

Computer science Project Seminar

DocScheduler

User Manual

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DocScheduler is a web application designed to streamline the process of scheduling healthcare appointments. It provides a userfriendly platform for managing doctor appointments, accessing healthcare facility information, and maintaining patient records. The application supports three distinct user roles: Visitor, Patient, and Doctor, each with specific functionalities tailored to their needs.

User Roles and Functionalities

1. Visitor

Description: A Visitor is an unregistered user who can access basic information on the platform.

Functionalities:

- View general information about hospitals and doctors.
- Register to become a Patient.

2. Patient

Description: A Patient is a registered user who has created an account on the platform.

Functionalities:

- Schedule appointments with doctors.
- View and manage personal information and appointment history.
- Access detailed information about healthcare facilities and available doctors.

3. Doctor

Description: A Doctor is a professional user responsible for providing medical findings to patients.

Functionalities:

- View scheduled appointments with patients.
- Add medical findings for patients with appointments.
- Submit findings to conclude patient visits.

User Journey

1. Landing Page (Figure 1)

Upon visiting the DocScheduler website, users are greeted with the landing page, featuring:

A navigation bar with the following elements:

- Logo: Clicking the logo redirects the user to the landing page from any part of the website.
- Features: Provides information about the platform's capabilities.
- Find Doctor: Directs users to a list of healthcare facilities.
- Log In: Takes users to the login page.
- Help: Links to the help center.

A prominent section with a "Find a Doctor Now" button, which, when clicked, displays a list of all hospitals in Slovenia (Figure 2).





2. Finding Healthcare Facilities (Figure 2)

Users can view a list of healthcare facilities, such as the "Klinični center Ljubljana," with details including:

- Address (e.g., Zaloška cesta 2, Ljubljana).
- Specialties (e.g., Cardiology, Pediatrics).
- Doctors (e.g., Dr. Peter Novak, Dr. Ana Šubic).

To schedule an appointment, users must log in by clicking the "Log in Now" button, which redirects them to the login page (Figure 3).



Figure 2 Finding Healthcare Facilities

3. Login Page (Figure 3)

Users enter their email and password to access their account.

New users can navigate to the registration page to create an account.

🛱 DocScheduler		Features	Find Doctors	Log In	Help
L P P B B B B B B B B B B B B B B B B B	ogin nail: inter your email inter your password Log In	reatures	Pind Doctors	Log in	пер
O	Don't have an account? <u>Register here</u>				

Figure 3 Login Page

4. Registration Page (Figure 4)

To register, users must provide:

- First Name
- Last Name
- Email
- Password (with confirmation)

Upon successful registration, users are redirected to the login page (Figure 3) to sign in.

DocScheduler		Features	Find Doctors	Log In	Help
	Register as Patient				
	Enter your first name Last Name:				
	Enter your last name Email:				
	Enter your email Password:				
	Enter your password Confirm Password:				
	Confirm your password				
	Register				

Figure 4 Registration Page

5. Patient when is login (Figure 5)

After logging in, Patients are directed to a personalized dashboard with additional navigation options:

- My Records: Displays personal information and appointment history.
- Add Appointment: Allows scheduling new appointments.
- Log Out: Ends the user session.

The dashboard retains standard navigation elements (Features, Find Doctor, Help) and includes the "Find a Doctor Now" button.



Figure 5 Landing Page when user is login

6. My Records Page (Figure 6)

Patients can view:

- Personal details (e.g., Name: Marko Petrovic, Date of Birth).
- Appointment history, including past and upcoming visits.

Health Record				Edit Profile
Date of Birth: 1990-05-15	Blood	Гуре: В-		
ହୁଅ Gender: M	Allergi	es:		
Medical History: Alergija na polen				
ppointments				+ New Appointmer
Appointments Dr. Peter Novak Completed	Dr. Peter Novak	Pending	Dr. Peter Novak	+ New Appointmer
Appointments Dr. Peter Novak Completed Dr. 2025-05-28 at 11:00	Dr. Peter Novak	Pending	Dr. Peter Novak	+ New Appointmer Pending
ppointments Dr. Peter Novak Completed 2025-05-28 at 11:00 Reason: Routine checkup	Dr. Peter Novak 1 2025-06-02 at 09:00 Reason: Routine checkup	Pending	Dr. Peter Novak 1 2025-06-04 at 10:30 Reason: Blood pressure check	+ New Appointmer Pending
ppointments Dr. Peter Novak Completed 2025-05-28 at 11:00 Reason: Routine checkup Specialty: Kardiologija	Dr. Peter Novak 2025-06-02 at 09:00 Reason: Routine checkup & Specialty: Kardiologija	Pending	Dr. Peter Novak d 2025-06-04 at 10:30 Reason: Blood pressure checo Specialty: Kardiologija	+ New Appointmer Pending k
Appointments Dr. Peter Novak Completed 2025-05-28 at 11:00 Reason: Routine checkup Specialty: Kardiologija III Location: Klinicki centar Ljubljana, Ljubljana	Dr. Peter Novak 2025-06-02 at 09:00 Reason: Routine checkup Specialty: Kardiologija IMI Location: Klinicki centar Ljubljana, Lju	Pending	Dr. Peter Novak 2025-06-04 at 10:30 Reason: Blood pressure chece Specialty: Kardiologija IR Location: Klinicki centar Ljuk	+ New Appointme Pendin k Ijana, Ljubljana

Figure 6 My Records Page

7. Scheduling an Appointment (Figure 7)

While on the "My Records" page, the user has the option to directly schedule an appointment by clicking the "New Appointment" button. The website redirects them to the appointment scheduling page (Figure 7). The user first selects a hospital and then the doctor they wish to visit. The focus is on a calendar displaying available appointment slots:

- Green dates indicate days when the doctor has no scheduled appointments.
- Yellow dates indicate days when the doctor has at least one scheduled appointment.
- Red dates indicate days with no available appointment slots. After selecting a date, the user chooses a specific time for the appointment and enters the reason for the visit in the provided field. By clicking the "Schedule Appointment" button, the user confirms the booking, and the website returns them to the "My Records" page (Figure 6).

Add Appointment

ospitui.																
Klinicki centar	Ljubljana, Ljublj	jana														`
octor:																
Dr. Peter Nova	ak (Kardiologija)															```
ate:																
					•	All avail	able 🤇	Partially	booked	Fully be	ooked					
							Ju	ne	v 2025				>			
			Sun	Mon	Tue	Wed	Thu F	ri Sat								
				2	3	4	5	6 7								
			8	9	10	11	12	3 14								
			15	16	17	18	19 2	20 21								
			22	23	24	25	26 2	27 28								
			29	30	1	2		4 5								
			6	7	8	9		1 12								
me:																
08:00	08:30	09:00		09:30		10:	00	10::	0	11:00		11:30	12:	00	12:30	13:00
13:30	14:00	14:30		15:00		15:	30									
eason:																
							C 1									

Figure 7 Scheduling an Appointment

8. Doctor's Appointment Management (Figure 8)

Doctors can view their scheduled appointments and select a patient to add medical findings by clicking the "Add Findings" button, which navigates to the findings page (Figure 9).

Appointments					+ New Appoint
Ana Jovanovic	Pending	Luka Zupan	Pending	Marko Žibret	Per
i 2025-06-02 at 08:30 €		2025-06-02 at 09:00		2025-06-03 at 14:30	
Reason: Routine checkup		Reason: Follow-up		Reason: Check for pain	
IRE Location: Klinicki centar Lju	bljana, Ljubljana	IRE Location: Klinicki centar I	jubljana, Ljubljana	IRE Location: Klinicki centar Lj	ubljana, Ljubljana
🔒 Add Findin	gs	🗎 Add Fin	dings	🔒 Add Find	ings
Dusan Todorovic	Pending	Pera Peric	Pending	Emir Goga	Pe
t 2025-06-05 at 10:00		2025-06-09 at 13:00		i 2025-06-10 at 08:00	
Reason: Vaccination		Reason: Consultation		Reason: Routine checkup	

Figure 8 Doctor's Appointment Management

9. Adding Medical Findings (Figure 9)

Doctors can:

View patient information (e.g., Name: Ana Jovanovic, Date of Birth: 19850522).

Review previous findings for the patient.

Add new medical findings for the appointment.

Submit findings by clicking the "Submit" button to conclude the visit.

𝕹 Add Medical Findings			
Patient: Ana Jovanovic	Date: 2025-06-02	Time: 08:30	
Hospital: Klinicki centar Ljubljana, Ljubljana	Reason: Routine checkup		
Patient Information			
	GENDER		
1985-08-22	Ž		
BLOOD TYPE	ALLERGIES		
None	None None		
Hipertenzija			
Clinical Findings & Observations			
Enter detailed findings, observations, diagnosis, and treatment recom	mendations		1
Criter detailed findings, observations, diagnosis, and treatment recom	Findings & Mark Complete		//.
Submit F Previous Completed Appointments	Findings & Mark Complete		11.
Submit F Previous Completed Appointments 2025-05-15 at 09:00	Findings & Mark Complete		11.
Completed Appointments Completed Appointments Completed REASON FOR VISIT	Findings & Mark Complete		li.
Submit f Submit f	Findings & Mark Complete		11.
Current operanied findings, coservations, diagnosis, and treatment recommends Submit if Submit if Completed Appointments Completed Appointments REASON FOR VISIT Routine checkup CLINICAL FINDINGS	Findings & Mark Complete		11.
Submit i Submit i Submit i 2025-05-15 at 09:00 Completed REASON FOR VISIT Routine checkup CLINICAL FINDINGS Normal results, no issues found	Findings & Mark Complete		11.

Figure 9 Adding Medical Findings

10. Help Center (Figure 10)

The Help Center (Figure 10) provides users with resources and guides for scheduling appointments, getting started with the platform, and finding doctors.

? DocScheduler Help Center **Scheduling Appointments** 📅 How to Book an Appointment Booking an appointment is simple and straightforward: 1. Click on "Add appointment" in the navigation bar or click "Schedule Appointment" from the map **Getting Started** 2. Select your preferred hospital from the dropdown menu 3. Choose a doctor from the available specialists Creating an Account Logging In Creating an Account In use DocScheduler's features, you'll need to create an account first: If you already have an account If you already have an account If you already have an account I. Click too "Log In" in the nonyadion bar 2. Select "Register here" at the bottom of the login form 2. Select "Register here" at the bottom of the login form 3. Click the "Log In" but the top nanigation bar 4. Click "Register" to create your account If you've forgotten your password, please con 4. Select a date on the calendar (green dates indicate full availability) 5. Choose an available time slot (shown in green) 6. Enter the reason for your visit 7. Click "Schedule Appointment" to confirm The color-coding system on the calendar helps you quickly identify availability: w.unx. register' to create your account. If you've forgotten your password, please contact support for assistance with resetting it. • Green: All slots available • • Yellow: Partially booked • • Red: Fully booked scheduling and health record management. Managing Your Health Records **Finding Doctors** Viewing Your Health Record Constraints Constraint • Using the Interactive Map Our interactive map helps you find healthcare facilities near you: 1. Navigate to the homepage and scroll down to the map section 2. Click on any marker to view details about that hospital 3. View available specialties and doctors at that location 4. Click "Schedule Appointment" to book with a doctor at that facility Maintaining accurate information ensures your healthcare providers have the most current data for your care. The map shows all partner hospitals in your region with real-time information about available specialists

Figure 10 Help Center