

TY MINI PROJECT REPORT

ON

HOTEL BOOKING SITE FOR AROMA HOMES

BY

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CERTIFICATE

This is to certify that the Mini Project entitled " Hotel booking site for aroma homes" has

been carried out by Harsh Amin(B603), Tushar Bana(B610), Saloni Dave(B629) in partial

fulfillment of Third Year Computer Engineering as well as in the record of Mini-project work

done by him/her at SCET,MIT AOE- an Autonomous institute affiliated to Savitribai Phule

University, Pune under the guidance of "Guide Name" during the academic year 2019-2020.

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ACKNOWLEDGEMENTS

The success and final outcome of this project required a lot of guidance and assistance from many people and I am extremely privileged to have got this all along the completion of my project. All that I have done is only due to such supervision and assistance and I would not forget to thank them. I respect and thank Mr S.C. SHIRAVALE, for providing me an opportunity to do the project work and giving us all support and guidance which made me complete the project duly. I am extremely thankful to him for providing such a nice support and guidance.I am thankful to and fortunate enough to get constant encouragement, support and guidance from all Teaching staffs of school of Computer Science and Technology which helped us in successfully completing our project work.

ABSTRACT

Managing a hotel on various platforms like oyo, Airbnb, booking.com, treebo, goibibi etc is a difficult task where there are chances of several bookings colliding for a single day. It leads to mismanagement of services, economy and clashes between the guests and the owner of the hotel.

We intend to build a full-fledged website for Aroma Homes, where the owner can see all his bookings on just a single calendar. And also get the mails for all his bookings. We will also add a secure payment gateway so that the customers can pay online for their booking which accepts all debit cards and also paypal money for international customers. We also intend to add pre-payment feature to avoid fake bookings.

The website will also show the major tourists attractions in Udaipur, rajasthan and can also get taxi services. The guests can add breakfast, lunch and dinner services (which will be chargeable) at the time of booking itself.

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1.INTRODUCTION

1.1PROBLEM DEFINITION

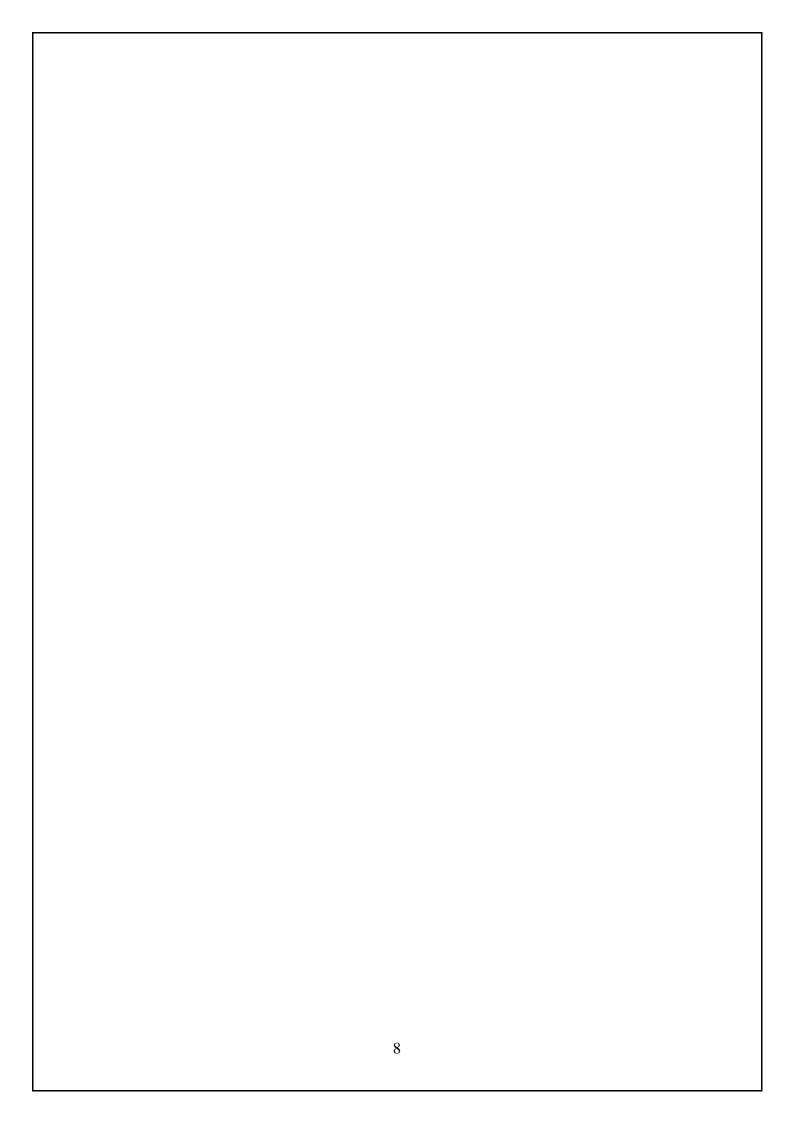
Our aim to build a full fledged hotel booking website for our client AROMA HOMES.

- To promote business of our client, the owner of Aroma Homes.
- To avoid fake bookings and encourage sales.
- To manage guests of different platforms at a single platform.

1.2MARKET SURVEY

We are building this website for a third party.

The owner will be able to see the blocked dates of Airbnb, treebo, goibibo etc. bookings on his own website. Also he will be informed the guest details, no of people, check in time etc through mail. Also people will get discount on their booking if they book through the website rather than other plattforms.



1.3SOFTWARE/HARDWARE REQUIREMENTS

Software requirements	Hardware requirements
1. Firebase for storage and database.	1.Computers and servers
2. Dreamweaver for website creation.	2.External HD for backup.
3.HTML Editor	3.Internet.
4.Web browser	
5. Graphic editor.	

Fig1.Requirements

1.4TARGET SPECIFICATION

Fully functional website for aroma homes through which he will schedule his bookings and also take additional bookings.

2.LITERATURE REVIEW

We contacted the owner of aroma homes and proposed our idea.

For designing the website we will be using HTML,CSS,bootstrap and for server side we intend to use PHP as the language.

For synchronization of different calendars of bookings from different platforms, we intend to use either google calendar api or paid channel manager software.

2.1WORDPRESS

WordPress is the simplest, most popular way to create your own website or blog. In fact, WordPress powers over 33.6% of all the websites on the Internet. Yes – more than one in four websites that you visit are likely powered by WordPress.

On a slightly more technical level, WordPress is an open-source content management system licensed under GPLv2, which means that anyone can use or modify the WordPress software for free. A content management system is basically a tool that makes it easy to manage important aspects of your website – like content – without needing to know anything about programming.

The end result is that WordPress makes building a website accessible to anyone – even people who aren't developers.

One of the biggest benefits of WordPress is that it's free, open-source software. While you will need to pay a little bit for hosting, you will never have to pay just to use the WordPress software, which isn't the case with alternatives like Squarespace.

Beyond that, you can also find lots of open-source plugins and themes to change how your website looks and functions.

It has three major components: the core, themes, and plugins.

The **core** code contains all the default functionality that makes up the WordPress content management system. This includes everything from the admin backend to functions like scheduling posts, password strength checking, allowing the creation of users and so on. While the core is responsible for the backend of a website and how it operates, **themes** are responsible for the front-end and how website's look and feel. We use the WordPress admin to create posts, pages, and other site content, but exactly how our posts and pages are displayed to visitors is up to the theme. This gives you considerable power over your website. You might want to install and activate pre-built themes or break out of the box completely and go your own way with custom designs.

The simplest way to describe **plugins** is that they provide additional functionality to WordPress. To make this happen, a plugin may modify the backend and/or the front-end of a website. A plugin that adds a Tweet button for Twitter is a good example. It would probably create a new settings page in the backend admin menu where you could set up some default options for a user's tweet and it would also add itself to the front-end of a website, most likely displaying under a post.

In a way, plugins are the lifeblood of WordPress, transforming it into everything from a forum to a social network, eCommerce platforms and much more with the push of a button. Plugins give you total control over all aspects of the WordPress system, allowing you to modify anything you want. This can be a huge help in making WordPress white label for clients, adding that one little function you always need; making WordPress your own.

Plugin marketplaces also exist and are generally owned by some of the same companies that also run theme marketplaces. <u>CodeCanyon</u> is by far the largest with more than 4,000 plugins available to purchase. Sales tend to be lower than with themes, but if you find the right niche it can still be very profitable.

WordPress also has a free <u>Plugin Directory</u> with more than 40,000 plugins. It's a great source of tools, inspiration, and examples of great code (and also bad code, regrettably).

2.2HTML and CSS

The first two languages that are used are HTML and CSS. No matter what code you write, no matter what language you use, it all eventually boils down to HTML when sending web pages to a user, and very likely some CSS styled that page.

HTML is responsible for giving websites structure. At a basic level, this means that you'll be deciding what text should be a heading, what should be a list, what goes in the sidebar and what's in the header and footer. On a deeper level, you're actually making important SEO and optimization decisions. Don't worry about that bit for now, though, as getting to grips with the syntax is most important.

CSS is used for applying styles to your HTML structure. You'll define the color of text, links, the space between paragraphs, image alignment, border colors, float properties, border

thickness and other elements using CSS code. CSS is extremely easy to learn but very difficult to master.

2.3PHP

PHP is an immensely popular server-side scripting language and, according to web technology survey service W3Techs, is used in 81.6% of all websites where the language is known. PHP is the language WordPress (and most other content management systems) are built on and, as such, a thorough knowledge of PHP is essential for WordPress development.

Just by knowing PHP, we gained more than just the knowledge to code for WordPress.

Learning any server-side language gaave insight into how programming works, and it will bestow a special kind of logic, which you can use to solve all sorts of problems on and offline.

A server-side language differs from a client side language – like HTML – in that it isprocessed on the server first. In HTML, you could write code for Good Morning and that HTML would then be sent to the browser as-is where your visitors would see "Good Morning" displayed.

In a server-side language, you could write code for something like good [time_of_day]. and before that command is sent to the user, the server would process it and figure out what to put in place of [time_of_day]. Depending on what time of day you access the site, you may see "Good day" or "Good evening". Note that the data your browser receives is still in plain old HTML but it has been processed on the server beforehand. Also, note that the code above is not actual PHP code, it's just an example to show you the logic.

2.4JAVASCRIPT

JavaScript is usually used to add dynamic functionality to websites and for asynchronous loading.

If you would like a form to be completely hidden but fade in inside a lightbox when the user clicks on a button, you can use JavaScript since it can handle the animation and perhaps other functions, like checking the form is filled out correctly before being sent along.

Asynchronous loading is done via a mechanism called AJAX. AJAX can be used to retrieve information from the server and then display it without reloading the page. A good example is endless scrolling where the first 10 posts are loaded and when you get close to the bottom of the page the next 10 posts are retrieved and appended to the current set.

3.SYSTEM ARCHITECTURE

3.1DATA FLOW DIAGRAM

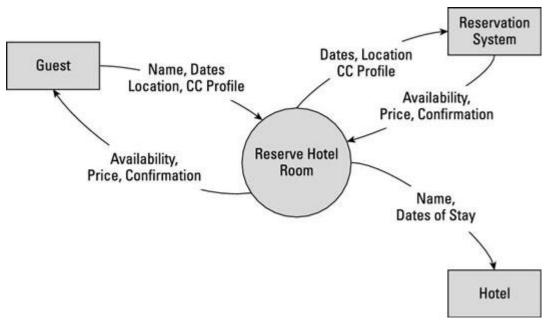


Fig2.Data flow diagram

3.2UML DIAGRAM

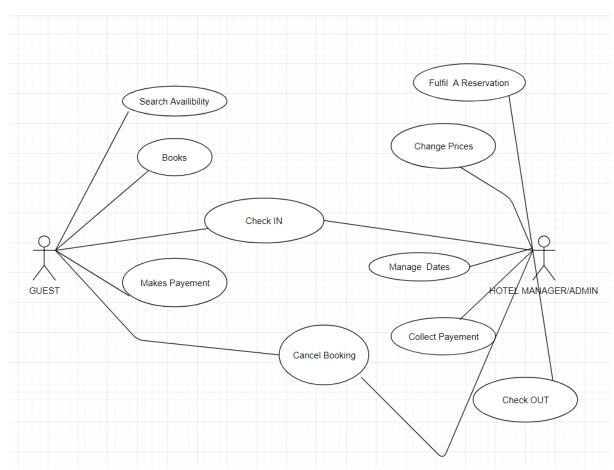


Fig3.UML Diagram

4.SOFTWARE DEVELOPMENT OF PROJECT

4.1PROCESS OF DEVELOPING

4.1.1SETUP

For most users, a self-hosted WordPress.org site is the perfect solution. It comes with thousands of designs and addons which allow you to create any kind of website you can think of. For more on this topic, please see our guide on why you should use WordPress.

WordPress is free for anyone to download and use to build any kind of website without any restrictions.

WordPress is free because you'll have to arrange your own domain name and hosting, which costs money. A domain name is your website's address on the internet. This is what your users will type in their browsers to reach your site (For example, wpbeginner.com or google.com).

Next, you'll need website hosting. All websites on the internet need hosting. This will be your website's home on the internet. A domain name typically costs \$14.99/year and hosting costs start from \$7.99/month.

4.1.2INSTALLATION

You will find tons of icons to do different things on your hosting account dashboard (cPanel). You'll never need to use 95% of them, so you can safely ignore them.

Scroll down to the website section in cPanel and then click on the WordPress icon.

On the next screen, you will be asked to select the domain name where you want to install WordPress. Choose your domain from the dropdown field and then click Next.

Now you'll need to enter your website name, admin username, and a password for your website. Don't worry, you can change them later in WordPress settings if you need to. You'll also need to check all the checkboxes on the screen and then click on the 'Install' button to continue.

Quick Install will now start installing WordPress on your website. Meanwhile, it will show you some website templates that you can install on your site.

You don't need to do that right now because we'll show you how to find and install free WordPress template on your website later in this guide.

Once the installation is over, you'll see a success message in the top header.

Now you need to click on the 'Installation Complete' link, and it will take you to the screen with your WordPress login URL and password.

4.1.3SELECT A THEME

The visual appearance of your WordPress site is controlled by a WordPress theme.

WordPress themes are professionally designed templates that you can install on your website to change its appearance. There are thousands of free and paid WordPress thees that you can install on your site.

You can change your theme from the WordPress admin dashboard. Visit **Appearance** » **Themes** page and then click on the 'Add New' button.

On the next screen, you will able to search from 4,492 free WordPress themes that are available in the official WordPress.org themes directory. You can sort them by popular, latest, featured, as well as other feature filters (i.e industry, layout, etc).

If you know the name of the free theme you want to install, then you can look for it by entering its name in the search field.

WordPress will show you the theme in search results. You will need to take your mouse over to the theme and then click on the Install button.

Once you have installed your theme, you can customize it by clicking on the Customize link under the Appearance menu.

This will launch the theme customizer where you will be able to change your theme settings with live preview of your website.

4.1.4SET CONTENT

WordPress comes with two default content types called posts and pages. Posts are part of a blog and appear in reverse-chronological order (newer items displayed first).

On the other hand, pages are meant to be static "one-off" type content such as your about page, contact page, privacy policy, etc.

By default, WordPress shows your blog posts on the front page of your website. You can change that, and make WordPress show any page as the front-page of your website (we'll show you how to do that later in this guide).

You can create a separate page for your blog or news section. In fact, you can create a website without any blog section at all.

You'll start by adding a few pages to your WordPress site. Don't worry if you don't have enough content for these pages at the moment. You can always edit and update them. Head over to **Pages** » **Add New** page in WordPress admin area. This will bring you to the page editor screen, which looks like this:

First you need to provide a title for your page, let's call this page 'Home'.

After that you can add content in the text editor below. You can add text, links, images, embed videos, audio, etc.

After adding content to your page, you can click on the publish button to make it live on your website.

You can repeat the process by adding more pages for different sections of your website. For example, an about page, contact us, and a blog page to display blog posts.

4.1.5CUSTOMIZE

You need to visit the **Settings** » **Reading** page in your WordPress admin area. Under the 'Front page displays' option click on the static front page and then select 'Pages' you created earlier for your home and blog pages.

Don't forget to click on the 'Save Changes' button at the bottom of the page to store your changes.

WordPress will now use the page titled 'Home' as your site's front page and 'Blog' page to display your blog posts.

Change Site Title and Tagline

During the installation you get to choose your site's title. WordPress automatically adds a tag line to your site title that says 'Just another WordPress site'.

You can change both your site's title and tagline at any time by visiting **Settings** » **General** page.

4.6INSTALLING PLUGINS

WordPress Plugins are like apps for your WordPress site. They allow you to add features to your WordPress site. Think contact form, photo galleries, etc.

There are currently more than 49,000 free plugins available for WordPress. There are also paid plugins sold by third-party websites and developers.

With this many plugins, how do you find which plugins to install? We got you covered there as well, see our guide on how to choose the best WordPress plugin.

ELEMENATOR: Elementor is a page builder plugin that replaces the basic WordPress editor with a live frontend editor, so you can create complex layouts visually, and design your website live, without having to switch between the editor and the preview mode. The page builder enables you to reach a top-notch quality of design without needing to use code or CSS, and without relying on developers for help.

The user interface is extremely friendly, so it only takes a few minutes to get the hang of it. We've built Elementor with the latest technology, and have kept updating it steadily since our launch in June 16′, so the whole page builder is optimized and fast responsing. This means, for example, that when you drag and drop widgets, it is done instantly, without any lag time at all.

HOTEL BOOKING AND ELEMENATOR: We tied <u>WordPress Hotel Booking</u> <u>plugin</u> and Elementor together to provide you with a more user-friendly toolkit for building your property rental website visually.

Thanks to smooth plugins integration, you'll be able to see all MotoPress Hotel Booking shortcodes and widgets (e.g. search availability form, rentals listing, etc.) in the list of the content modules in the Elementor builder. It will help you add all needed shortcodes and edit their parameters in a real time, via a more user-friendly Elementor interface

HOTEL BOOKING LITE: Using this reservation plugin, you can create a simple vacation rental listing as well as a powerful rental property booking website with all sorts of online and offline payments, automatic inventory control, taxes and fees info, flexible pricing rates, custom policies and more.

This WordPress booking system was developed for hotel and vacation rental owners, B&B hosts, real estate agencies, and anyone in the lodging sector of the hospitality industry. Hotel Booking is a standalone plugin that will help you create a stunning rental property website with any WordPress theme and switch it with peace in mind if needed. The admin dashboard is absolutely user-friendly making it easy to create a hotel or property renting website for non-tech people.

NINJA FORMS: A gorgeous and intuitive user interface.NO LIMITATIONS on the number of forms, fields, emails, actions, or submissions.Dedicated, easy to use fields for emails, dates (w/ datepicker), phone numbers, addresses and more

Modify your own field then save them as favorites to re-use later (even in other forms!) Force required fields and correct data formatting with custom input masks. Give your users a success message or redirect them elsewhere after they complete a form.

Manage, Edit, and Export form user submissions. Email form data to administrators and/or users every time a form is processed. Customize emails and add raw HTML (for photos, videos, and more) with the powerful Summernote HTML editor.

4.2PROCESS OF TESTING

4.2.1USING LOCAL MACHINE

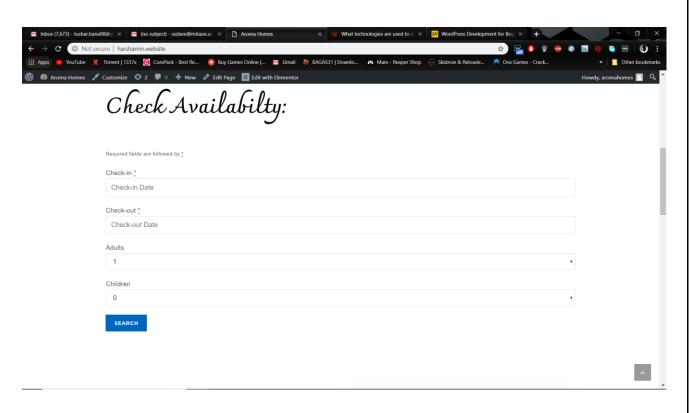
Tools like MAMP are perfect for setting up a local WordPress installation. MAMP turns your personal computer or Mac into a local server to which you can import a clone of your website to work on at your discretion. It's not difficult to do and you have very easy access to make changes- no FTP needed. We even have step by step instructions on how to do it. The downside is if something does go wrong with your live site at some point, you can't redirect traffic to your local machine.

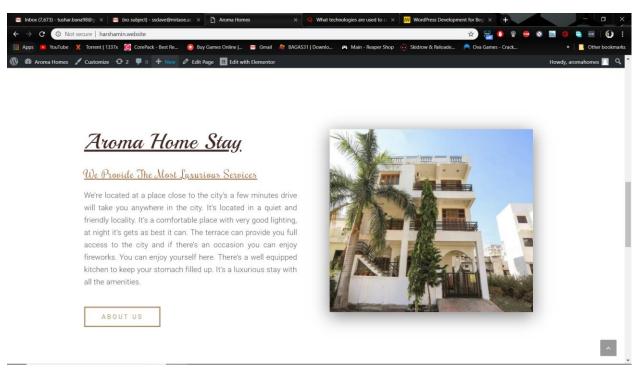
4.2.2USING NEW DOMAIN

This option will require you picking up a secondary domain, maybe the .org equivalent of your .com site for instance, and hosting a clone of your live site at that address. This will be an added expense with the need to purchase a second domain and hosting. If your income depends on your website, it's potentially money well spent however. With a domain all of its own, your test site can now serve as your failsafe, a working clone of your site to redirect traffic to in the event that your live site goes down.

5.RESULTS

HOME PAGE | Note Control | Note According | Note Secret | Northern | Note | No





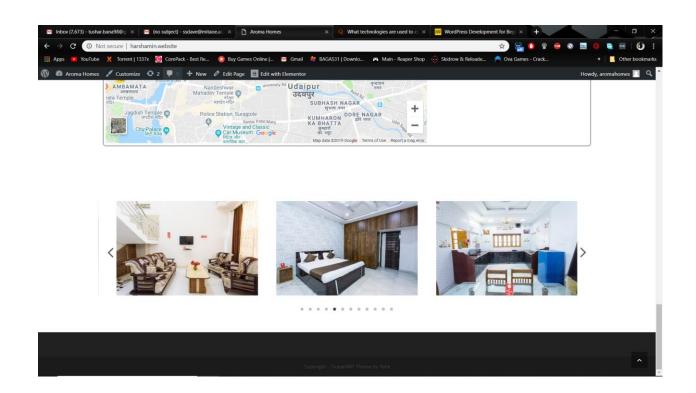
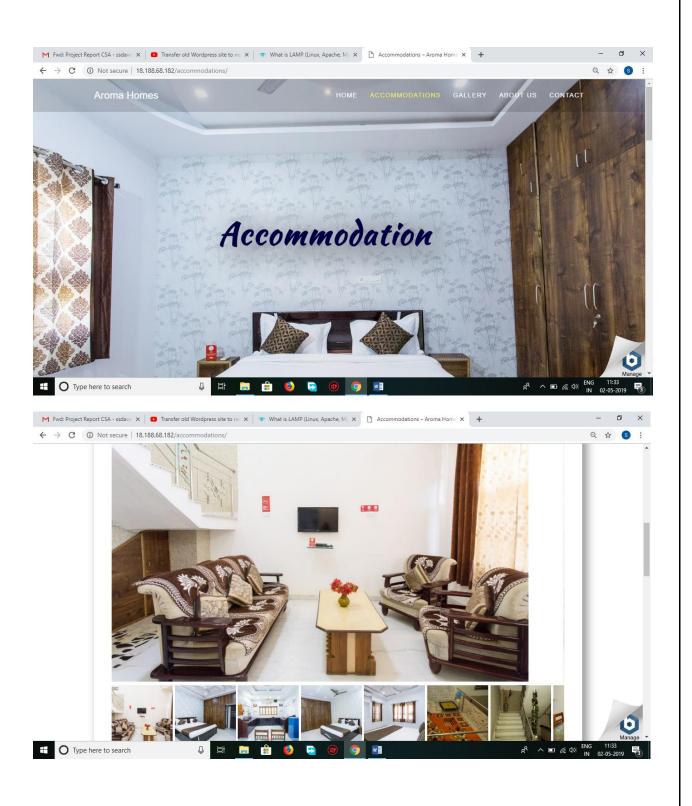
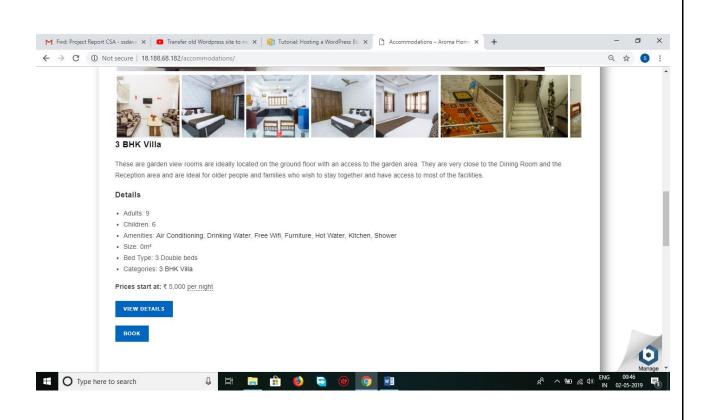
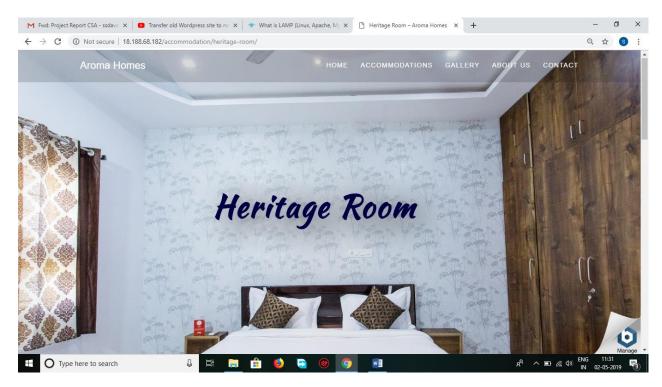


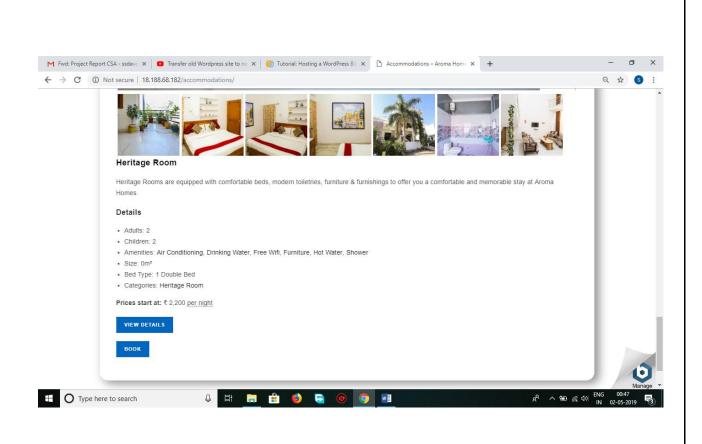
Fig 4.Home Page

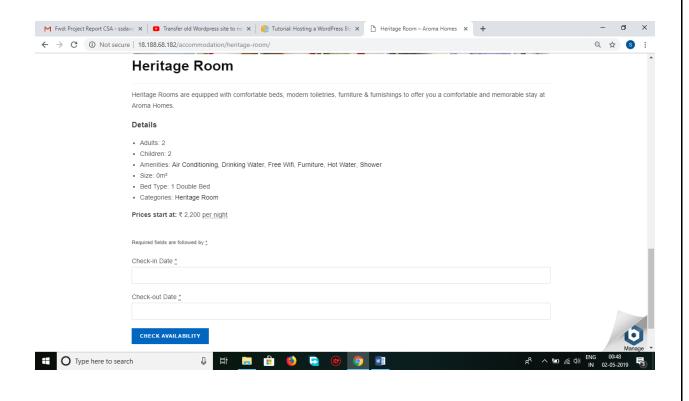
ACCOMODATION PAGE











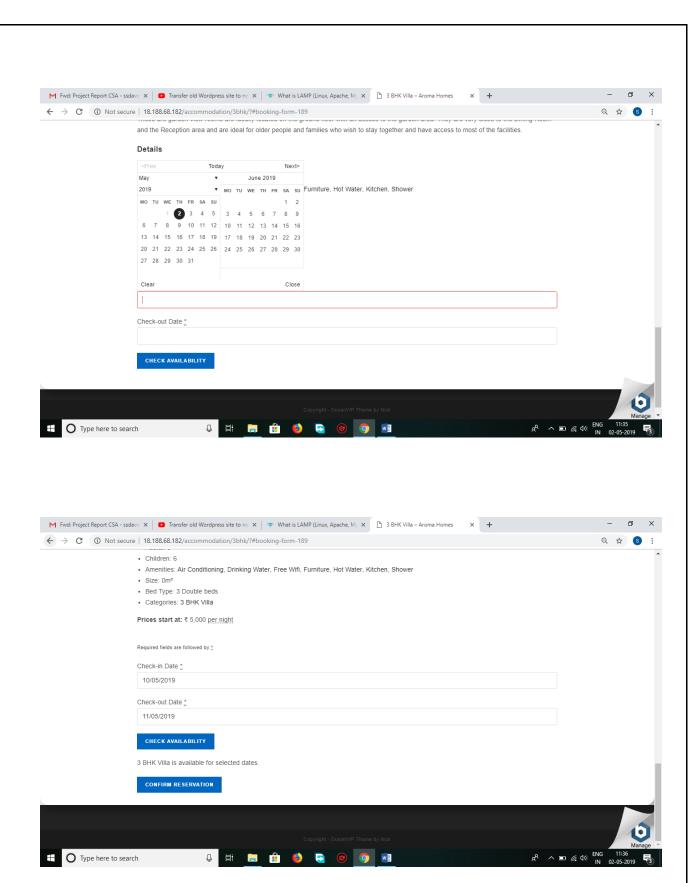
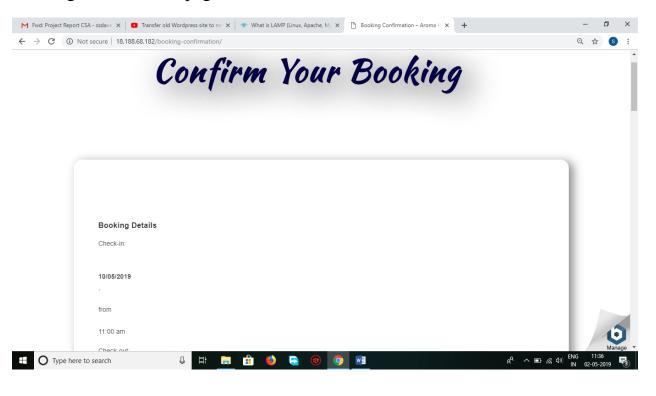
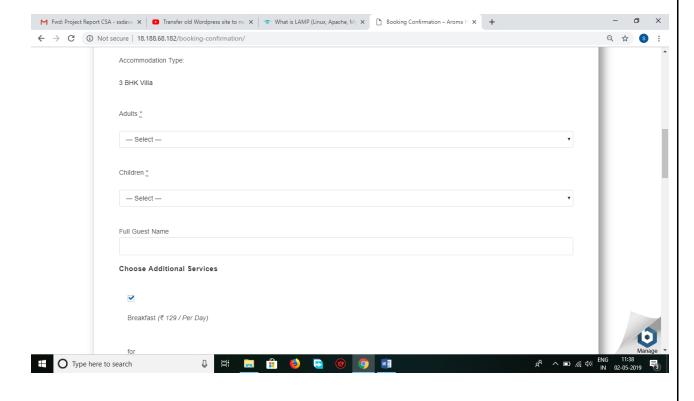
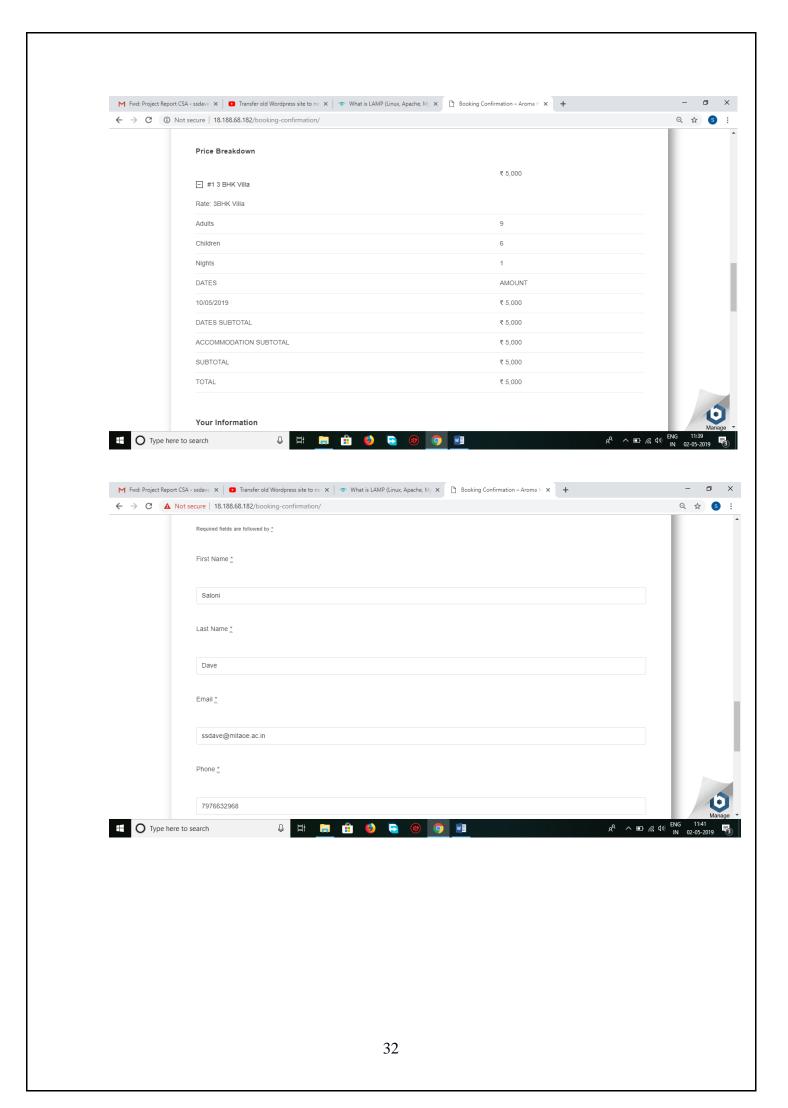


Fig5. Accomodation Page

Booking Confirmation page:







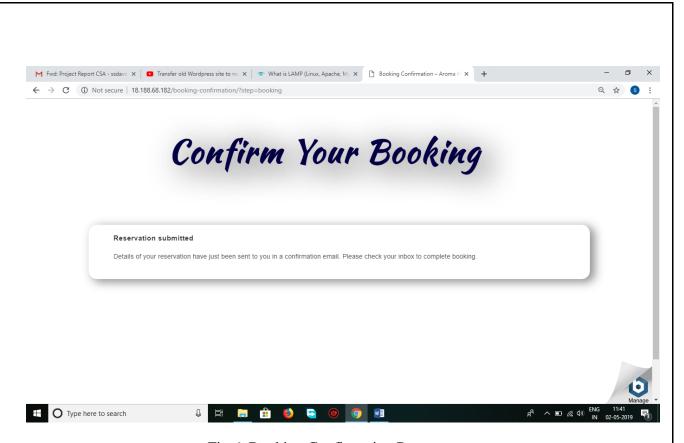
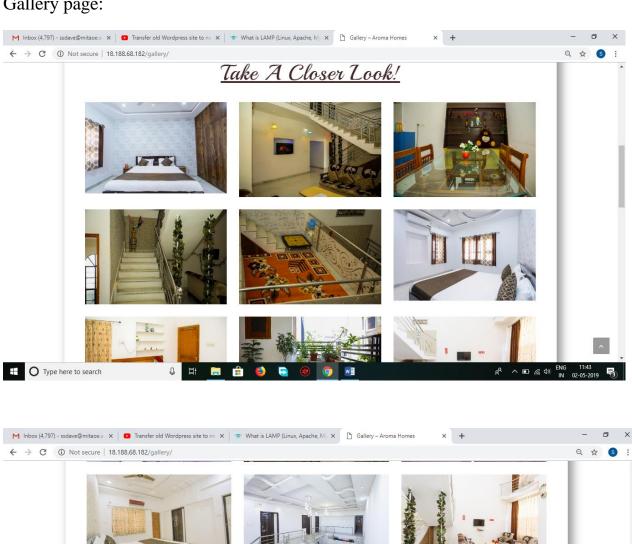
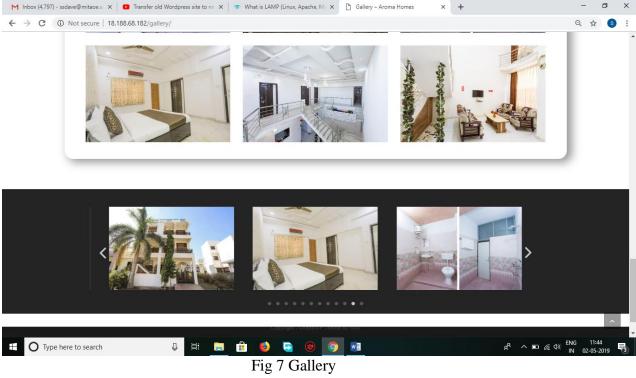


Fig 6. Booking Confirmation Page

Gallery page:





About Us page:

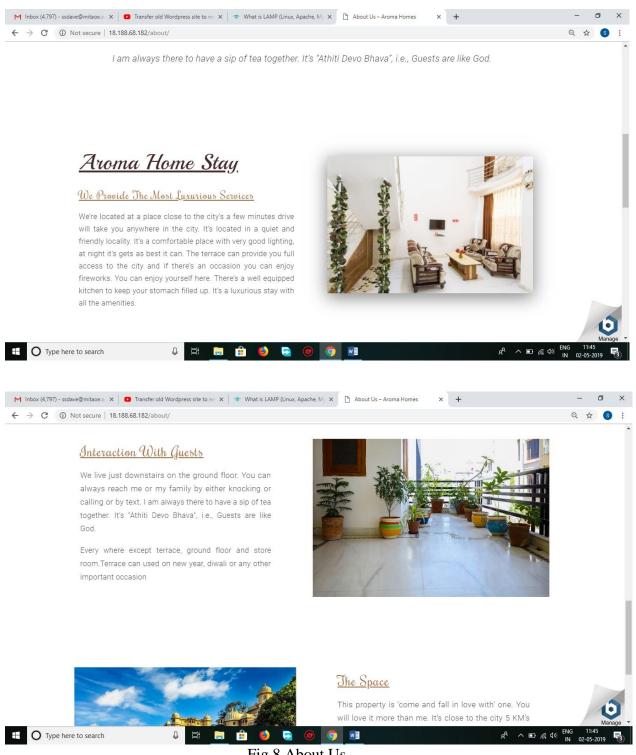


Fig 8 About Us

Contact Us page:

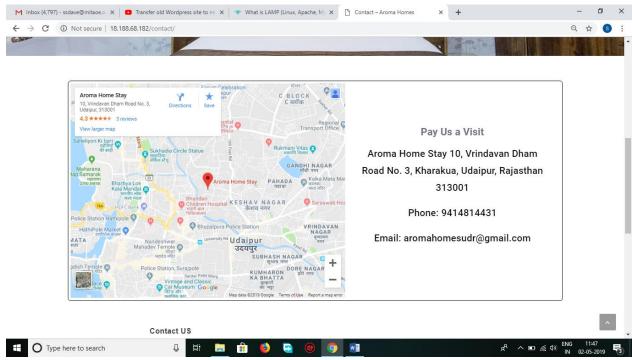


Fig 9. Contact Us

6.CONCLUSION AND FUTURE SCOPE

Major use is for the owner itself. Owner can manage all bookings from different platforms on a single platform/website. Host can get additional bookings through website advertisements. All the details of customers will be sent through emails to the host with respective details of the stay and requirements of customers. Avoid fake bookings by the feature of pre-payment.

User Friendly website will provide customers a better way to explore and plan their stay through the website. Contact details of the host will be directly available to the customers for any queries and support will be available. Customers can later on review their stay on the website to help reach out other customers.

Future Scope:

- Discount coupons for the customers booking through the official website and referral program
- ➤ Booking trip advisors/guide and travel packages on the website
- > Pre-booking food and meal packages
- ➤ Calendar Sync feature to easily access data of all the bookings from everywhere at one place.
- Search Engine Optimization for better positioning of the website on search engines
- ➤ More payment option availability

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