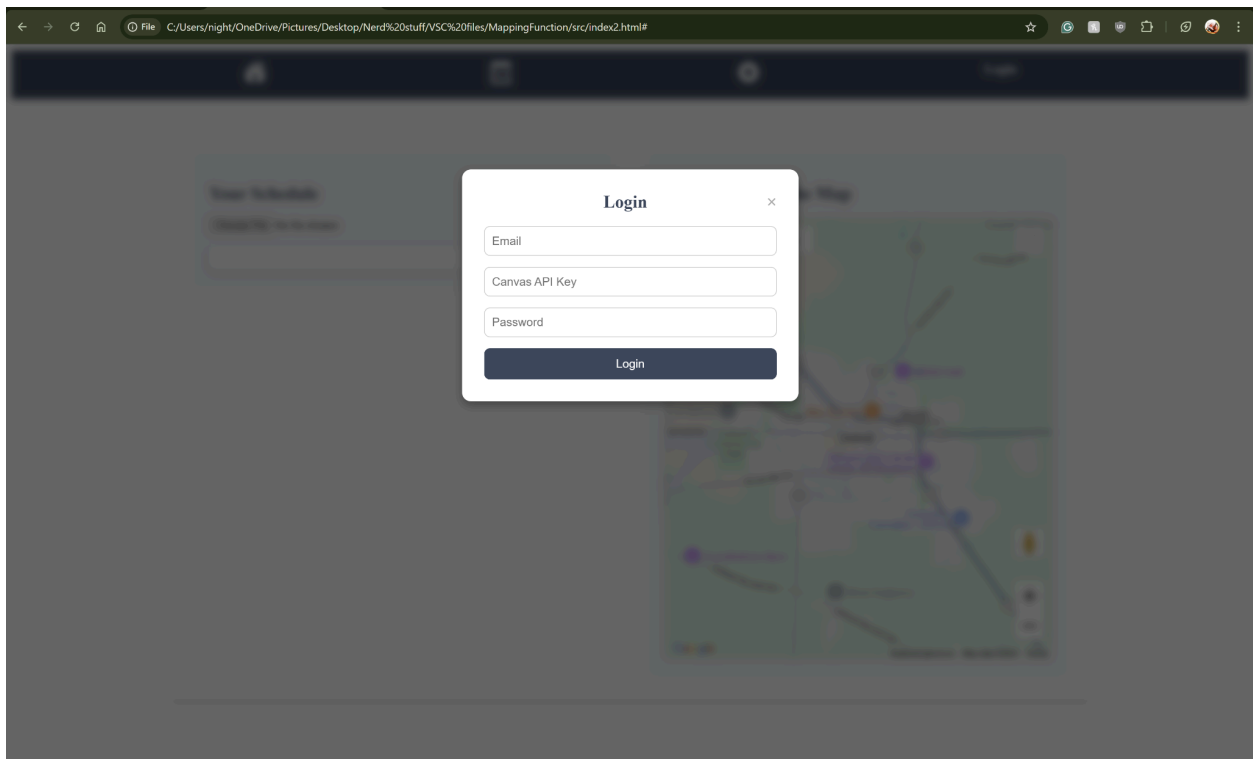
### 1. Accessing the Application

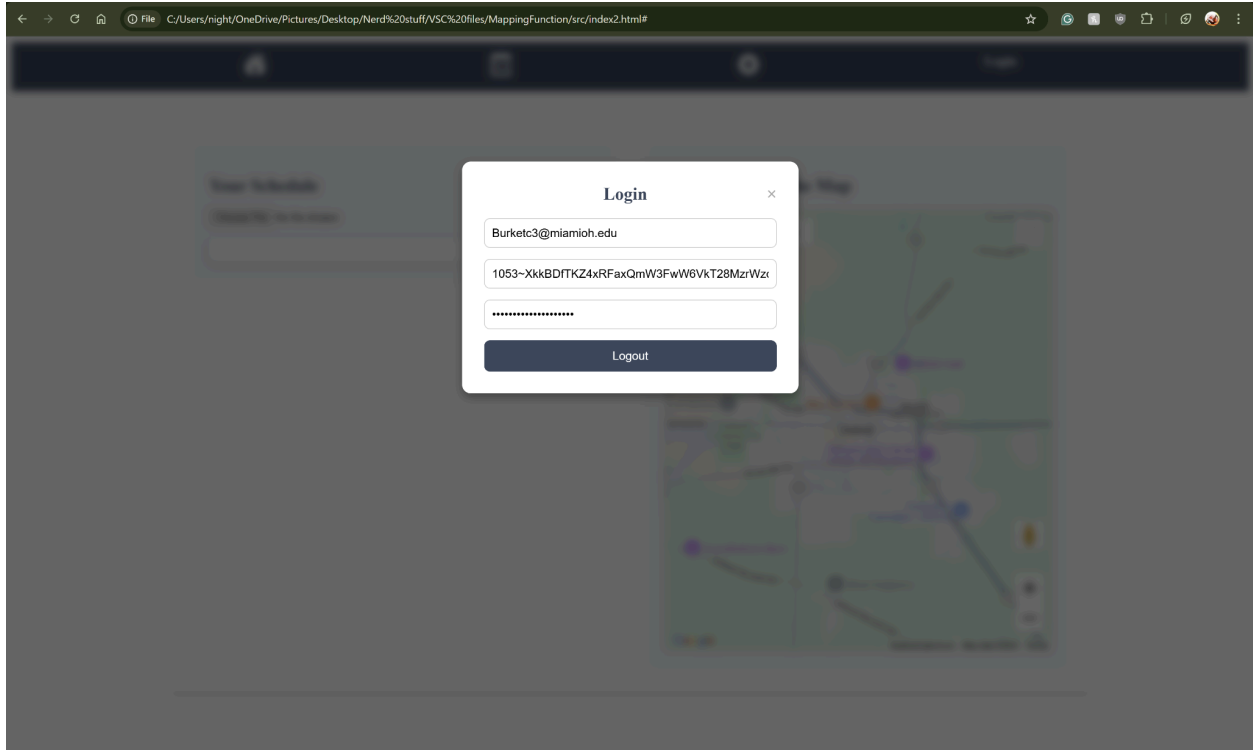
1. **Open the application** in a web browser by navigating to its URL.
2. Ensure your browser supports modern web features (JavaScript and HTML5 File API).



### 3. Logging In

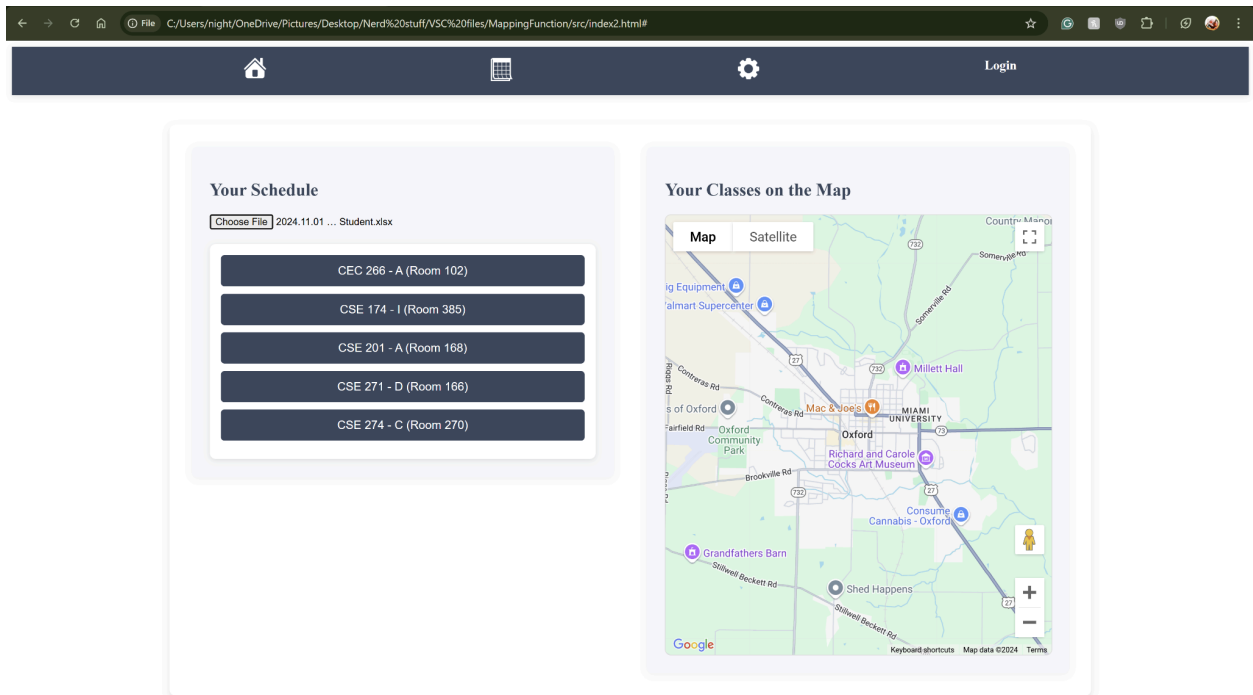
1. **Open the login modal:**
  - Click the “Login” button or icon to access the login form.
2. **Enter credentials:**
  - **Email:** Use your Miami University email (e.g., `username@miamioh.edu`).
  - **Password:** Enter your account password.
  - **Canvas API Key:** Input your Canvas API key (if applicable).
3. **Submit the form:**
  - Click “Submit” to log in. A confirmation message will appear on success.
4. **Log out:**
  - Click “Logout” to clear credentials and end the session.





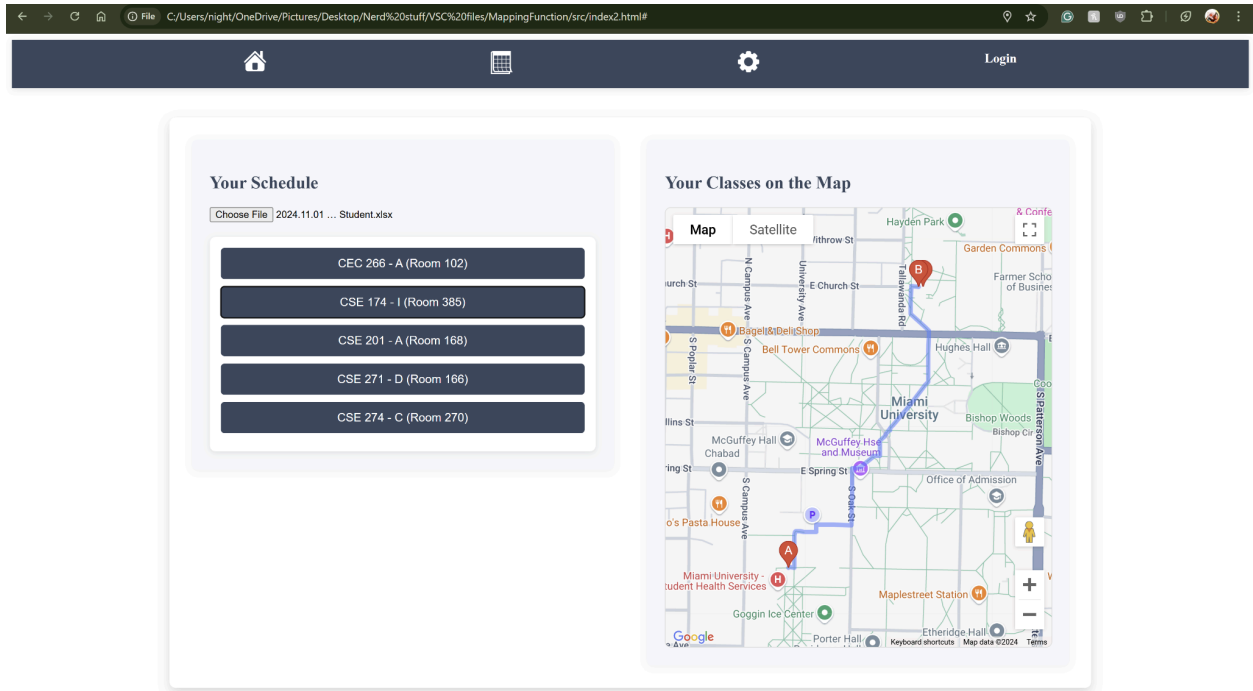
## 4. Uploading the Excel File

1. **Choose a file:**
  - Use the “Choose File” button to select the Excel file containing your course data.
2. **File format requirements:**
  - Ensure the Excel file includes columns for:
    - Course subject code
    - Course number
    - Section
    - Building name
    - Room number
    - Date and time
3. **Upload the file:**
  - The application automatically processes the file and matches courses to Canvas data.



## 5. Viewing and Interacting with Course Buttons

1. **Find course buttons:**
  - After processing the file, course buttons appear in the “Available Courses” section.
2. **Button labels:**
  - Buttons are labeled with course details, e.g., “CSC 101 - A (Room 205).”
3. **Click a button:**
  - Clicking a button:
    - Plots the course location on the map.
    - Displays directions from your current location (if allowed) to the course.



## 6. Using Map Features

1. **Navigate the map:**
  - Explore the map by zooming or dragging to view different locations.
2. **Interact with markers:**
  - Click a marker to view more details about a course location.
3. **Get directions:**
  - Directions from your current location to the course will appear, showing estimated travel time.

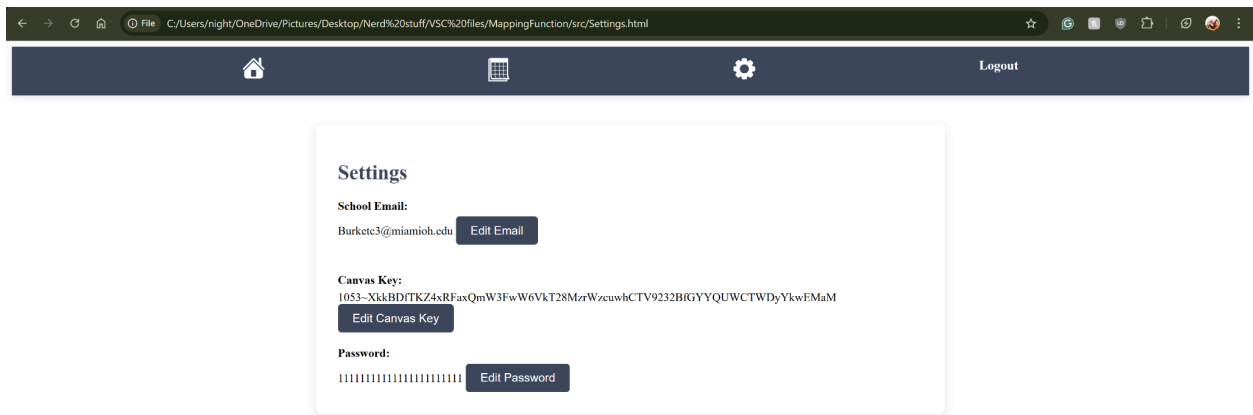
## 7. Calendar Integration (Optional)

1. **View the calendar:**
  - If access to Banner is available, the calendar displays your course schedule visually.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
6:00 AM					
7:00 AM					
8:00 AM					
9:00 AM					
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM					
2:00 PM					
3:00 PM					
4:00 PM					
5:00 PM					
6:00 PM					
7:00 PM					

## 8. Viewing and Editing Settings

- When the page loads, your current school email, Canvas API key, and password are displayed. If they are not set, placeholders like "Not set" will appear.
- **Editing Email:**
  - Click on the "Edit Email" button to reveal an input field where you can enter a new email.
  - After editing, click "Save Email" to update your account. If cancelled, the field will revert without saving.
- **Editing Canvas API Key:**
  - Click "Edit Canvas Key" to display an input field for entering a new Canvas API key.
  - Confirm the changes by clicking "Save Canvas Key."
- **Editing Password:**
  - Click "Edit Password" to show an input field where you can enter a new password.
  - Save the changes by clicking "Save Password." Cancel the edit to discard changes.
- **Logging Out:**
  - Click "Logout" to clear all user data from local storage, logging you out of the application. A confirmation message appears, and you will be redirected to the login page or home page as specified.



## Troubleshooting

- **No file selected:**
  - Ensure an Excel file is selected before processing.
- **Login issues:**
  - Verify your email format (@miamioh.edu) and API key. Contact IT support if needed.
- **Buttons not appearing:**
  - Check that the courses in your Excel file match Canvas data and use the correct section ID format.
- **Map or directions not working:**
  - Ensure your browser's location services are enabled, and permissions are granted.

For additional support or feedback, contact [burketc3@miamioh.edu](mailto:burketc3@miamioh.edu).