PG - FINDER

MINI – PROJECT – I

SYNOPSIS

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DECLARATION

We hereby declare that the work which is being presented int the project synopsis "**PG – Finder**" in partial fulfilment of the requirement for project is an authentic record of our work carried under the supervision of **Mr. Mandeep Singh, Technical Trainer, GLA University, Mathura** during session *2022-23*.

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CONTENTS

INTRODUCTION

A website where users may look up, see, and inquire about PGs, dorms, or private hostels. While it is intended primarily for browser-based access, it might potentially be made accessible as a mobile app in the future.

This project's main purpose is to make it easier for people, mostly parents and students, to find, shortlist, and inquire about hostels, dorms and PGs for boarding in another state or city.

Instead of traveling to the city first and afterwards looking for PGs or hostels on foot, this will make it much simpler for anyone to conveniently schedule their long-term stay in advance. The likelihood of discovering a suitable option will also rise as a result of the vast number of options available online.

REQUIREMENTS

❖ SOFTWARE REQ.
- o Languages used: JavaScript, HTML, CSS
- o Framework used: React
- o Database: MySQL
- o Tools: VS Code, JetBrains WebStorm, Chrome
- o Version Control: Git

❖ HARDWARE REQ.
- o Processor: i5 or above.
- o Operating System: Windows
- o Ram: 8GB or above.
- o Hardware Device: Computer
- o Hard Disk: 32GB or above.

PROJECT DESCRIPTION

The purpose of this project is to develop an application for PG – finding. The term "PG – finding" goes beyond PGs and can be used to look up private hostels or dorms. The idea of this project is to build a website which is capable of hosting multiple such hostels and PG(s). A user who wants to know about PGs in a certain location or a city can look up the website database using a search box. All the matching items will then be showed to the user. A user can also get necessary details about the property such as it's rent, how much area or some images of the accommodation (all of this will be provided by the host of the accommodation).

The project is divided into 3 modules, 2 User modules the **Rider** and the **Provider**, and 1 **Admin** module.

Rider Module:

This module encompasses the user of the project which is there to look or to inquire about the available accommodations. This user can search a particular accommodation result by querying in the search bar or he/she can select an accommodation from presented ones. This user can also contact the accommodation provider by clicking their respective phone number. User can log in into the application and provide rating for the property and can also like (save property) for future or they can report a property as well if felt for the same, this report will then be looked upon by the

admin. User can see multiple accommodations and sort them according to rating or in lexicographical order. User also has access to his/her profile page where they can see their basic details (entered by user itself on the time of signup), user can also modify these details, On the profile page user can also see all the liked (saved) properties.

Provider Module:

This module comprises another set of users of the project who will add accommodation details to the website. This user has access to profile page where they can see their basic details, filled by them at the time of signup. The user also can look up details of all the previously added accommodations. The User can add new accommodation to the website using a simple new-accommodation form. This adds a new listing to the website, the user is also able to remove older or temporarily remove the accommodation previously listed by them.

Admin Module:

This module is for the Administration of the project, this level of access by the site – builder allows them to perform various tasks such as removing bad rated, or false properties, the administrator would also be able to remove certain users from the project under certain circumstances. The admin would be able to see and manage all users on the website. Admin will be able to see reported properties and take actions against them if necessary.

WORKING

The project works in 2 domains…

First Domain: User who is there to inquire or to look for some accommodation or PG. This user can go to the website and can immediately start looking through the results, user can also search for properties according to the city using the query box. Now, if a user wants to save a result for future access they can like (click on heart icon) to save it, this will prompt them to login before if they have not logged in yet. A user can login with credentials created by them at the time of signup or can create a new account by filling some basic details such as email, name & password. Now user can save results for future access. Also, the user can view all the properties saved by them in past in the profile section under the saved properties banner.

Second Domain: User who wants to host some property or add details about some property can directly login using property login module. Now, this user can see its profile in the profile section. User can see all the listed properties under the listed properties section and create a new property using the button to add new property, the user can also add some images of the property or modify existing property details and images. User can modify availability of the property and can describe whether the property is currently available or not.

IMPLEMENTATION

Frontend:

For the frontend we are using HTML and CSS, with some Bootstrap. To make the frontend more reactive and user interactive we will use JavaScript.

Backend:

In the backend we are using PHP for the API development & phpMyAdmin and MySQL for the database.

Tools Description:

HTML: Hyper-Text-Markup-Language is used for structuring web pages over the internet. HTML is the **language in which most websites are written**. HTML is used to create pages and make them functional.

CSS: Cascading-Style-Sheet is a styling language used to style and basically define **how** the content will appear on the website.

JavaScript: JavaScript is a scripting or programming language which is now used extensively to design modern web applications and website, it allows the developer to write application which modify themselves according to each user

and its data, this made web applications much more accessible and suitable for many purposes. Many Frameworks of JavaScript such as React, Node, Next etc. are used for different type of requirements and developments.

PHP: Hypertext Pre-processor is a widely-used open-source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. Apart from JS, PHP is also another widely used language in the web-applications.

phpMyAdmin: is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. This makes it easier for developers to visually look and verify modifications in the database through a GUI application.

MySQL: is an Open Source Structured-Query-Language database management system. It is one of the most popular choices relational database projects, due to its efficiency and speed.

REFERENCES

Books:

    a. Black Book HTML5, CSS, JS

Websites:

    a. MDN Web Docs ([link](#))
    b. W3Schools ([link](#))
    c. GeeksForGeeks ([link](#))
    d. CSSTricks ([link](#))

Documentations:

    a. JavaScript Documentation ([link](#))
    b. PHP Documentation ([link](#))

Faculty Guidelines:

    Mr. Mandeep Singh (Technical Trainer, GLA University)

GitHub Repository Link: https://github.com/aryan-upa/pg-finder-mini