

# Sedation Assistance Application

---

## Team Name

- Super Six

## Team Member

- Jianbing Zhang
- Lu Yu
- Qinfang Shen
- Shanshan Wang
- Zhi Li
- Yanqun Xu

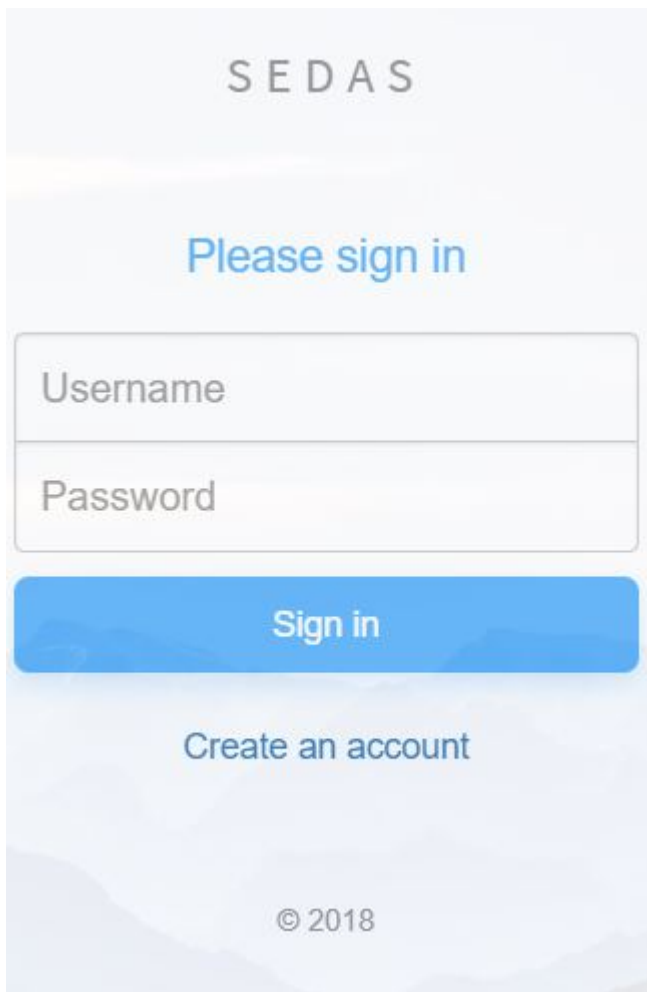
## Project Name

- Sedation Assistance Application

[Github Repository](#)

## Logging In/Registering a New User

---



SEDAS

Please sign in

Username

Password

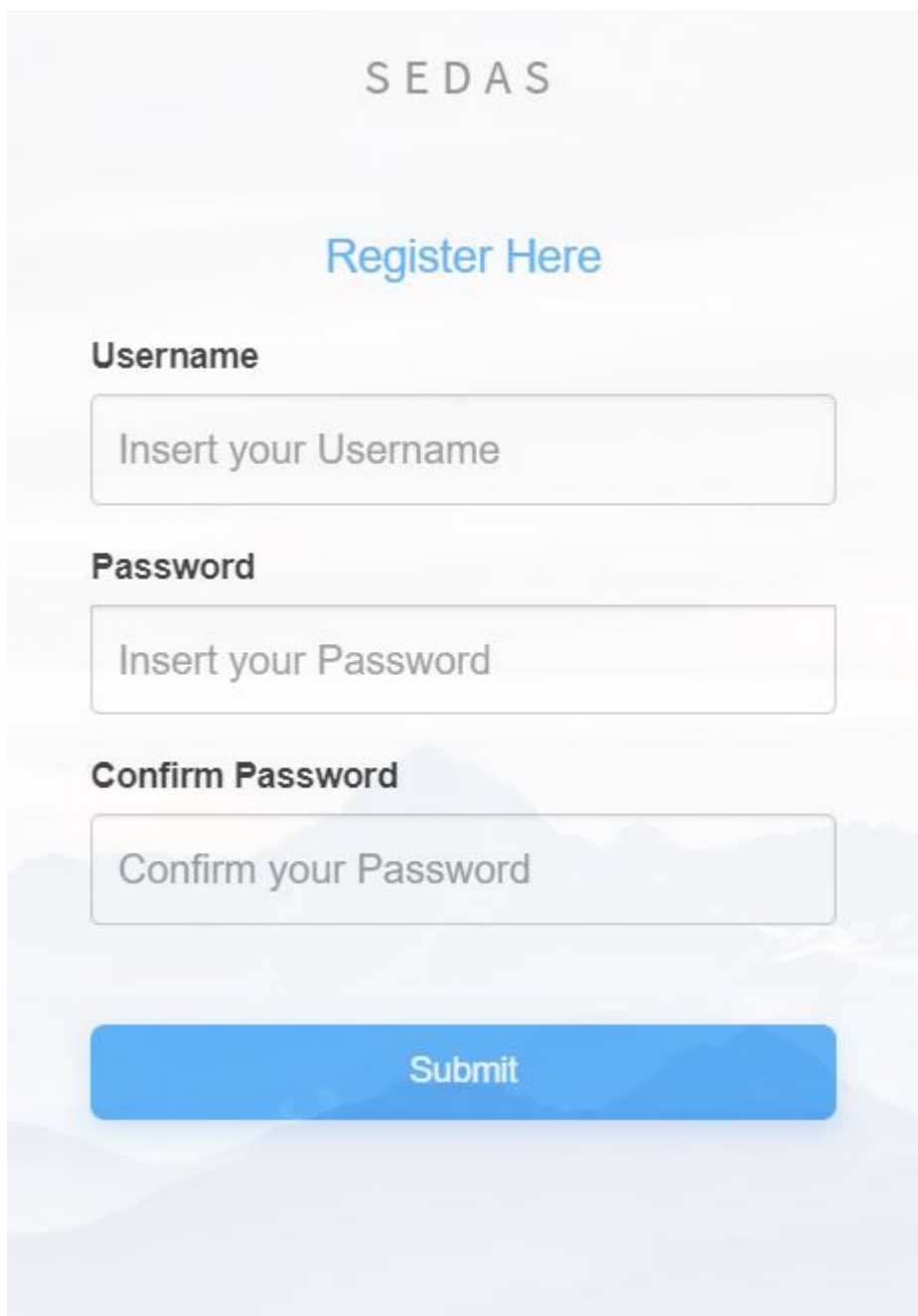
Sign in

Create an account

© 2018

### When the provider has an account already

- Enter the username and password
- Click the "login" button
- The provider will be directed to the patient search page

The image shows a web form titled 'SEDAS' with a 'Register Here' link. It contains three input fields: 'Username' with placeholder text 'Insert your Username', 'Password' with placeholder text 'Insert your Password', and 'Confirm Password' with placeholder text 'Confirm your Password'. A blue 'Submit' button is at the bottom. The background features a faint mountain landscape.

SEDAS

[Register Here](#)

**Username**

Insert your Username

**Password**

Insert your Password

**Confirm Password**

Confirm your Password

Submit


If the provider is new to the system

- Enter the username
- Enter the password
- Confirm the password
- Click the "submit" button
- The provider will be directed to the patient search page

## ⁹ Patient Search/Create New Patient

---


Once the patient log in they will be on the page to search an existing patient or create a new patient



Existing Patient

First Name
Last Name
YYYY-MM-DD

Search



New Patient

Click the button to create a new patient.

Create

- If you want to test an existing patient, you can enter the patient first name: **Ahmad** Last name: **Cassin** and the birthday: **1984-08-26**
- This patient will be pulled from the FHIR database
- If you just want to create a new patient you can click the "create" button

## ⁹ Create a new patient

After you click "create" button, you will be able to enter few information for the new patient.

SEDA S

Search Patient

Profile

Dose

Guide

Feedback

Please confirm with the following information.

1

2

3

Step 1

Step 2

Step 3

### Basic Information

<b>Last Name</b>	<b>First Name</b>
<input type="text" value="Cassin"/>	<input type="text" value="Ahmad"/>
<b>Gender</b>	
<input checked="" type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Other	
<b>Birthday</b>	
<input type="text" value="1984 Aug 26"/>	
<b>Address</b>	<b>Phone</b>
<input type="text" value="911 Gleason Skyway, Suite 861, Carlis"/>	<input type="text" value="(354) 492-4959"/>

Next

- Enter the new patient's last name
- Enter the new patient's first name

- Choose the new patient's gender
- Enter the new patient's birthday
- Enter the new patient's phone number
- Enter the new patient's Address
- Click on the "Next" button when you have all the information provided

The screenshot displays the SEDAS application interface. On the left is a sidebar with the title 'SEDAS' and five menu items: 'Search Patient', 'Profile', 'Dose', 'Guide', and 'Feedback'. The 'Profile' item is currently selected, indicated by a blue vertical bar. The main content area is titled 'Please confirm with the following information.' and features a progress bar with three steps: 'Step 1', 'Step 2', and 'Step 3'. 'Step 2' is the active step, highlighted with a blue circle. Below the progress bar, the section 'Measurements' contains four input fields: 'Height' (179.0), 'Weight' (96.75), 'Blood Pressure' (87/136), and 'BMI' (30.19). A blue 'Next' button is positioned at the bottom right of the form.

- Enter the new patient's height
- Enter the new patient's weight
- Enter the new patient's blood pressure
- Enter the new patient's BMI
- Click on the "Next" button when you have all the information provided

SEDAS

Please confirm with the following information.

1 2 3  
Step 1 Step 2 Step 3

Background

Tobacco ☒ Yes ☐ No  
Benzodiazephi Use ☐ Yes ☒ No  
Opiod Use ☐ Yes ☒ No  
Other Use ☐ Yes ☒ No

Save Patient

- Choose if the new patient use tobacco
- Choose if the new patient use Benzodiazephi
- Choose if the new patient use opiod
- Choose if the new patient use other medicine
- Now you have finished all the information and click "save patient" button
- You will be directed to the evaluation page after this

## Existing Patient - confirmation of information

If you have a existing patient number, as we said, you can enter the patient first name: **Ahmad** Last name: **Cassin** and the birthday: **1984-08-26**

This patient has complete information so the evaluation will be more successful and complete

However, even though you have an existing patinet, you still need to confirm his/her information

SEDA S

Search Patient

Profile

Dose

Guide

Feedback

Please confirm with the following information.

1

2

3

Step 1

Step 2

Step 3

Basic Information

Last Name

First Name

Cassin

Ahmad

Gender

Male

Female

Other

Birthday

1984 Aug 26

Address

Phone

911 Gleason Skyway, Suite 861, Carlis

(354) 492-4959

Next

- Confirm the existing patient's last name
- Confirm the existing patient's first name
- Confirm the existing patient's gender
- Confirm the existing patient's birthday
- Confirm the existing patient's phone number
- Confirm the existing patient's Address
- Click on the "Next" button when you have all the information confirmed

SEDA S

Search Patient

Profile

Dose

Guide

Feedback

Please confirm with the following information.

1

2

3

Step 1

Step 2

Step 3

Measurements

Hight

Weight

179.0

96.75

Blood Pressure

BMI

87/136

30.19

Next

- Confirm the existing patient's height
- Confirm the existing patient's weight

- Confirm the existing patient's blood pressure
- Confirm the existing patient's BMI
- Click on the "Next" button when you have all the information confirmed

SEDAS

Please confirm with the following information.

1 2 3  
Step 1 Step 2 Step 3

Background

Tobacco ☒ Yes ☐ No

Benzodiazephi Use ☒ Yes ☐ No

Opiod Use ☒ Yes ☐ No

Other Use ☒ Yes ☐ No

Save Patient

- Confirm if the existing patient use tobacco
- Confirm if the existing patient use Benzodiazephi
- Confirm if the existing patient use opiod
- Confirm if the existing patient use other medicine
- Now you have finished all the information confirmed and click "save patient" button
- You will be directed to the evaluation page after this

## Existing Patient - evaluation

Then you will enter the evaluation page. you will start your evaluation from here



SEDAS


Search Patient

Profile

Dose

Guide

Feedback



Ahmad Cassin

AGE 34

CONTACT (354) 492-4959

ID 9b5a23ce-a66d-44e5-9bf7-149974494e43

ADDRESS 911 Gleason Skyway, Suite 861, Carlisle, MA, 01741, US

Blood Pressure

87/136 mm/hg

Height

179.0 cm

BMI

30.19

weight

96.75 lb

EVALUATE

BACKGROUND

☒ Tobacco
 ☐ Benzodiazephi Use
 ☐ Opiod Use
 ☐ Other Use

- You can see all the basic and medical information of the patient
- On the upper right side of the page you can see a button called "evaluation"
- After clicking on the button, you will start the evaluation

SEDAS


Search Patient

Profile

Dose

Guide

Feedback



Ahmad Cassin

AGE 34

CONTACT (354) 492-4959

ID 9b5a23ce-a66d-44e5-9bf7-149974494e43

ADDRESS 911 Gleason Skyway, Suite 861, Carlisle, MA, 01741, US

Blood Pressure

87/136 mm/hg

Height

179.0 cm

BMI

30.19

weight

96.75 lb

SCORE

10

RISK

II

CALCULATE DOSE

BACKGROUND

☒ Tobacco
 ☐ Benzodiazephi Use
 ☐ Opiod Use

- You can still see all the basic and medical information of the patient
- On the upper right side of the page, now you can see the **score** and **ASA level** of the patient
- Below that there is a button called "Calculate Dose".
- According to the score, the next page will provide accordingly dose options

SEDAS


Search Patient

Profile

Dose

Guide

Feedback



Ahmad Cassin

AGE34

CONTACT(354) 492-4959

ID9b5a23ce-a66d-44e5-9bf7-149974494e43

ADDRESS911 Gleason Skyway, Suite 861, Carlisle, MA, 01741, US

BACKGROUND

☒ Tobacco

☐ Benzodiazephi Use

☐ Opiod Use

☐ Height: 179.0 cm

☐ Weight: 96.75 lb

☐ Blood Pressure: 87/136 mm/hg

☐ BMI: 30.19

Dose/Timing Options

Patient Risk Score

10

Patient Risk Category

II

Option 1:

☐ Fentryl/dose: 25 mcg IV/duration: 30s

Option 2:

☐ Midazolam/dose: 0.5 mcg IV/duration: 30s

Option 3:

☐ Naloxone/dose: 0.1 mcg IV/duration: 40s

Save and Next

- On this page, you can still see all the basic and medical information of the patient
- Also, you can see the score and ASA level of the patient
- Below that the doctor can choose one option for the time/dose for the patient
- Click on "Save and next" button, you will see the guideline for the sedation

SEDAS


Search Patient

Profile

Dose

Guide

Feedback



Ahmad Cassin

AGE34

CONTACT(354) 492-4959

ID9b5a23ce-a66d-44e5-9bf7-149974494e43

ADDRESS911 Gleason Skyway, Suite 861, Carlisle, MA, 01741, US

BACKGROUND

☒ Tobacco

☐ Benzodiazephi Use

☐ Opiod Use

☐ Height: 179.0 cm

☐ Weight: 96.75 lb

☐ Blood Pressure: 87/136 mm/hg

☐ BMI: 30.19

Guidelines

Guideline 1

During moderate sedation procedures, the person administering sedation MAY assist with MINOR tasks while maintaining adequate patient monitoring once the patient's level of sedation has been stabilized

Guideline 2

The clinician monitoring the patient should not be the same individual who is performing the procedure

Guideline 3

Deep sedation is generally defined as a state wherein there is a purposeful patient response to tactile/painful stimulation but no patient response to verbal stimulation. This is not moderate sedation. Persons providing this level of sedation should be trained in anesthesiology and should have NO additional responsibilities other than the conduct of the deep sedation or anesthesia.

back

Next

- On the page, there are several guidelines for the nurse to perform the sedation
- Click on the "Next" button to go to the feedback page.

SEDA S


Search Patient

Profile

Dose

Guide

Feedback



Ahmad Cassin

AGE34CONTACT(354) 492-4959

ID9b5a23ce-a66d-44e5-9bf7-149974494e43ADDRESS911 Gleason Skyway, Suite 861, Carlisle, MA, 01741, US

### Feedback

Soberness

Level I - very sober

Degree of Pain

0(no pain) -> 9(terrible pain)

Satisfaction of Nurse Performance

0(terrible) -> 9(perfect)

Recovery Situation

back

Save & Logout

BACKGROUND

☒ Tobacco

☐ Benzodiazephi Use

☐ Opiod Use

Height: 179.0 cm

Weight: 96.75 lb

Blood Pressure: 87/136 mm/hg

BMI: 30.19

- Choose soberness level of the patient
- Write the degree of pain of the patient
- Write the satisfaction of nurse performance
- Write the recovery situation of the patient
- Now you have finished the evaluation and click "save & logout" button

Marylouise Armstrong ♀

AGE 37 CONTACT (872) 754-6669 x242

ID 30d44805-5e26-4f59-9cac-6ce7bd9b1058 ADDRESS 88241 Hertha River, Suite 455, Athol, MA, 01331, US

## Feedback


**Soberness**  
Level I - very sober

**Degree of Pain**  
3

**Satisfaction of Nurse**  
3

**Recovery Situation**  
good

back Save & Logout



### Level I

The patient can leave right now.

OK

- According to the soberness of the patient
- The website will provide the information that how long the patient should stay in the facility
- The page will be directed back to the log in/register page