

Asp Project Report

mySmile Appointment Scheduling Website

Maria Afara

Supervisors: **Dr Houssien Wehbe**



Department of Computer Science

Section 5, Lebanese University

November 07, 2019

Chapter1 Introduction:

If Appointments are the vehicle that moves a service organization forward, scheduling is the fuel. Vroom, vroom. Business operations in the modern days always seem to be in a hurry. Therefore, automation becomes an important factor in business models. mySmile is one such website that helps you to schedule appointments and manages everything related to it. This scheduling system provides friendly user interfaces that allow dentists, and patients to have full access from their browser.

1.1 Methods of Appointment Scheduling

The common methods of requesting an appointment include walk-in, call-in, and online request. When a patient arrives at a clinic or calls the clinic to make an appointment, some clinics will record the appointments by using a scheduling book or a simple online appointment calendar. This is the traditional method to make an appointment, while online appointment scheduling is more popular nowadays. Compared with other methods, the online scheduling system has three advantages:

- 1) 24-hour convenience: for most clinics, phone access is only available during office hours, while online system is more convenient for patients.
- 2) Time saving: clinic staff spends less time on the phone booking and patients do not need to wait during peak hours in the clinics.
- 3) Patient's satisfaction: the online scheduling system allows patients to select physicians and time slots based on patients' preference, which will reduce no-show probability

1.2 Objectives:

The appointments website allows for quick booking and managing of patients appointments while eliminating the possibility of reiteration of the same time slot for different patients. Both dentists and patients has the access to reserve appointments. Specific objectives include:

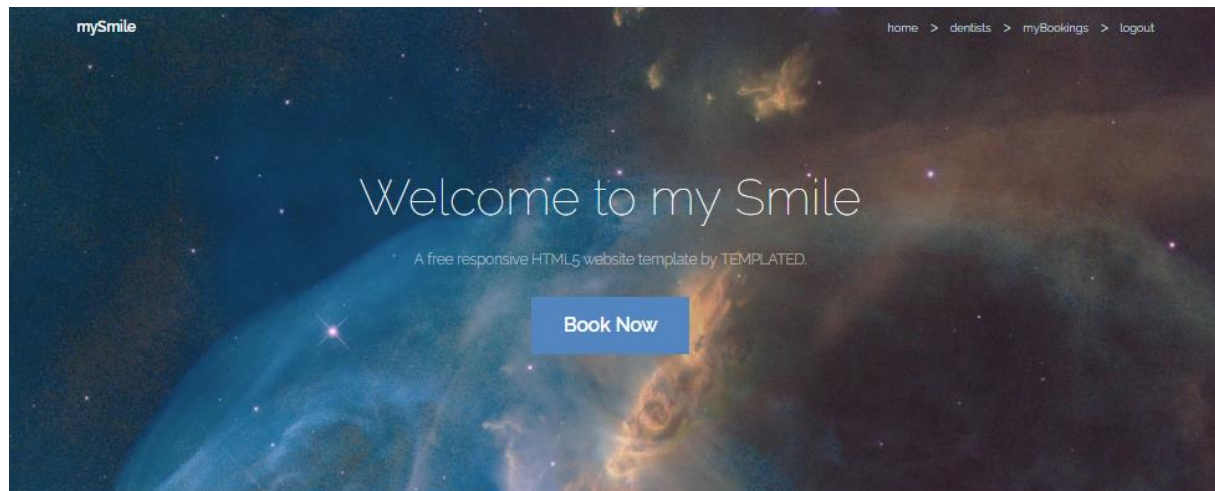
- 1- Establishment of a paperless environment
- 2- Patient does not have to wait in queue to visit the dentist.
- 3- This website saves time of both dentist and patient.

1.3 Project description

mySmile Appointment Scheduling Website is developed to improve the clinic management and automates the workflow of the clinic appointments. This system is considering scheduling appointments for dentists. Dentists will make registration of patient first. If the patient never registered before, patient information collected and stored in the database, and a unique username and password are sent to the patient through their emails. This will improve the record of the patient and save the time during the registration. And then, a patient can login and book an appointment to a specific dentist at specific date and time. Moreover patient can view information about the clinic and about the dentists and also view their appointments and cancel them. As for the dentists, this website ease the possibility for them to view their daily scheduled appointments, also viewing appointments according to the day they want. And also book appointment for certain patients.

Chapter2 Design

This website is consists of two main master pages one for dentists and other for patients. The patients master page consists of several pages which are: **home** page, **dentists** page, **mybookings** page, and **login** as we will see below in the pictures.



Teeth Whitening

Whitening is among the most popular dental procedures because it can greatly improve how your teeth look.

Teeth Cleaning

Teeth cleaning is part of oral hygiene and involves the removal of dental plaque from teeth (dental caries).

Quality Brackets

Orthodontics is the branch of dentistry that corrects teeth and jaws that are positioned improperly.

Our mission is to be Lebanon's most trusted dental care provider. We do this by treating our patients as valued guests and providing exceptional service in line with our 4 C's of patient satisfaction:

CARE

With decades of experience, the latest technology and modern practices, you'll get results beyond compare.

COMFORT

To ensure your experience is as pleasant as possible, the clinic is modern and lets in plenty of daylight for your ultimate comfort and wellbeing.

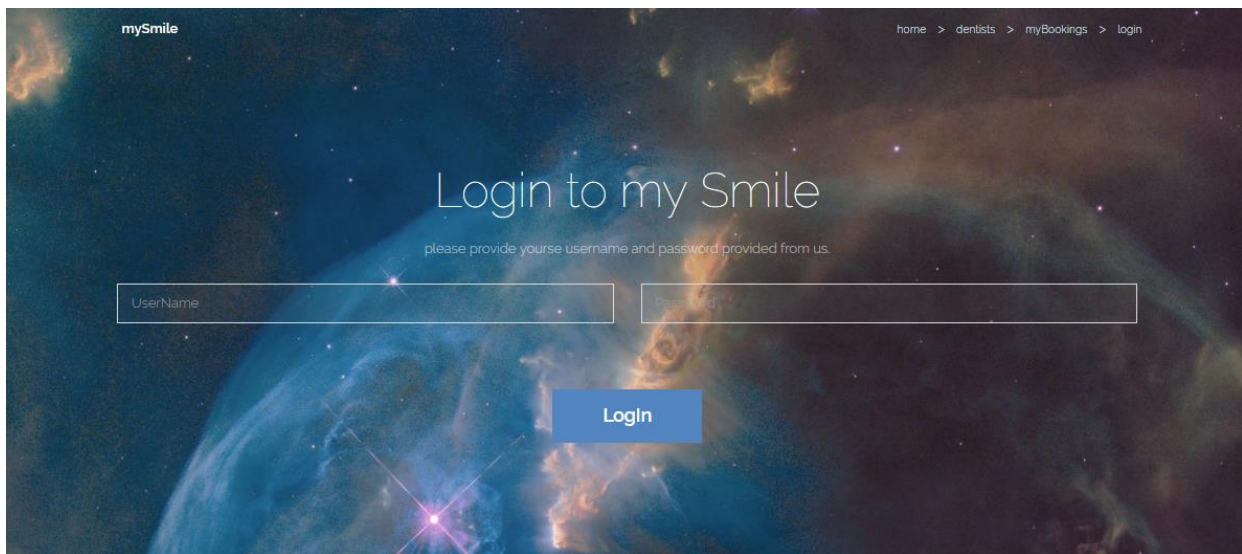
CONVENIENCE

Conveniently located in a chic, prime location of Beirut, close to the city's major attractions, hotels and business centers.

CONFIDENCE

When you choose us to provide you with the finest dental services, you immediately feel the peace of mind that our 20 years of experience and a team of highly skilled professionals exude.

Home page showing general details about clinic and showing the **bookNow** button which is clicked to schedule an appointment in the clinic. However for security reasons if one is not logged in to the system the button redirect him to the login page which force the user to login in order to book his appointment, after logging in several steps should be done for an appointment to be scheduled successfully as the figures shows:



First enter username and password, the system check if the information's are valid or not and if valid, the user is allowed to book an appointment.


Now when clicked on the **bookNow** button the following pages are opened :

mySmile

home > dentists > myBookings > logout


[Select Dentist](#) [select Date & Time](#) [Confirm](#)

Please choose a dentist




Dr. Mehdi Atwi
Dentist

[Select](#)




Dr. Habib Safadi
Orthodontist

[Select](#)



Dr. Celine Hadad
Hygienist

[Select](#)



Dr. Marwan Kamil
HollywoodSmile

[Select](#)

The **select Dentist:** select which dentist you want to have appointment with. Then when selected there comes the **Select Date and Time:**

mySmile

home > dentists > myBookings > logout

[Select Dentist](#) [select Date & Time](#) [Confirm](#)

Please choose a date

6/11/2018

May

June 2018

July

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Select time

12:00PM
1:00PM
3:00PM
5:00PM

in this page the patient selects first the desired date then a listbox filled with the available times for the date selected appears. Then a confirm button shows up to complete the booking.

mySmile

home > dentists > myBookings > logout

Select Dentist select Date & Time Confirm

Confirm your booking

No dates selected.


Date :	6/11/2018
Start time :	1:00PM
End time :	2:00PM
Dentist	Dr. Mehdi Atwi

Confirm Book

The dentist page shows details about the dentists with images and for each dentist list of name of available days.

mySmile Team


A CARING, FRIENDLY TEAM OF DENTAL PROFESSIONALS IS AVAILABLE 24/7



Dr. Mehdi Atwi -Dentist

Diagnose and treat problems with patients' teeth, gums, and related parts of the mouth. They provide advice and instruction on taking care of the teeth and gums and on diet choices that affect oral health.



MonWedThurFri



Dr. Habib Safadi -Orthodontist

Examine, diagnose, and treat dental malocclusions and oral cavity anomalies. Design and fabricate appliances to realign teeth and jaws to produce and maintain normal function and to improve appearance.

MonTuesWedThurFri



As for the dentists Main pages: a dentist can book an appointment for himself by selecting the date and the patient and the preferred time.

The screenshot shows the mySmile booking interface. At the top, there is a blue header with the mySmile logo on the left and navigation links 'BookNow > myAppointments > logout' on the right. Below the header, the interface is divided into several sections. On the left, there is a calendar for June 2018. The calendar shows days from Sunday to Saturday. The date 21st June is highlighted in blue. To the right of the calendar, there is a search bar with the text 'search' inside. Below the search bar, there is a list of patients: abbass hijazi, aboudy aoun, alaa sultan, ali hijazi, barakat Alchamm, manal salman, marcel aoun, maria afara, mariam aoun, and mary afara. To the right of the patient list, there is a list of times: 8:00AM, 9:00AM, 12:00PM, 1:00PM, 2:00PM, 3:00PM, 4:00PM, and 5:00PM. At the bottom of the interface, there is a 'Book' button.

As you can see in the above figure , the dentist logged in is dr.Mehdi and he don't treat on Tuesday thus the Tuesday days can be selected .As well as , the Sundays and Saturdays where the clinic is closed.

Further a dentist can see today's appointments and also search for a specific day appointments he has:

mySmile

BookNow > myAppointments > logout

Today

Start	End	Patient
10:00AM	11:00AM	samer swed

June 2018						
Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Start	End	Patient
8:00AM	9:00AM	abbass hijazi
9:00AM	10:00AM	maria afara
10:00AM	11:00AM	manal salman
11:00AM	12:00PM	barakat Alchammas
3:00PM	4:00PM	rayan murtada
5:00PM	6:00PM	samer swed