

# Travel Planner Management System

By:

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A Project Report

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for Information Management and Web Development  
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In the Faculty of College of Computer Studies  
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Marawoy Lipa City

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## Introduction

A travel planner is a highly organized tool designed to assist you in the intricacies of planning your journeys. Specifically, when you have a comprehensive plan to depart from your current location or venture out of town, the planner maintains detailed logs of your intended travel schedules, ensuring that you have a record of your plans at hand. Conversely, if you happen to overlook or miss a planned trip, the system efficiently deletes that entry from your records, keeping your itinerary current and free from clutter.

Furthermore, after you have embarked on your journey and returned from your travels, it becomes essential for you to upload tangible proof or captivating pictures that document the places you have visited, allowing you to not only preserve memories but also share your experiences with others in a visually engaging way.

## Technologies Used

### Front-End

- ❖ HTML5
- ❖ CSS3
- ❖ Vanilla JavaScript

### Back-End

- ❖ PHP
- ❖ PDO (PHP Data Objects)

### Database Management

- ❖ MySQL

### Development Tools

- ❖ XAMPP Server
- ❖ phpMyAdmin
- ❖ Visual Studio Code



## Database Design

The database schema follows a normalized 3-table structure to ensure data integrity and efficient management of items and archives.

## Entity-Relationship Diagram

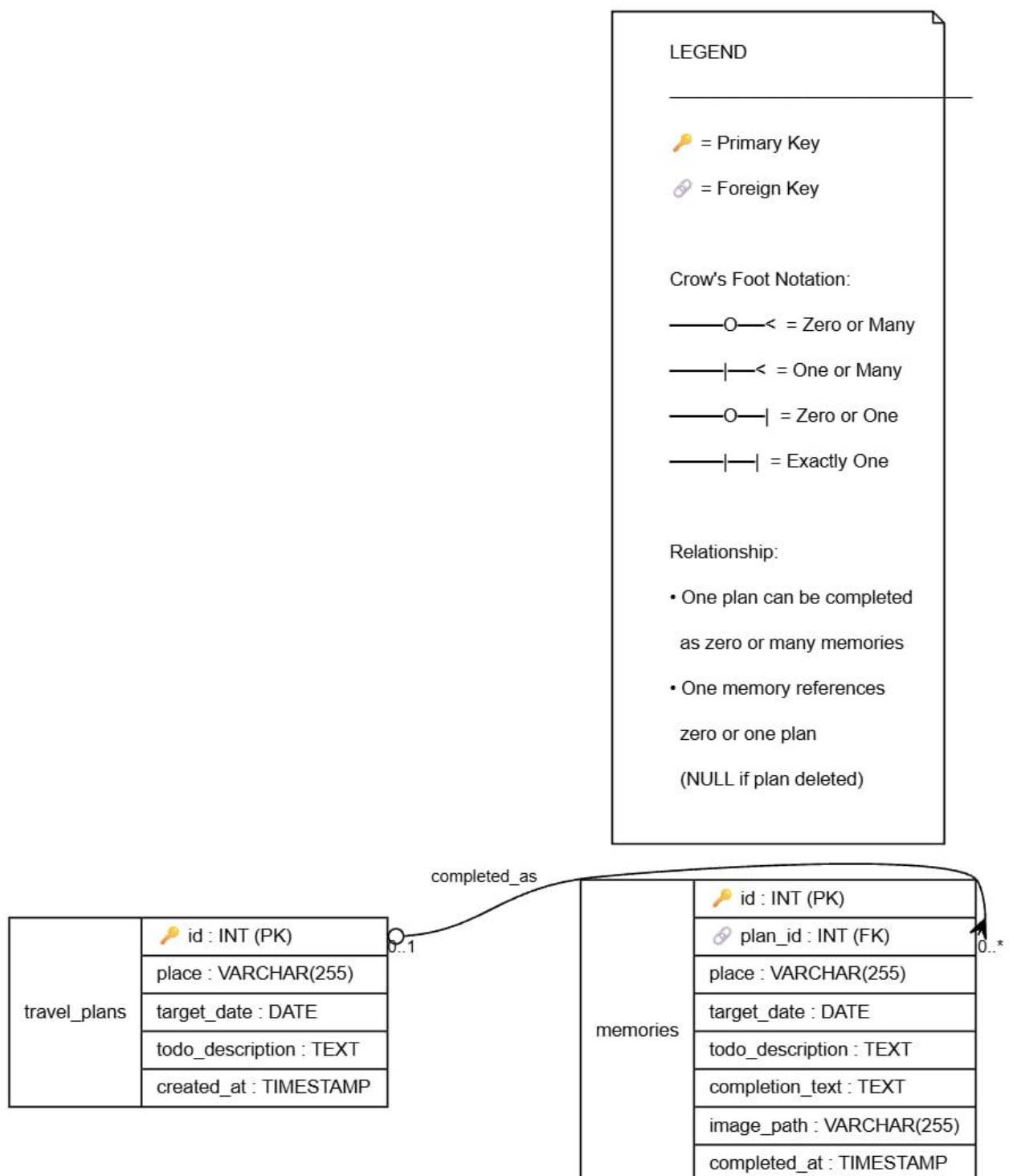


Figure 1 : ER diagram showing the relationship and cardinality using crow's foot notation



Table	Description	Key Columns
Travel plans	Inserts your plans and where you want go	Id(PK), place, target_date, todo_description, created_at
Memories	Stores the images of the places you went and a optional description	id(PK), plan_id (FK), place, target_date, todo_description, completion_text, image_path, completed_at

Web Interface

The initial webpage

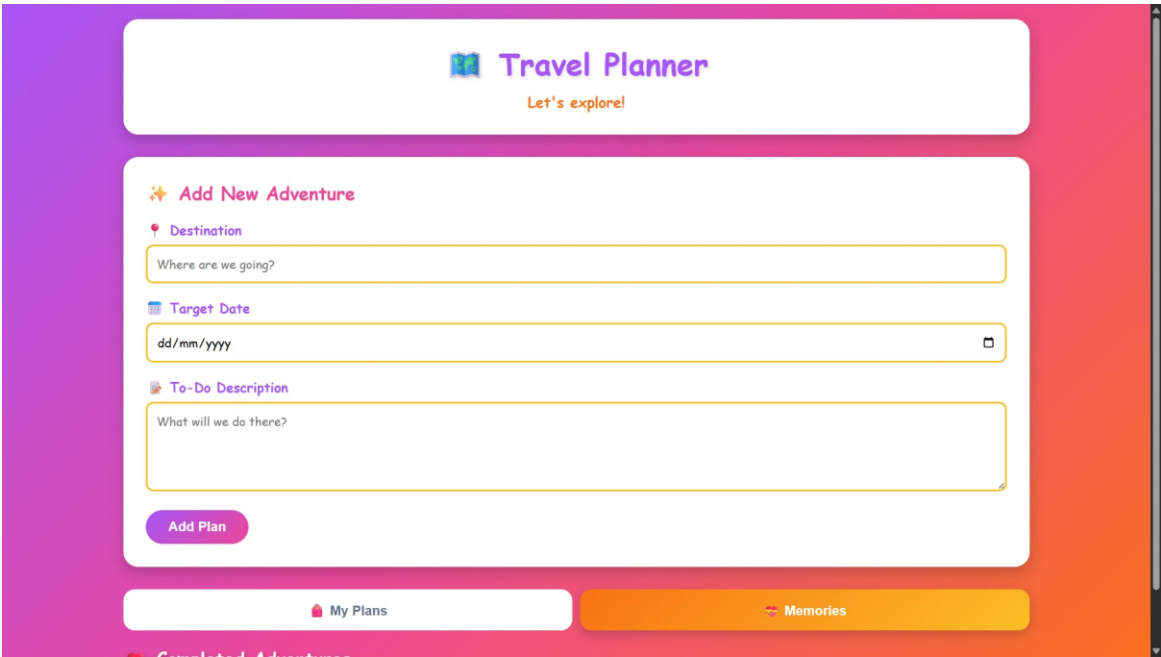


Figure 2 : GUI of the initial webpage



**Posting Form:** A dynamic interface that allows users to upload a destination, target date, description.

Figure 3 : GUI of the posting form

**Upcoming adventures Panel:** A real-time list of the plans you'll make in certain date.

Figure 4 : GUI of the Upcoming adventures Panel list



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**Adventure completed system:** A modal pop-up that upload images and experience after the trip.

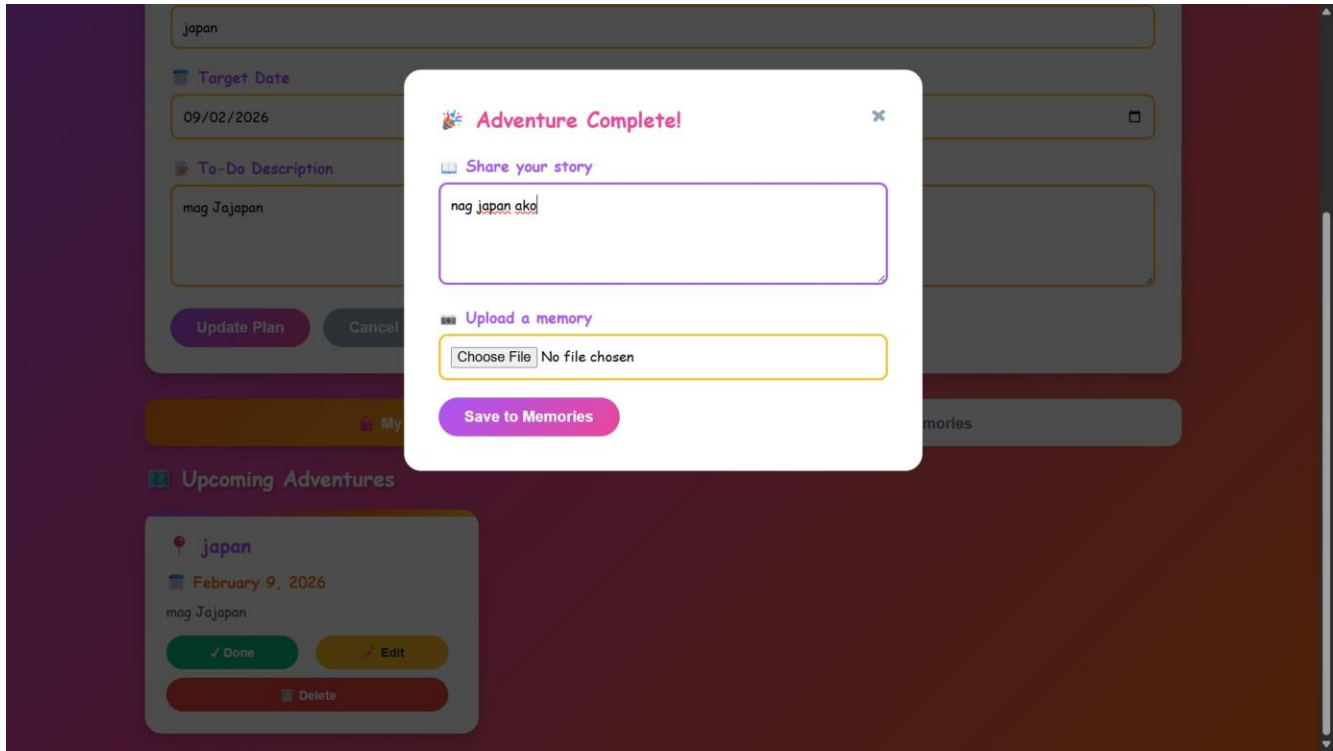


Figure 5: GUI of the claim popup modal



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**Archive:** A list where all memories are stored, showing the history and images of where you went or what you did and when.

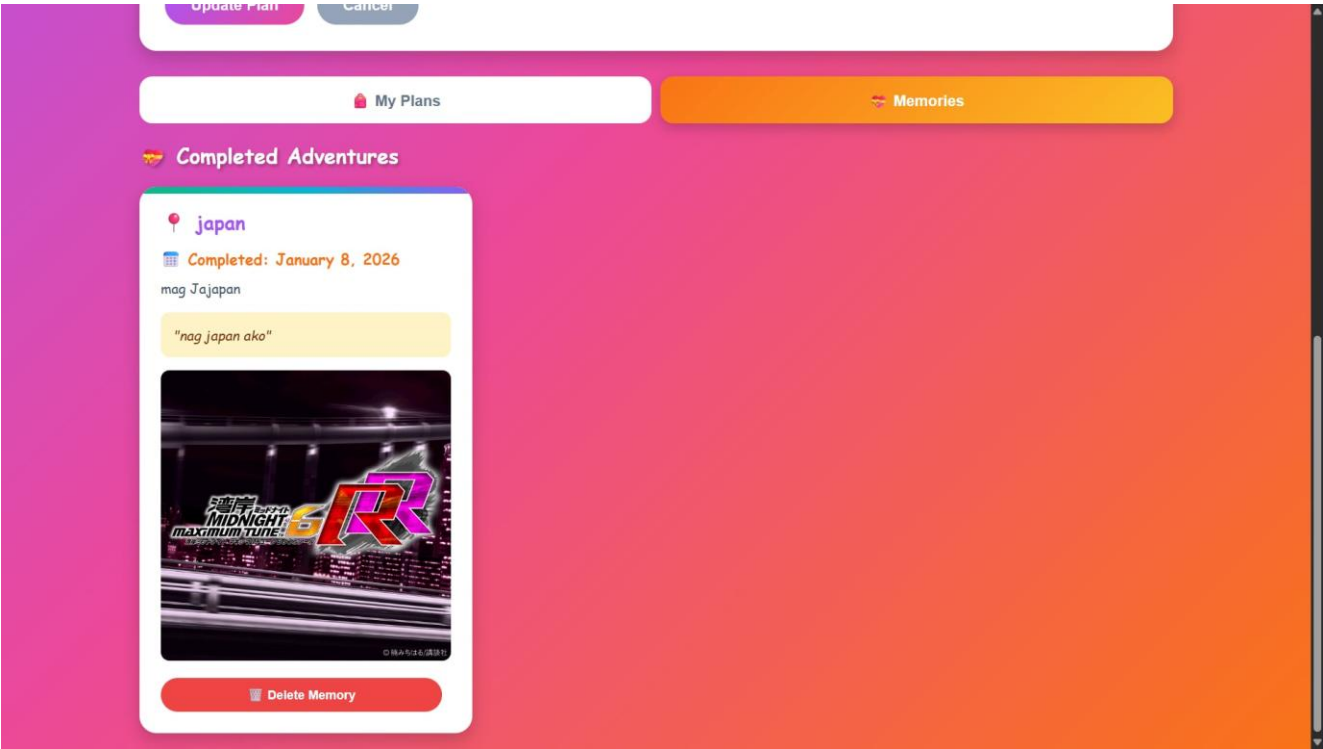



Figure 6 : GUI of the archived memories panel






**Mobile View Compatibility:** The webpage changes the structural layout when viewed in a much smaller screen.




## Travel Planner

Let's explore!




### Add New Adventure




#### Destination


Where are we going?



#### Target Date

dd/mm/yyyy





#### To-Do Description

What will we do there?

Add Plan

Figure 7 : GUI of the mobile view

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## Challenges and Learning

### 1. Technical Challenges

- **Dynamic Data Management:** Implementing logic to automatically identify and remove "missed" trips by comparing real-time system dates against database timestamps.
- **Secure File Handling:** Managing image uploads, including file validation (size/type), preventing naming conflicts, and linking file paths to specific database records.
- **Database Security:** Transitioning from standard queries to **PDO Prepared Statements** to protect the application against SQL Injection.
- **State Persistence:** Ensuring the UI stays synchronized with the backend, especially when entries are automatically deleted or updated with "tangible proof."

### 2. Key Learnings

- **Full-Stack Integration:** Gained a practical understanding of the **Request-Response cycle**, connecting a Vanilla JS frontend to a PHP/MySQL backend via XAMPP.
- **CRUD Lifecycle:** Mastered the full data lifecycle: **Creating** itineraries, **Reading/Displaying** schedules, **Updating** records with photos, and **Deleting** expired entries.
- **Automated Logic:** Developed "clean-up" scripts that maintain a clutter-free database without requiring manual user intervention.
- **Environment Management:** Learned to manage a local development environment using **phpMyAdmin** for schema design and **VS Code** for full-stack debugging.