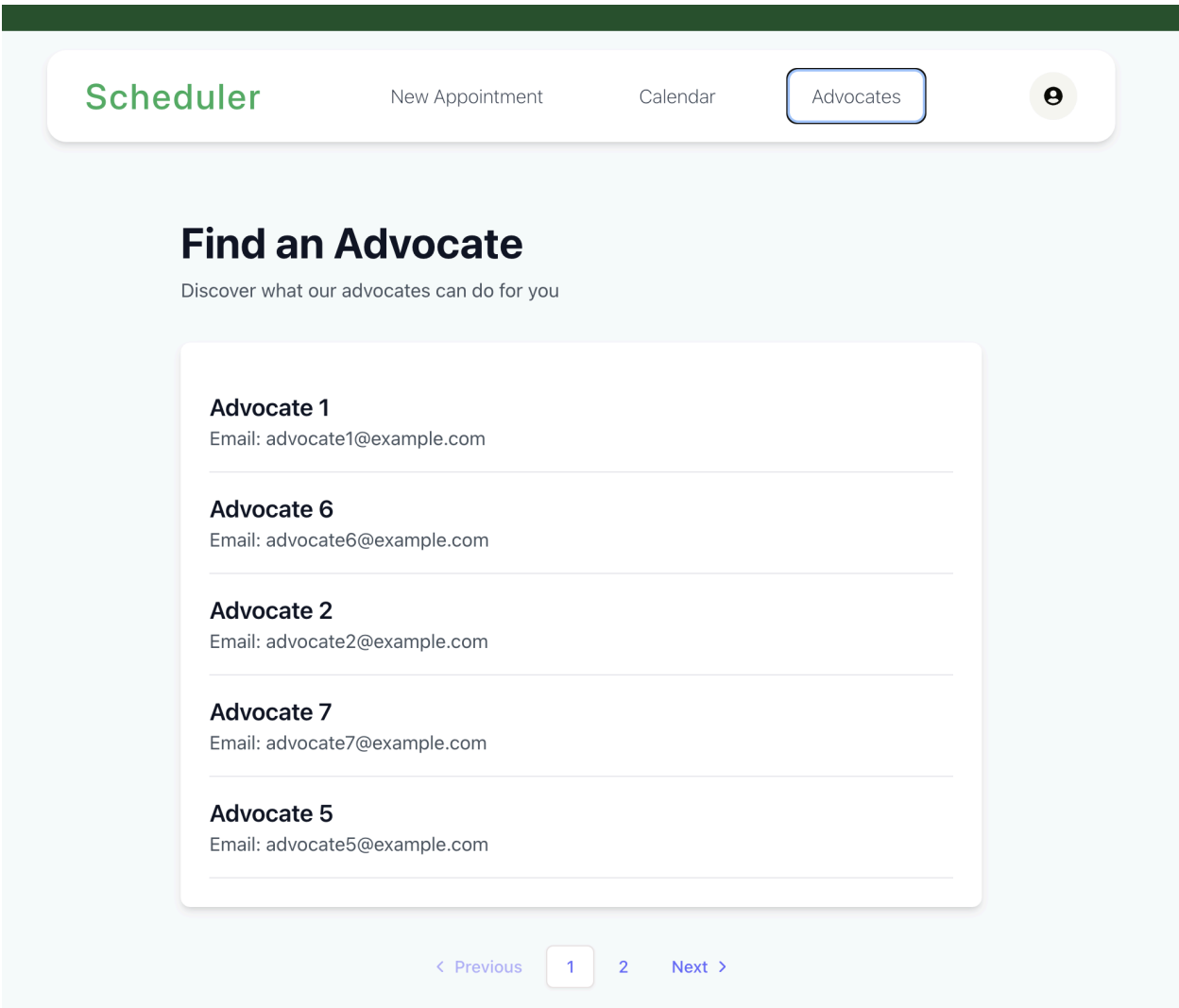


# Appointment Queue Manager — Product Documentation

## 1. Product Overview

Appointment Queue Manager is a full-stack web application designed to streamline appointment scheduling and management. It allows users to browse available advocates, book appointments, and manage schedules efficiently. The system also provides a robust backend API for managing data and supporting business logic.

The application is ideal for organizations needing a structured, user-friendly solution for appointment coordination and resource management.



Scheduler

New Appointment

Calendar

Advocates

## Your Appointment Calendar

View and manage all your scheduled appointments

← Prev

January 2026

Next →

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 1   | 2   | 3   |
| 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| 11  | 12  | 13  | 14  | 15  | 16  | 17  |
| 18  | 19  | 20  | 21  | 22  | 23  | 24  |

Thursday, Jan 22

1 appointment

Dentist App

11:00 AM - 01:00 PM

scheduled

Scheduler

New Appointment

Calendar

Advocates

## Appointment & Queue Manager

Streamline your scheduling with our intuitive appointment management system. Save time, reduce no-shows, and keep your clients happy.

Welcome, cj!

What can we help you with today?

Schedule appointment →

View calendar →

Find advocates →

**Scheduler**

New AppointmentCalendarAdvocates

## Schedule an Appointment

Create a new appointment to manage your time efficiently

**Appointment Title/Description \***

e.g., Doctor's appointment, Team meeting, etc.

**Appointment Date \***

Select appointment date

**Start Time \***

Select a date first

**End Time (Optional)**

Select start time first

If no end time is specified, a 1-hour duration will be used by default.

Create Appointment

Cancel

## 2. Key Features

### Advocate Directory:

Browse, search, and filter advocates by availability or specialization.

### Appointment Scheduling:

Book, view, and manage appointments with real-time updates.

### User Management:

Register, authenticate, and manage user profiles and permissions.

### Pagination:

Supports efficient navigation of large datasets, including advocates and appointment records.

### Modern, Responsive UI:

Built with React, Tailwind CSS, and Vite for a fast and intuitive user experience across devices.

RESTful API Backend:

Powered by NestJS and TypeORM, providing scalable, maintainable, and secure endpoints for all operations.

### 3. Technology Stack

| Layer    | Technology                              |
|----------|---|
| Frontend | React, TypeScript, Vite, Tailwind CSS   |
| Backend  | NestJS, TypeScript, TypeORM, PostgreSQL |
| Database | PostgreSQL                              |

### 4. Project Structure

frontend/ # React application (UI, pages, components, services)  
backend/ # NestJS API application (modules, entities, services)

Frontend Highlights

frontend/src/pages/ — Main pages, e.g., HomePage, AdvocatePage

frontend/src/services/api.ts — API client for communication with the backend

Backend Highlights

backend/src/modules/ — Business logic modules (advocates, appointments, users)

backend/src/database/entities/ — Database models

### 5. Getting Started

Install Dependencies

```
cd frontend && npm install  
cd ../backend && npm install
```

Configure Environment Variables

Set variables as needed (refer to .env.example).

Start the Backend

```
cd backend  
npm run start:dev
```

Start the Frontend

```
cd frontend  
npm run dev
```

## 6. Authors

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