**PRAKSA**

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**Booking system**

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Revision History

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| --- | --- | --- | --- |
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1. INTRODUCTION

In this document will be described in detail the web application for booking apartments.

1. GENERAL OVERVIEW
   1. Technologies used

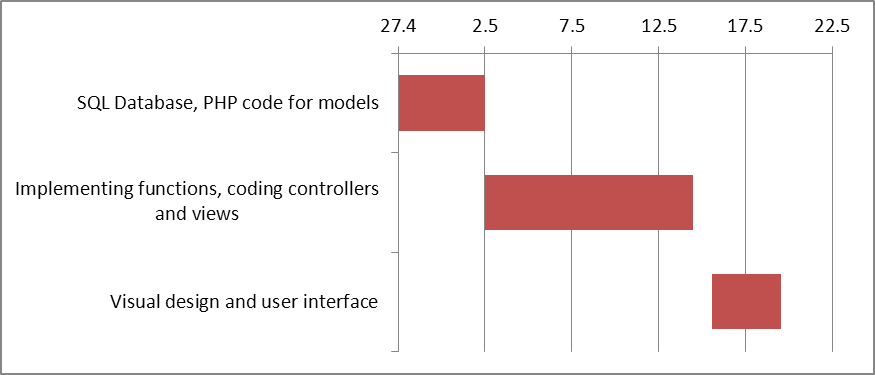
Booking system is a web based application constructed using Phalcon PHP framework, MySQL database engine, Google Maps and Nginx web server.

* 1. General description

The booking application will allow the visitors to search through a plethora of geographical locations of which each offers a diverse set of apartments for rent. The specifications of each apartment unit is customizable by either the owner of the said unit or the website administrator.

Visitors to the site can search for a specified apartment unit but in order to read all available information about it, including location, price, photo gallery and other features. If the apartment is currently reserved, an expiration date is also showed, if not, the user can book a reservation for a specified number of people and for a specified amount of time.

* 1. Development plan



1. FUNCTIONAL SPECIFICATIONS

The following are the mayor system functions:

### Home page

The first page that all visitors to the site will see will be the homepage which will contain a photo gallery with all pictures that describe the tourist object in question. The visitor will be able to navigate through the gallery by the use of a slider containing thumbnails with the selected picture being displayed in the centre of the webpage.

In the corner of the page will be embedded a Google map picture which can be clicked on to bring up a larger Google map interface. Text here will be minimal, rather, clicking on the link will bring up a detailed description of the tourist object containing various information like features of the building or historical information. These would be customizable through using a special interface accessible only by the administrator.

### Login screen

A login screen for visitors to sign in in order to gain access to advanced features of the application. This is also the screen where the users who did not register or login will be redirected in case of trying to access unauthorized pages. The system’s administrator can also use this screen to access the frontend customization options.

### Search screen

The search screen will allow users to list through the apartments using a specific criteria like, availability status, price range, extra features. The results could then be sorted by various parameters like alphabetically, by price, by availability etc.

### Individual apartment information

From the search results screen it will be possible to open a page which describes in detail a single apartment unit. This description must contain information about price, size, room details (number of bathrooms, bedrooms etc.), rating and category and other extra features.  
Every individual apartment will also have its own photo gallery.

If the apartment is currently not available, a calendar will show the exact checkout date of the current occupants which will help the users to plan the exact date of their reservation.

There will also exist a special interface accessible only by the administrator by which he will be able to update and expand the text description, feature list and the photo gallery of every apartment.

### Reservation page

Registered users can book a desired apartment by filling the necessary form. Data provided must include the date at which they would first check in, duration of the stay and the number of guests in a group. During the process at the side will be showed the calculated price based on the number of guests and duration. These information will then be send by email to the apartment owner to await confirmation.

### Multilingual support

Web application will be available in two languages, English and German, with additional languages being available to add post-development.

### Price editor

An administrator-only option which allows the owner to specify not only the prices for each apartment, but also to define seasonal periods of which every will have a unique price setting. Apartments can then be joined to these periods in order to easily categorize their prices.

1. REQUIREMENTS

The booking system can run on most operating system, it has been tested on all major web browsers(Firefox, IE, Chrome, Opera and Safari) and it has not encountered a problem.

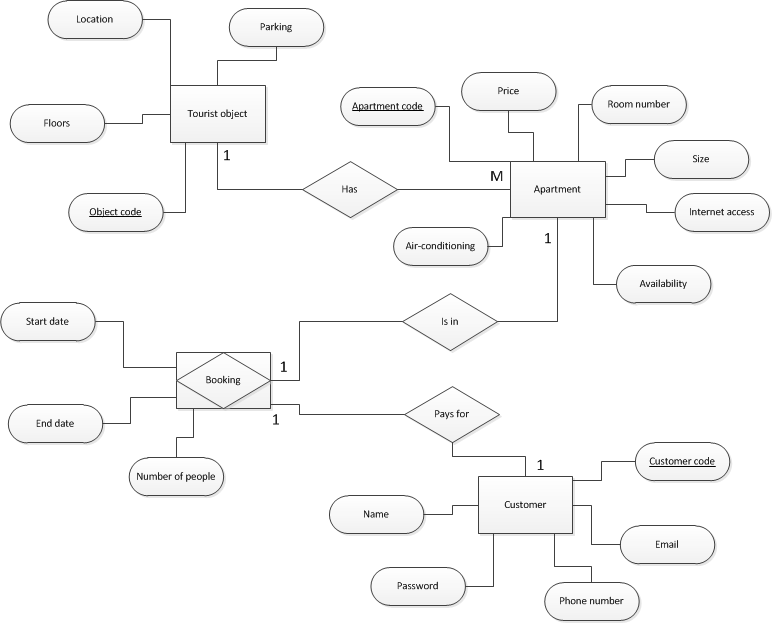
Of the technologies used the minimum versions required are:

-Nginx 1.7.0

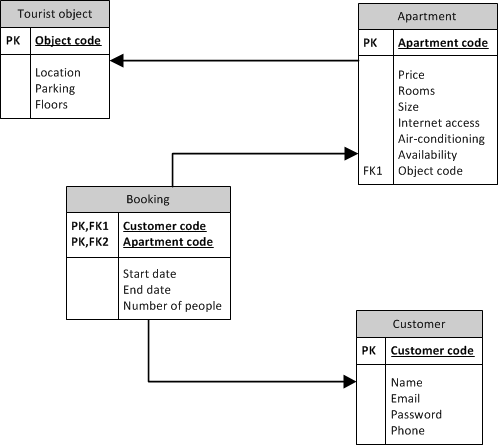
-MySQL 5.5

-PHP 5.4.3

1. DATA MODELS
   1. ER Diagram

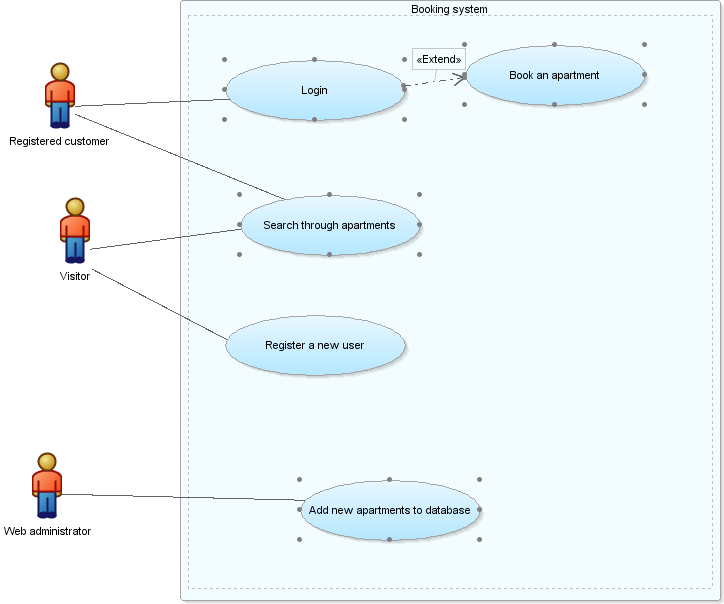


* 1. Database model diagram

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# 6. ANALYSIS MODELS

## 6.1 Use case



## 6.2 Sequence diagram

