Software Proposal Document for project Jardin

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Table 1: Document version history

Proposal Version	Date	Reason for Change
1.0	9-April-2021	Proposal First version
2.0	4-May-2021	Adjusting motivation, academic, problem statement and assigning stakeholders

GitHub: https://https://github.com/nourelgarhyy/Jardin

Abstract

Coworking spaces have become increasingly common among freelancers, information workers, and start-up communities in modern cities. Coworking spaces can become a burden sometimes; a person can never know when it is the right time to go there since people can never know if it'll be too crowded or if there will be space for him/her at all. The coworking space could provide a more controlled environment than that one might find in a cafe. This project will ensure a safe communication channel between freelancers, students, or people and the coworking space. The development process aimed to make communication easier and safer to establish. The proposed solution is a web application that will facilitate the communication between Jardin and people. Jardin web application aims to ensure a seamless experience from landing on the web application until physically landing on the space. It will be easier to reserve or contact the coworking space without going through phone calls or other procedures that may cause loss of time, and for some people, anxiety.

1 Introduction

1.1 Background

There has been a noticeable shift in the way our everyday lives work, our client's vision was inspired by that change. Jardin is an open-air coworking space that offers its clients a haven to work and enjoy a day out. This project aims to provide the users with an ultimately safe environment through online communication and reservation systems. Accordingly, avoid the hassle of offline booking that not only is problematic due to COVID-19 precautions, but also has been proven to cause unnecessary anxiety to many individuals.

1.2 Problem Statement

People nowadays tend to feel safer in their homes more than any other place due to the situation that has been going on for over a year now with COVID-19. Most people now work, study, and take classes from home, but that could sometimes be boring and mentally exhausting for people who miss their old lives. Coworking spaces have been existing for quite some time now; going to a coworking space is a simple form of change if someone wants to work or study in any other environment other than his/her house. Nevertheless, a coworking space is usually a closed area, and that could be problematic these days.

1.3 Motivation

Jardin is a new place that could be thought of as an outdoor coworking space. And because the experience of the clients is valued, Jardin wants to ensure their clients start their experience the moment they browse their web application. Many people put off visiting places or ordering things online when they find a not-so-welcoming web application. Aligning with the client's general vision of creating the best client experience, a web application will be developed that would instigate their clients' experience when they land on the web application. This web application will also provide a calendar for clients to view upcoming events and facilitate reservations. Many people avoid going through different experiences because of something as inconsequential as a poor web browsing experience. The problem occurs if an interface is not very smooth and seamless. The current solutions available are usually in making the user feel invited and directed. A possible improvement to the current solution is having our web application act as a tour d'horizon.

2 Project Description

This project main purpose is to facilitate communication between clients and administrators, help the reservation process and create a seamless user experience. First, allow the user to move around the booking system comfortably. They should find what they need in at most 4 clicks. Second, user should be presented with options to book instantly. Third, open a communication channel between client and administrators. Finally, provide our users with a live location map to aid their trips

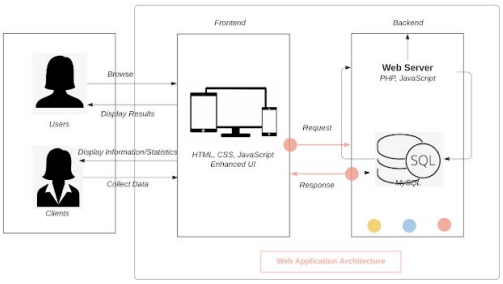

Figure 1: web application architecture

2.1 Objectives

- Creating a medium between the owners and clients for taking requests with loading at most 3 pages.

- Users should find what they need in at most 4 clicks by the end of the design period.

- Users should view the basic services without having to signup, it's only when they're reaching the last step which is the reservation they'll have to signup.

- Users should get the feeling of wanting to signup after using the basic features of the web application rather than having to signup.

2.2 Stakeholder

2.2.1 Internal

Leader: Mahy Ayman:CSS for homepage and contact page.
Team Members: Nour Mahmoud: PHP for user information using SQL,
Zeina Tamer: PHP for booking information using SQL,
Mariam Othman: CSS for forms and booking page.

2.2.2 External

Jardin end users are the owner/s of the business and their clients.

3 Similar System

3.1 Academic

Students in computer science department in Nigeria [1]., developed an online booking system for cinema house. The work analyzed the introduction of e-services which shows that e-commerce website can promote a trendy way for people to perform booking/reservation and also suggested online booking systems can be developed for bus stations, airports, hotels, cinemas, coworking spaces and other centers that engage in reservation. The researchers used Hypertext MarkUp Language, Cascading Style Sheet and JavaScript for the front end and MySQL database as the back end; and PHP as the scripting language. The paper however failed to mention any obstacles that the researchers has gone through either in implementation nor in business field.

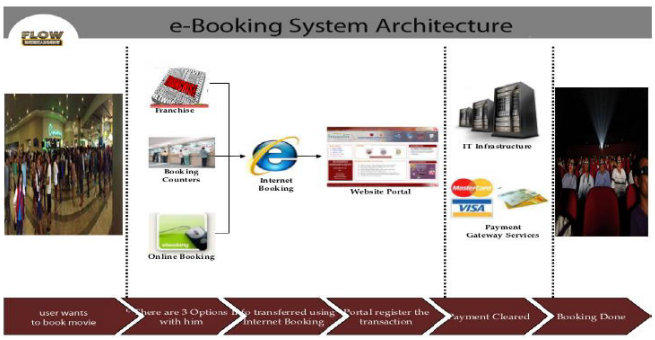

Figure 2: The System architecture of the proposed system

3.2 Business Applications

Similar applications revealed that a number of websites search for several co-working places at once and are not dedicated to a single one. This concept is good for searching for any random offices around the client, but it struggles to create a direct contact between the clients and each office. One of the few dedicated web applications we found was that of the 'MQR' coworking space, however the drawback it has is that the user is forced to signup to view content which creates a poor user experience. Another drawback is that the user might get lost eventually in the web application because of the number of clicks one clicks. See figure 3.2.

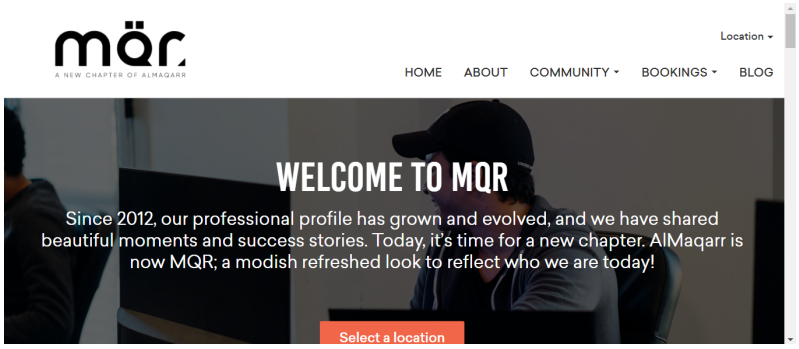

Figure 3: MQR is a coworking space

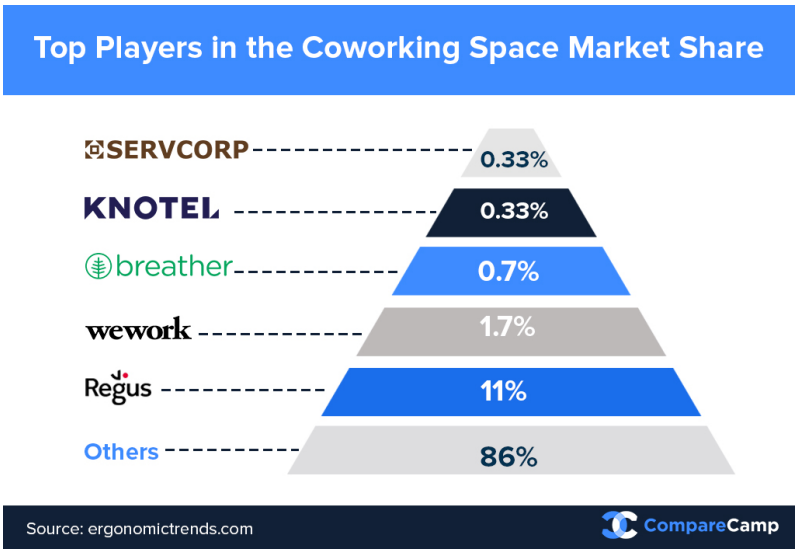

Figure 4: existing applications

4 Project Management and Deliverables

4.1 Deliverables

- A carefully constructed interactive web application.
- The project aims to produce a fully functioning and reliable reservation system.
- Deliver a monthly report of statistics about users (including their age groups, their visitation day preferences, etc.).
- Report containing reviews, average ratings and the number of visits on our application per month.
- User requests and complaints.

4.2 Tasks and Time Plan

Our Trello plan (subject to modification): https://trello.com/b/Q72TSdqc/project-roadmap/timeline

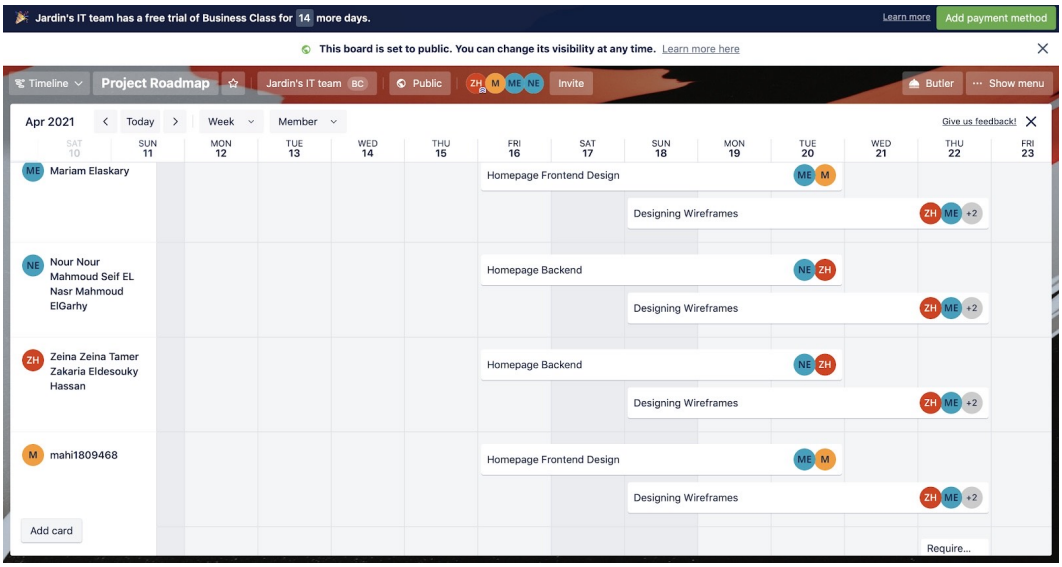

Figure 5: time plan

References

[1] RO Akinyede, TE Balogun, and Gabriel Iwasokun. “Design and implementation of an online booking system for a cinema house”. In: *Journal of Information and Computing Science* 12.2 (2017), pp. 113–122.