

SMS Medical Appointment Reminder Webapp Demo






<https://tinyurl.com/sms-reminder-presentation>

Presented by
Ijeoma Ezeonyebuchi
and
Steven Yan







Client Meeting

Challenges Faced:

-  Easily lose track of postcard reminders
-  Manual entry of appointments individually into calendar
-  Different levels of computer literacy for veterans

Proposed Solutions:




-  Needs calendar integration (ICS universal for all phones)
-  Develop webapp for provider
-  Develop mobile app for patient
-  Automated SMS reminder system for non-tech savvy veterans









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**Provider
End**

Brainstorming and Planning the Solution

**Patient
End**



Provider End

- Develop **web application** to interact with hospital server to send and receive relevant **information through APIs**
- Without technical details from VA, we created an interface for **manual entry** of patient appointments using a **SQLAlchemy** database within **Flask** microframework.
- Customize SMS reminders according to the following actions:
 - **confirmed**
 - **rescheduled**
 - **modified**
 - **canceled**
 - **no showed**

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**Provider
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Brainstorming and Planning the Solution

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Patient End

- Use **Twilio platform** to send and receive SMS messages
- Patients will receive **an initial text after booking** the appointment
- They will have capability to **respond to SMS to receive ICS file** for easy integration
 - iPhone have capability to create calendar event from any SMS with time details, but Android requires additional software
- At a **default of 48 hours** prior, patient will receive a **second text reminder SMS to confirm or cancel** appointment.
 - reminder time adjustable to different intervals

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Brainstorming and Planning the Solution

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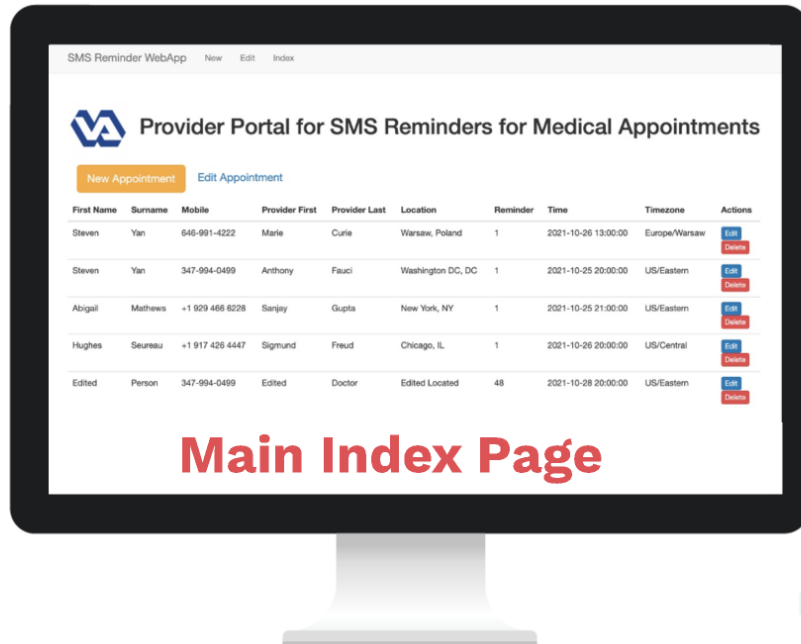


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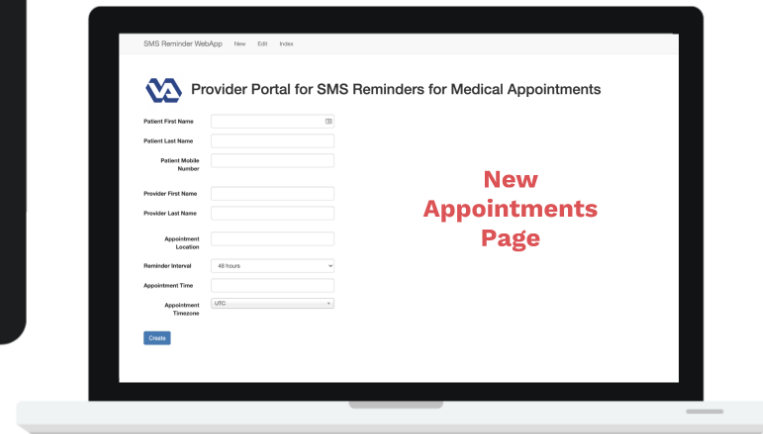
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Walkthrough

Sample
SMS
Reminders



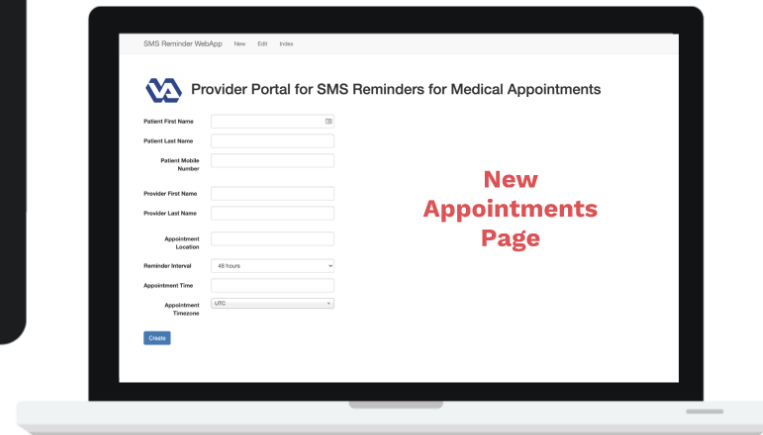
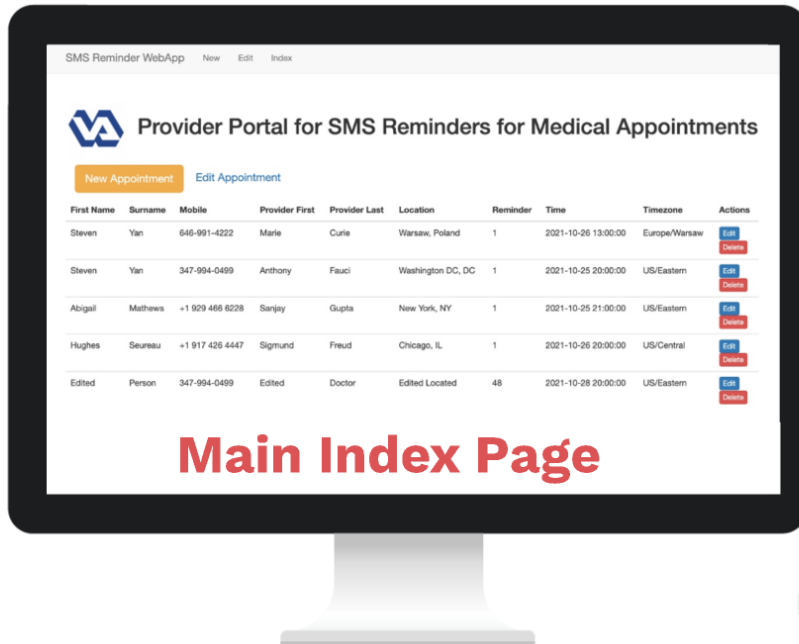
Main Index Page



New
Appointments
Page

Walkthrough

Sample
SMS
Reminders





Provider Portal for SMS Reminders for Medical Appointments

[New Appointment](#)[Edit Appointment](#)

First Name	Surname	Mobile	Provider First	Provider Last	Location	Reminder	Time	Timezone	Actions
Steven	Yan	646-991-4222	Marie	Curie	Warsaw, Poland	1	2021-10-26 13:00:00	Europe/Warsaw	Edit Delete
Steven	Yan	347-994-0499	Anthony	Fauci	Washington DC, DC	1	2021-10-25 20:00:00	US/Eastern	Edit Delete
Abigail	Mathews	+1 929 466 6228	Sanjay	Gupta	New York, NY	1	2021-10-25 21:00:00	US/Eastern	Edit Delete
Hughes	Seureau	+1 917 426 4447	Sigmund	Freud	Chicago, IL	1	2021-10-26 20:00:00	US/Central	Edit Delete
Edited	Person	347-994-0499	Edited	Doctor	Edited Located	48	2021-10-28 20:00:00	US/Eastern	Edit Delete

Main Index Page



Provider Portal for SMS Reminders for Medical Appointments

Patient First Name	<input type="text"/>
Patient Last Name	<input type="text"/>
Patient Mobile Number	<input type="text"/>
Provider First Name	<input type="text"/>
Provider Last Name	<input type="text"/>
Appointment Location	<input type="text"/>
Reminder Interval	<input type="text" value="48 hours"/>
Appointment Time	<input type="text"/>
Appointment Timezone	<input type="text" value="UTC"/>

Create

**New
Appointments
Page**

Sample SMS Reminders

Text Message
Saturday 6:20 PM

Sent from your Twilio trial account -
Hello Steven Yan, this is your friendly
reminder of your upcoming
appointment on Oct-25 at 4:00pm.
Respond 1 to confirm, respond 2 to
cancel. Please call directly to
reschedule.

Today 12:41 PM

Sent from your Twilio trial account -
Hello Steven Yan, your appointment is
booked for Oct-26 at 3:00pm. Reply 3
for ICS calender file.

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Deployment...

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