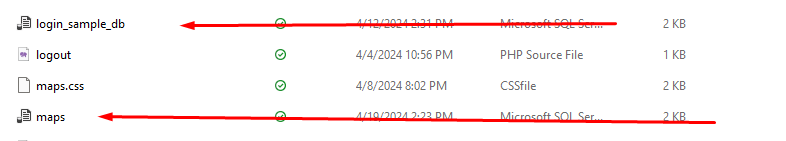
**Find-N-Go Application Documentation**

**Overview**

Find-N-Go is a web application that provides users with an interactive map to locate essential services such as cinemas, gas stations, hospitals, pharmacies, grocery stores, and restaurants in Thessaloniki. The application features user authentication, detailed maps with clickable markers for various establishments, and a responsive user interface.

**To set up the database:**

* There are two databases that need to be set up so we have to create two new databases in your localhost phpMyAdmin.

A screenshot of a computer

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* First step is to open the xampp and start the Apache and MySQL.

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* Next you have to search in your browser localhost/phpmyadmin/ . Then you must create two new databases with the same or similar name as the files in the folder.

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* After you have created the databases you have to import the sql files.

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* Select the first sql file with the same name as the database and push the import button.

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* After that you have to put the same name as your database in phpmyadmin so it could work.

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**Features:**

Authentication: Users can sign up, log in, and log out.

Interactive Maps: Utilizes Google Maps API to display various establishments with custom markers.

Responsive Design: Adapts to different device screens for optimal viewing.

Location Details: Users can click on markers to get more information about each location.

Category Selection: Users can choose different categories of services to view on the map.

Pages

Home Page (index.php): Landing page with login and navigation to all services.

About Page (aboutpage.html): Provides information about the purpose and functionality of Find-N-Go.

Category Pages:

Cinemas (cinema.html)

Gas Stations (gasstation.html)

Hospitals (hospitals.html)

Pharmacies (pharmacies.html)

Grocery Stores (groceriesstore.html)

Restaurants (restaurants.html)

Each category page displays a map with markers indicating specific locations like cinemas or restaurants. Users can interact with these markers to get more information.

Rest Api Integration Attempt: During the development of the Find-N-Go application, there was an attempt to integrate a REST API to enhance the application's functionality. The goal was to fetch dynamic data about various locations and potentially offer real-time updates and more interactive features.

**Technologies Used:**

Front-End:

HTML: For structuring the web pages.

CSS: For styling (maps.css, styles.css, stylesabout.css).

JavaScript: For dynamic interactions and API integrations (script.js, restaurants.js, etc.).

Back-End:

PHP: For server-side logic (index.php, login.php, signup.php, etc.).

MySQL: For database management (maps.sql).

**API Integration:**

Google Maps API: Used for rendering maps and placing markers based on the locations stored in the database.

Databases

MySQL login database stores user’s login and sign up information. Also maps database stores the names and the number of the places that are in the map.

**Installation:**

Clone/Download the repository.

Set up xampp (Apache, MySQL).

Configure the database:

Import maps.sql and login\_sample into your MySQL database.

**Usage:**

Navigate to the home page (index.php), log in, and select the desired category from the navigation bar to view the corresponding services on the map. Click on any marker to view more details about that location.

**Find-N-Go Application Development Schedule:**

Day 1: Project Setup and Planning

Tasks:

Initial project setup.

Requirements gathering.

Tools and technologies selection.

Creation of the project repository and version control setup.

Hours Spent: 2

Day 2: Database and Backend Setup

Tasks:

Design and setup of the MySQL database.

Configuration of PHP backend environment.

Implementation of basic backend functionalities.

Hours Spent: 4

Day 3: Basic Frontend Implementation

Tasks:

Layout and basic navigation setup using HTML and CSS (maps.css).

Initial static pages setup (Home, About).

Hours Spent: 5

Day 4: API Integration and Map Setup

Tasks:

Integration of Google Maps API.

Initial map setup and custom markers for different categories (script.js).

Hours Spent: 8

Day 5: Adding Interactive Features

Tasks:

Development of interactive map features (clickable markers with info windows).

Testing and troubleshooting of map functionalities (restaurants.js, gasstation.js, etc.).

Hours Spent: 3

Day 6: User Authentication and Session Management

Tasks:

Implementation of user login and registration features (login.php, signup.php).

Hours Spent: 4

Day 7: Testing, Debugging, and Deployment

Tasks:

Comprehensive testing of all features.

Debugging and fixing issues found during testing.

Deployment of the application to the server.

Documentation finalization.

Hours Spent: 4

**Difficulties Encountered During the Development of Find-N-Go:**

1. API Integration Issues

Complexity in API Configuration: Setting up the Google Maps API and custom REST API have presented challenges, especially concerning authentication and ensuring stable connectivity in the maps API.

Handling API Responses: Parsing and utilizing data from APIs has been a difficult part of this application.

1. Testing and Quality Assurance

Dealing with Unexpected Bugs: Handling bugs that were not anticipated and devising quick fixes or workarounds to keep the development on schedule.