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# **Cagenix-Web Documentation**

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**Jason Myers for Prime Notion Technologies**

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<b>1</b>	<b>Bid Overview</b>	<b>3</b>
1.1	Backend . . . . .	3
1.2	Frontend . . . . .	3
<b>2</b>	<b>Developer Overview</b>	<b>5</b>
2.1	Libraries . . . . .	5
2.2	General Application Setup (___init___.py) . . . . .	5
<b>3</b>	<b>Models Overview</b>	<b>7</b>
3.1	Activation Model . . . . .	7
3.2	Advertisement Model . . . . .	7
3.3	Answer Model . . . . .	8
3.4	Evaluation Model . . . . .	8
3.5	Patient Model . . . . .	8
3.6	PatientEvaluationAnswer Model . . . . .	9
3.7	Practice Model . . . . .	9
3.8	Question Model . . . . .	9
3.9	Role Model . . . . .	10
3.10	User Model . . . . .	10
<b>4</b>	<b>API Overview</b>	<b>11</b>
4.1	Base URL, HTTPS, and Versioning . . . . .	11
4.2	Credentials . . . . .	11
4.3	GET Requests . . . . .	12
4.4	Headers . . . . .	12
4.5	Header Formulas . . . . .	13
4.6	Response Codes . . . . .	13
<b>5</b>	<b>Advertisements API</b>	<b>15</b>
5.1	Retrieve Advertisement details . . . . .	15
5.2	Retrieve Advertisement details . . . . .	15
<b>6</b>	<b>Evaluations API</b>	<b>17</b>
6.1	Create an Evaluation . . . . .	17
6.2	Retrieve Evaluation details . . . . .	18
6.3	Update an Evaluation . . . . .	19
6.4	Delete a patient . . . . .	20
<b>7</b>	<b>Patients API</b>	<b>21</b>
7.1	Create a patient . . . . .	21
7.2	Retrieve Patient details . . . . .	22

7.3	Update a patient . . . . .	23
7.4	Delete a patient . . . . .	24
<b>8</b>	<b>Practitioners API</b>	<b>25</b>
8.1	Create a Practitioner . . . . .	25
8.2	Retrieve Practitioner details . . . . .	26
8.3	Update a Practitioner . . . . .	27
8.4	Delete a Practitioner . . . . .	29
8.5	Authenticate a Practitioner . . . . .	29
<b>9</b>	<b>Advertisements Blueprint Overview</b>	<b>31</b>
9.1	Advertisements Models . . . . .	31
9.2	Advertisements Forms . . . . .	31
9.3	Advertisements Views . . . . .	32
<b>10</b>	<b>Evaluations Blueprint Overview</b>	<b>35</b>
10.1	Evaluations Models . . . . .	35
10.2	Evaluations Forms . . . . .	36
10.3	Evaluations Views . . . . .	36
<b>11</b>	<b>Patients Blueprint Overview</b>	<b>39</b>
11.1	Patients Models . . . . .	39
<b>12</b>	<b>Practices Blueprint Overview</b>	<b>41</b>
12.1	Practices Models . . . . .	41
12.2	Practices Forms . . . . .	41
12.3	Practices Views . . . . .	42
<b>13</b>	<b>Users Blueprint Overview</b>	<b>43</b>
13.1	Users Models . . . . .	43
13.2	Users Forms . . . . .	44
13.3	Users Views . . . . .	46
<b>14</b>	<b>Indices and tables</b>	<b>49</b>
	<b>Python Module Index</b>	<b>51</b>
	<b>Index</b>	<b>53</b>

Contents:



## **BID OVERVIEW**

We're needing a web application that acts as a server-side component to a data collection mobile application. It also has a front-end for administrative purposes. This is intentionally vague thanks to NDAs, etc., but it is this "simple". The requirements are completely solid and we don't tolerate scope creep...

### **1.1 Backend**

The back-end of web app, through a JSON API, needs to:

- Store "activation codes" for the mobile apps associated with a person's business. When a user downloads an app, they have to enter this code.
- Allow a user to register using an activation code, some contact information, and other basic information. The activation code is expired but still associated with the user. The user must open an email sent to them to activate their registration.
- Validate user's login credentials, returning a auth token that must be passed with all JSON requests.
- Associate with a user another type of user in a parent-child relationship. This other type of user (let's call this a customer) just has basic information.
- Associate a customer evaluation with a customer. This customer evaluation contains a few question-answer fields (about 20).
- Associate a product choice with a customer. There are three product choices: "good", "better", "best" if you like.
- Allow the app to retrieve a list of advertisement banners placed in specified areas of the app (think left, right, or bottom). A "hit count" for the ad banner is retained.

### **1.2 Frontend**

The front-end of the web app needs to:

- Allow an administrator to log in.
- Allow an administrator to create an activation code and associate very simple branding attributes with it (primary, secondary colors).
- Allow an administrator to upload advertisement banners.
- Allow a user to perform a password reset if they have forgotten their password. This simply allows them to log back in to the mobile app; they do not log in to the web app.

If you have any questions, let me know.





## DEVELOPER OVERVIEW

The following document covers the internals of the Cagenix-Web application. Below is a list of libraries used in the application, and the general application settings.

### 2.1 Libraries

- Flask - Web Framework [Documentation](#)
- Flask-SQLAlchemy - Simplifies the usage of SQLAlchemy within the Flask framework. Check out the [Road to Enlightenment](#) for more details. [SQLAlchemy Docs](#)
- WTForms - Provides a flexible way of handling forms [Documentation](#)
- Flask-WTF - Provides a simple integration with WTForms [Documentation](#)
- Jinja2 - The preferred templating language for Flask [Documentation](#)
- Flask-Security - A very powerful collection of User Authentication/Authorization/Accounting [Documentation](#)
- Passlib - A strong password hashing utility [Documentation](#)
- Unicodcsv - Used to handle csv files that contain unicode characters [Documentation](#)

It's built using the [Flask Large App How To](#) and [Matt Wright's Guide](#)

### 2.2 General Application Setup (`__init__.py`)

This file contains the application setup for SSLify, Flask-SQLAlchemy, and Flask-Security.

```
cagenix.create_user()
cagenix.handle_splash(*args, **kwargs)
cagenix.logout()
    This handles the logout for flask_security and redirects to login
cagenix.not_found(error)
    returns a the 404.html template on any 404 error with in the app.
```

**Parameters** `error` – The error details

**Returns** 404.html

**Return type** template



## MODELS OVERVIEW

The following document covers the models used in the Cagenix-Web application.

- *Activation Model*
- *Advertisement Model*
- *Answer Model*
- *Evaluation Model*
- *Patient Model*
- *PatientEvaluationAnswer Model*
- *Practice Model*
- *question-model-label*
- *Role Model*
- *User Model*

### 3.1 Activation Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
code	String(255)	Activation Code

#### Virtuals

Field Name	Type	Description
practitioner	One2One	Virtual to User/practitioner
practice	Many2One	Virtual to Practice

### 3.2 Advertisement Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
name	String(80)	Banner Name
asset_location	String(80)	Location of asset or resource name
position	String(80)	Screen Position
active	Boolean	Active Flag for archiving

### 3.3 Answer Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
text	String	The text of the Question
order	Integer	The order of the Question in the Evaluation.
active	Boolean	Active Flag for archiving

#### Virtuals

Field Name	Type	Description
question	Many2One	Virtual to question

### 3.4 Evaluation Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
name	Integer	Name of the Evaluation
active	Boolean	Active Flag for archiving

#### Virtuals

Field Name	Type	Description
questions	One2Many	Virtual to Questions

### 3.5 Patient Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
first_name	String(80)	First Name
last_name	String(80)	Last Name
address_one	String(255)	First address line
address_two	String(255)	Second address line
city	String(255)	City
state	String(255)	State
zip_code	String(10)	ZIP Code in 5-4 format
email	String(255)	email address
active	Boolean	Active Flag for archiving
choice_one	String(255)	The “best” choice
choice_two	String(255)	The “better” choice
choice_three	String(255)	The “good” choice

#### Virtuals

Field Name	Type	Description
practitioner	Many2One	Virtual to User assigned as dentist
practice	Many2One	Virtual to Practice
evaluation_answer	Many2One	Virtual to PatientEvaluationAnswer

### 3.6 PatientEvaluationAnswer Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
evaluation_id	Integer	Used to group questions into a single evaluation.
custom_answer	String(255)	Free Text Answer to question
active	Boolean	Active Flag for archiving

#### Virtuals

Field Name	Type	Description
question	Many2One	Question Asked
patient	Many2One	User Answering Question
answer	Many2One	Answer Selected

### 3.7 Practice Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
practice_name	String(255)	Practice Name
address_one	String(255)	First address line
address_two	String(255)	Second address line
city	String(255)	City
state	String(255)	State
zip_code	String(10)	ZIP Code in 5-4 format
url	String(255)	Web Address
primary_color	String(255)	Primary Branding Color
secondary_color	String(255)	Secondary Branding Color
phone	String(12)	Phone
active	Boolean	Active Flag for archiving

#### Virtuals

Field Name	Type	Description
practitioner	One2Many	Virtual to User

### 3.8 Question Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
text	String	The text of the Question
order	Integer	The order of the Question in the Evaluation.
active	Boolean	Active Flag for archiving

#### Virtuals

Field Name	Type	Description
evaluation	Many2One	Virtual to Evaluation
answers	One2Many	Virtual to Answer

## 3.9 Role Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
name	String(80)	Name
description	String(255)	Short description of the Role's purpose

### Virtuals

Field Name	Type	Description
practitioner	One2Many	Virtual to User

## 3.10 User Model

Field Name	Type (Length)	Description
id	Integer	Primary Key
first_name	String(80)	First Name
last_name	String(80)	Last Name
address_one	String(255)	First address line
address_two	String(255)	Second address line
city	String(255)	City
state	String(255)	State
zip_code	String(10)	ZIP Code in 5-4 format
email	String(255)	email address
password	String(255)	encrypted password string
secret	String(255)	Secret key used for API
activation_code	String(255)	Code used for initial account setup
primary_color	String(255)	Primary Branding Color
secondary_color	String(255)	Secondary Branding Color
active	Boolean	Active Flag for archiving
confirmed_at	DateTime	UTC DateTime when user confirmed their account.
last_login_at	DateTime	UTC DateTime of last login
current_login_at	DateTime	UTC DateTime of current login if active
last_login_ip	String(255)	Last IP accessed from
current_login_ip	String(255)	Current IP accessed from
login_count	Integer	Number of Logins

### Virtuals

Field Name	Type	Description
patients	One2Many	Virtual to Patient
roles	One2Many	Virtual to Role

## API OVERVIEW

The following document will walk you through using the Cagenix API within your application.

### 4.1 Base URL, HTTPS, and Versioning

#### 4.1.1 Base URI

The Cagenix API root is located at: <https://cagenix-web.herokuapp.com/api/v1/>

#### 4.1.2 HTTP and HTTPS

The Cagenix API is served over HTTP and HTTPS during testing. The final deployment will be HTTPS only, prefer to testing that method.

#### 4.1.3 Versioning

Currently the Cagenix API does not require any type of versioning in the requests as it is in the URI.

#### 4.1.4 Message Body

When submitting a request to the Cagenix API with a message body, the variables within that body should be UTF8 encoded and within a JSON object.

### 4.2 Credentials

In order to access the Cagenix API each developer/user must request a key and a secret from the application admins. These two keys will be used in the following formulas which will provide the properly formatted header values required for all POST, PUT, PATCH, and DELETE requests. All GET requests require the key, timestamp, and signature url parameters.

## 4.3 GET Requests

A properly formed GET request includes the email, timestamp, and signature url parameters. The email is the email provided by the application admins. The signature is made of the hmac digest of the SECRET, QueryString(email and timestamp) encoded to UTF8 hashed via sha512 and base 64 encoded.

URL Param	Description
email	The Practitioners/Users email address
times-tamp	This is the date and time, ISO format, used in your header formulas. An example is 2012-10-29T01:30:20Z. Notice the T and Z, with the T separating the date and time and Z ending the string.
signa-ture	The header signature is a string that combines the body hash, date and time, along with your secret, encoded to UTF8 and hashed using sha256.

**Note:** Signature = Base64( hmac\_digest( Secret, UTF-8-Encoding-Of( QueryString ), sha512 ) ) )

---

### Signature Example

```
Base64( hmac_digest( secret, UTF-8-Encoding-Of('email=jason%40mailtheyyers.com&timestamp=2014-02-01T01:30:20Z') ) )
would result in
qs81oYv+HsgF4s/2FHb/OBrs8Y3elMWIOweD+ZUUvroAkJsen1Mfo8UR72ywulMCUwRLKPUwZj2qcMAc6tQpiA==
```

This assumes:

```
email is jason@mailtheyyers.com
Secret is cf741fa70d20938f003677a24d73cbcb
Time is 3:39:38 on 2/01/2014
```

### URL Example

```
/api/v1/practitioners/2?code=qs81oYv+HsgF4s/2FHb/OBrs8Y3elMWIOweD+ZUUvroAkJsen1Mfo8UR72ywulMCUwRLKPUwZj2qcMAc6tQpiA==
```

This assumes:

```
email is jason@mailtheyyers.com
Secret is cf741fa70d20938f003677a24d73cbcb
Time is 3:39:38 on 2/01/2014
```

## 4.4 Headers

When interacting with the Cagenix web-service, the following headers are required to be submitted with each request.

Header Element	Description
Content-Type	application/json Currently XML and other formats are not available.
email	The Practitioners/Users email address
datetime	This is the date and time, ISO format, used in your header formulas. An example is 2012-10-29T01:30:20Z. Notice the T and Z, with the T separating the date and time and Z ending the string.
body_hash	This is the encoding of the body contents through the following formula. If there are no body contents to be sent, encode and send an empty body array.
signature	The header signature is a string that combines the body hash, date and time, along with your secret, encoded to UTF8 and hashed using sha256.
lang	The language of the request content. Example is 'en'.



## 4.5 Header Formulas

Header Element	Formula
datetime	The date and time is a simple formatting: yyyy-mm-ddThh:mm:ssZ
body_hash	json body content UTF8 encoded, then sha256 hashed.
signature	body_hash added to datetime added to secret key, encoded to UTF8 then sha256 hashed.

## 4.6 Response Codes

### 4.6.1 GET Request Response Codes

CODE	Response	Meaning
200	OK	The request was successful and the body contains what you asked for.
401	Unauthorized	Your credentials do not authorize you to access the requested info.
404	Not Found	The service you requested was not found on our server.
500	Server Error	There was an internal error, if it continues, please contact us.
503	Service Unavailable	The service requested is temporarily down. Try again later.

### 4.6.2 POST/PUT Request Response Codes

CODE	Response	Meaning
200	OK	The request was successful and the body contains what you asked for.
201	Created	The resource you requested by create was successfully created.
400	Bad Request	Something was wrong in your request, check the message for details.
401	Unauthorized	Your credentials do not authorize you to access the requested info.
404	Not Found	The service you requested was not found on our server.
405	Method Not Allowed	You tried POSTing or PUTting to a service that can't accept data.
500	Server Error	There was an internal error, if it continues, please contact us.

### 4.6.3 DELETE Request Response Codes

CODE	Response	Meaning
204	OK	The request was successfully deleted.
400	Bad Request	Something was wrong in your request, check the message for details.
401	Unauthorized	Your credentials do not authorize you to access the requested info.
404	Not Found	The service you requested was not found on our server.
405	Method Not Allowed	You tried POSTing or PUTting to a service that can't accept data.
500	Server Error	There was an internal error, if it continues, please contact us.



## ADVERTISEMENTS API

### 5.1 Retrieve Advertisement details

This endpoint is used to retrieve most details of an Advertisement.

---

**Note:** GET /api/v1/advertisements

---

#### 5.1.1 Response

```
{
  'request': {
  },
  'response': {
    'advertisements': [
      {
        'id': '',
        'name': '',
        'asset_location': '',
        'position': '',
        'position': '',
      } #...
    ]
  }
}
```

Property	Description	Type
advertisements	A collection of Ad objects	List
id	ID of the Advertisement	String
name	Banner Name	String
asset_location	Location of asset or resource name	String
position	Screen Position	String

### 5.2 Retrieve Advertisement details

This endpoint is used to retrieve most details of an Advertisement.

---

**Note:** GET /api/v1/advertisements/<ID>

---

### 5.2.1 Response

```
{
  'request': {
    'advertisement_id': '',
  },
  'response': {
    'name': '',
    'asset_location': '',
    'position': '',
    'active': '',
  }
}
```

Property	Description	Type
name	Banner Name	String
asset_location	Location of asset or resource name	String
position	Screen Position	String
active	Active Flag for Archiving	String

## EVALUATIONS API

## 6.1 Create an Evaluation

This endpoint is used to create an evaluation in the Cagenix API.

**Note:** POST /api/v1/evaluations/create

### 6.1.1 Call

```
{
  'practice': '',
  'practitioner': '',
  'patient': '',
  'answers': [
    {
      'question_id': '',
      'patient_answer': '',
    }, #...
  ]
}
```

Property	Description	Type	Required
practice	ID of the Practice	Integer	
practitioner	ID of the Practitioner	Integer	
patient	ID of the Patient	Integer	X
answers	A collection of Answers objects	List	X
question_id	ID of the Evaluation Question	Integer	X
patient_answer	Patient's response to the question	String	X

### 6.1.2 Response

```
{
  'request': {
    'practice': '',
    'practitioner': '',
    'patient': '',
    'answers': [
      {
        'question_id': '',
        'patient_answer': '',
      },
    ],
  },
}
```

```
        }, #...
    ]
},
'response': {
    'evaluation_uuid': '',
},
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Eval ID	Object
evaluation_uuid	A unique UUID for the evaluation records	String

## 6.2 Retrieve Evaluation details

This endpoint is used to retrieve all the details of an Evaluation.

---

**Note:** GET /api/v1/evaluations/<UUID>

---

### 6.2.1 Response

```
{
  'request': {
    'evaluation_uuid': '',
  },
  'response': {
    'evaluation_uuid': '',
    'practice': '',
    'practitioner': '',
    'patient': '',
    'answers': [
      {
        'question_id': '',
        'patient_answer': '',
      }, #...
    ]
    'active': '',
  }
}
```

Property	Description	Type
evaluation_uuid	A unique UUID for the evaluation records	String
practice	ID of the Practice	Integer
practitioner	ID of the Practitioner	Integer
patient	ID of the Patient	Integer
answers	A collection of Answers objects	List
question_id	ID of the Evaluation Question	Integer
patient_answer	Patient's response to the question	String

## 6.3 Update an Evaluation

This endpoint is used to update an evaluation in the Cagenix API. You must resubmit all answer objects again. So if an evaluation had 20 questions, all of those answers must be resubmitted for an update.

---

**Note:** **PUT** /api/v1/evaluations/<uuid>

---

### 6.3.1 Call

```
{
  'evaluation_uuid': '',
  'practice': '',
  'practitioner': '',
  'patient': '',
  'answers': [
    {
      'question_id': '',
      'patient_answer': '',
    }, #...
  ]
  'active': '',
}
```

Property	Description	Type	Required
evaluation_uuid	A unique UUID for the evaluation records	String	X
practice	ID of the Practice	Integer	
practitioner	ID of the Practitioner	Integer	
patient	ID of the Patient	Integer	
answers	A collection of Answers objects	List	X
question_id	ID of the Evaluation Question	Integer	X
patient_answer	Patient's response to the question	String	X

### 6.3.2 Response

```
{
  'request': {
    'evaluation_uuid': '',
    'practice': '',
    'practitioner': '',
    'patient': '',
    'answers': [
      {
        'question_id': '',
        'patient_answer': '',
      }, #...
    ]
    'active': '',
  },
  'response': {
    'evaluation_uuid': '',
    'status': '',
    'active': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Patient ID	Object
evaluation_uuid	A unique UUID for the evaluation records	String
status	The result of the PUT operation (EX: Success, Failed)	String
active	Active Flag for Archiving	Boolean

## 6.4 Delete a patient

This endpoint is used to delete an evaluation in the Cagenix API.

---

**Note:** **DELETE** /api/v1/evaluations/<uuid>

---

### 6.4.1 Response

```
{
  'request': {
    'evaluation_uuid': '',
  },
  'response': {
    'status': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Evaluation UUID	Object
status	The result of the DELETE operation (EX: Success, Failed)	String



## PATIENTS API

### 7.1 Create a patient

This endpoint is used to create a patient in the Cagenix API.

---

**Note:** **POST** /api/v1/patients/create

---

#### 7.1.1 Call

```
{  
  'first_name': '',  
  'last_name': '',  
  'address_one': '',  
  'address_two': '',  
  'city': '',  
  'state': '',  
  'zip_code': '',  
  'email': '',  
  'practice': '',  
  'practitioner': '',  
}
```

Property	Description	Type	Required
first_name	First Name	String	X
last_name	Last Name	String	X
address_one	First address line	String	X
address_two	Second address line	String	
city	City	String	X
state	State	String	X
zip_code	ZIP Code in 5-4 format	String	X
email	email address	String	X
practice	ID of the Practice	Integer	
practitioner	ID of the Practitioner	Integer	X

#### 7.1.2 Response

```
{  
  'request': {  
    'first_name': '',  
    'last_name': '',  
  },  
}
```

```
    'address_one': '',
    'address_two': '',
    'city': '',
    'state': '',
    'zip_code': '',
    'email': '',
    'practice': '',
    'practitioner': '',
  },
  'response': {
    'patient_id': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Patient ID	Object
patient_id	A unique ID for the Patient record	Integer

## 7.2 Retrieve Patient details

This endpoint is used to retrieve all the details of a Patient.

---

**Note:** GET /api/v1/patients/<ID>

---

### 7.2.1 Response

```
{
  'request': {
    'patient_id': '',
  },
  'response': {
    'active': '',
    'first_name': '',
    'last_name': '',
    'address_one': '',
    'address_two': '',
    'city': '',
    'state': '',
    'zip_code': '',
    'email': '',
    'choice_one': '',
    'choice_two': '',
    'choice_three': '',
    'practice': '',
    'practitioner': '',
  }
}
```

Property	Description	Type
active	Active Flag for Archiving	String
first_name	First Name	String
last_name	Last Name	String
address_one	First address line	String
address_two	Second address line	String
city	City	String
state	State	String
zip_code	ZIP Code in 5-4 format	String
email	email address	String
choice_one	The “best” choice	String
choice_two	The “better” choice	String
choice_three	The “good” choice	String
practice	ID of the Practice	Integer
practitioner	ID of the Practitioner	Integer

## 7.3 Update a patient

This endpoint is used to update a patient in the Cagenix API.

**Note:** PUT /api/v1/patients/<id>

### 7.3.1 Call

```
{
  'first_name': '',
  'last_name': '',
  'address_one': '',
  'address_two': '',
  'city': '',
  'state': '',
  'zip_code': '',
  'email': '',
  'active': '',
  'practice': '',
  'practitioner': ''
}
```

Property	Description	Type	Required
active	Active Flag for Archiving	Boolean	X
patient_id	Patient ID	String	
first_name	First Name	String	
last_name	Last Name	String	
address_one	First address line	String	
address_two	Second address line	String	
city	City	String	
state	State	String	
zip_code	ZIP Code in 5-4 format	String	
email	email address	String	
active	Active Flag for Archiving	Boolean	
practice	ID of the Practice	Integer	
practitioner	ID of the Practitioner	Integer	

### 7.3.2 Response

```
{
  'request': {
    'patient_id': '',
    'first_name': '',
    'last_name': '',
    'address_one': '',
    'address_two': '',
    'city': '',
    'state': '',
    'zip_code': '',
    'email': '',
    'active': '',
    'practice': '',
    'practitioner': '',
  },
  'response': {
    'patient_id': '',
    'active': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Patient ID	Object
patient_id	A unique ID for the Patient record	Integer
active	Active Flag for Archiving	Boolean

## 7.4 Delete a patient

This endpoint is used to Delete a patient in the Cagenix API.

---

**Note:** **DELETE** /api/v1/patients/<id>

---

### 7.4.1 Response

```
{
  'request': {
    'patient_id': '',
  },
  'response': {
    'status': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Patient ID	Object
status	The result of the DELETE operation (EX: Success, Failed)	String

## PRACTITIONERS API

### 8.1 Create a Practitioner

This endpoint is used to create a practitioner in the Cagenix API.

---

**Note:** **POST** /api/v1/practitioners/create

---

**\*\* This endpoint is open, and only requires the following headers:\*\***

```
{
  'content-type': 'application/json'
}
```

#### 8.1.1 Call

```
{
  'first_name': '',
  'last_name': '',
  'address_one': '',
  'address_two': '',
  'city': '',
  'state': '',
  'zip_code': '',
  'email': '',
  'password': '',
  'activation_code': '',
  'primary_color': '',
  'secondary_color': '',
  'practice': ''
}
```

Property	Description	Type	Required
first_name	First Name	String	X
last_name	Last Name	String	X
address_one	First address line	String	X
address_two	Second address line	String	
city	City	String	X
state	State	String	X
zip_code	ZIP Code in 5-4 format	String	X
email	Email address	String	X
password	Password	String	X
activation_code	Code used for initial account setup	String	X
primary_color	Primary Branding Color	String	
secondary_color	Secondary Branding Color	String	
practice	ID of the Practice	Integer	

### 8.1.2 Response

```
{
  'request': {
    'first_name': '',
    'last_name': '',
    'address_one': '',
    'address_two': '',
    'city': '',
    'state': '',
    'zip_code': '',
    'email': '',
    'password': 'XXX',
    'activation_code': '',
    'primary_color': '',
    'secondary_color': '',
    'practice': '',
  },
  'response': {
    'practitioner_id': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Practitioner ID	Object
practitioner_id	A unique ID for the Partitioner record	Integer

## 8.2 Retrieve Practitioner details

This endpoint is used to retrieve most details of a Practitioner.

---

**Note:** GET /api/v1/practitioners/<ID>

---

## 8.2.1 Response

```
{
  'request': {
    'practitioner_id': '',
  },
  'response': {
    'active': '',
    'first_name': '',
    'last_name': '',
    'address_one': '',
    'address_two': '',
    'city': '',
    'state': '',
    'zip_code': '',
    'email': '',
    'activation_code': '',
    'primary_color': '',
    'secondary_color': '',
    'practice': '',
  }
}
```

Property	Description	Type
active	Active Flag for Archiving	String
first_name	First Name	String
last_name	Last Name	String
address_one	First address line	String
address_two	Second address line	String
city	City	String
state	State	String
zip_code	ZIP Code in 5-4 format	String
email	email address	String
activation_code	Code used for initial account setup	String
primary_color	Primary Branding Color	String
secondary_color	Secondary Branding Color	String
practice	ID of the Practice	Integer

## 8.3 Update a Practitioner

This endpoint is used to update a practitioner in the Cagenix API.

---

**Note:** **PUT** /api/v1/practitioners/<id>

---

### 8.3.1 Call

```
{
  'first_name': '',
  'last_name': '',
  'address_one': '',
  'address_two': '',
  'city': '',
  'state': '',
```

```
    'zip_code': '',
    'email': '',
    'active': '',
    'primary_color': '',
    'secondary_color': '',
    'practice': '',
}
```

Property	Description	Type	Required
active	Active Flag for Archiving	Boolean	
first_name	First Name	String	
last_name	Last Name	String	
address_one	First address line	String	
address_two	Second address line	String	
city	City	String	
state	State	String	
zip_code	ZIP Code in 5-4 format	String	
email	email address	String	
active	Active Flag for Archiving	Boolean	
primary_color	Primary Branding Color	String	
secondary_color	Secondary Branding Color	String	
practice	ID of the Practice	Integer	

### 8.3.2 Response

```
{
  'request': {
    'first_name': '',
    'last_name': '',
    'address_one': '',
    'address_two': '',
    'city': '',
    'state': '',
    'zip_code': '',
    'email': '',
    'active': '',
    'primary_color': '',
    'secondary_color': '',
    'practice': '',
  },
  'response': {
    'practitioner_id': '',
    'active': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Practitioner ID	Object
practitioner_id	A unique ID for the Partitioner record	Integer
active	Active Flag for Archiving	Boolean



## 8.4 Delete a Practitioner

This endpoint is used to Delete a practitioner in the Cagenix API.

---

**Note:** **DELETE** /api/v1/practitioners/<id>

---

### 8.4.1 Response

```
{
  'request': {
    'practitioner_id': '',
  },
  'response': {
    'status': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the Practitioner ID	Object
status	The result of the DELETE operation (EX: Success, Failed)	String

## 8.5 Authenticate a Practitioner

This endpoint is used to get the secret key for a practitioner in the Cagenix API. This POST request will be made over SSL and will be protected from outside attack via that encryption.

---

**Note:** **POST** /api/v1/practitioners/login

---

**\*\* This endpoint is open, and only requires the following headers:\*\***

```
{
  'content-type': 'application/json'
}
```

### 8.5.1 Call

```
{
  'email': '',
  'password': '',
}
```

Property	Description	Type	Required
email	email address	String	X
password	Password	String	X

### 8.5.2 Response

```
{
  'request': {
    'email': '',
  },
  'response': {
    'secret': '',
  },
}
```

Property	Description	Type
request	Object containing the original request data	Object
response	Object containing the secret for API access	Object
secret	The secret for API Access	String

## ADVERTISEMENTS BLUEPRINT OVERVIEW

The following document covers the internals of the Cagenix-Web advertisements Blueprint.

- *Advertisements Models*
- *Advertisements Forms*
- *Advertisements Views*

### 9.1 Advertisements Models

cagenix.advertisements.models

This file is used to define all the models used by the Advertisement blueprint

**class** cagenix.advertisements.models.**Advertisement** (\*\*kwargs)

The Advertisement model defines the advertisements available via the API

This class defines the model attributes, a classmethod to make finding the advertisements by id easier.

**Parameters** db.Model (object) – The SQLAlchemy base database model

**classmethod** by\_id (advertisement\_id)

by\_id returns a Advertisement object given a user\_id

**Parameters**

- **cls** (class) – The calling class
- **advertisement\_id** (int) – The id of the advertisement being searched for

**Return type** list of Advertisement objects

### 9.2 Advertisements Forms

cagenix.advertisements.forms

This file is used to define all the WTForms used by the Advertisements blueprint

```
class cagenix.advertisements.forms.AdvertisementCreateForm (formdata=<class
    flask_wtf.form._Auto
    at      0x1046440b8>,
    obj=None,    prefix='',
    csrf_context=None,
    secret_key=None,
    csrf_enabled=None,
    *args, **kwargs)
```

This form is used by Admin roles to create new Advertisements

**Parameters** **Form** – The WTForms base class

**Returns** WTForm

**Return type** object

```
class cagenix.advertisements.forms.AdvertisementEditForm (formdata=<class
    flask_wtf.form._Auto
    at      0x1046440b8>,
    obj=None,    prefix='',
    csrf_context=None,
    secret_key=None,
    csrf_enabled=None,    *args,
    **kwargs)
```

This form is used by Admin roles to edit Advertisements

**Parameters** **Form** – The WTForms base class

**Returns** WTForm

**Return type** object

## 9.3 Advertisements Views

cagenix.advertisements.views

This file defines the URL routes and controller logic for the advertisement blueprint.

```
cagenix.advertisements.views.advertisements_create (*args, **kwargs)
```

This function handles the /advertisements/create endpoint for the blueprint

It allows Admins to create Advertisements. It uses the *Advertisements Forms* to display AdvertisementCreate-Form

**Returns** users/index.html

**Return type** template

```
cagenix.advertisements.views.advertisements_delete (*args, **kwargs)
```

This function handles the /advertisements/delete endpoint for the blueprint

It allows Admins to delete Advertisements.

**Returns** redirect to /advertisements

**Return type** redirect

```
cagenix.advertisements.views.home (*args, **kwargs)
```

This function handles the /advertisements endpoint for the blueprint

It displays a list of advertisements with the ability to edit or delete. It also offers the ability to add additional advertisements.

**Returns** advertisements/index.html

**Return type** template



## EVALUATIONS BLUEPRINT OVERVIEW

The following document covers the internals of the Cagenix-Web Evaluations Blueprint.

- *Evaluations Models*
- *Evaluations Forms*
- *Evaluations Views*

### 10.1 Evaluations Models

`cagenix.evaluations.models`

This file is used to define all the models used by the Evaluations blueprint

**class** `cagenix.evaluations.models.Answer` (*\*\*kwargs*)

The Answer model defines the pre-set answers for a question.

**Parameters** `db.Model` (*object*) – The SQLAlchemy base database model

**classmethod** `by_id` (*answer\_id*)

`by_id` returns an Answer object given a `answer_id`

**Parameters**

- **cls** (*class*) – The calling class
- **answer\_id** (*int*) – The id of the answer being searched for

**class** `cagenix.evaluations.models.Evaluation` (*\*\*kwargs*)

The Evaluation model defines the questionnaires that the Practitioners give to patients.

**Parameters** `db.Model` (*object*) – The SQLAlchemy base database model

**classmethod** `by_id` (*evaluation\_id*)

`by_id` returns an Evaluation object given a `evaluation_id`

**Parameters**

- **cls** (*class*) – The calling class
- **evaluation\_id** (*int*) – The id of the evaluation being searched for

**classmethod** `get_evaluations` ()

`get_evaluations` returns a list of Evaluation objects

**Parameters** **cls** (*class*) – The calling class

**class** `cagenix.evaluations.models.Question` (*\*\*kwargs*)

The Question model defines the questions that are in the questionnaires.

**Parameters** `db.Model` (*object*) – The SQLAlchemy base database model

**classmethod** `by_id` (*question\_id*)

`by_id` returns a Question object given a question\_id

**Parameters**

- `cls` (*class*) – The calling class
- `question_id` (*int*) – The id of the question being searched for

## 10.2 Evaluations Forms

`cagenix.practices.forms`

This file is used to define all the WTForms used by the Practices blueprint

```
class cagenix.evaluations.forms.PracticeCreateForm(formdata=<class
                                                    flask_wtf.form._Auto      at
                                                    0x1046440b8>, obj=None, pre-
                                                    fix='', csrf_context=None, se-
                                                    cret_key=None, csrf_enabled=None,
                                                    *args, **kwargs)
```

This form is used by Admin roles to create new Practices

**Parameters** `Form` – The WTForms base class

**Returns** WTForm

**Return type** object

```
class cagenix.evaluations.forms.PracticeEditForm(formdata=<class flask_wtf.form._Auto
                                                           at 0x1046440b8>, obj=None, prefix='',
                                                           csrf_context=None, secret_key=None,
                                                           csrf_enabled=None, *args, **kwargs)
```

This form is used by Admin roles to edit Practices

**Parameters** `Form` – The WTForms base class

**Returns** WTForm

**Return type** object

## 10.3 Evaluations Views

`cagenix.evaluations.views`

This file defines the URL routes and controller logic for the evaluations blueprint.

`cagenix.evaluations.views.evaluations_builder` (*\*args, \*\*kwargs*)

This function handles the `/evaluations/<ID>/builder` endpoint for the blueprint

It allows Admins to build Evaluations. It uses the `:ref:evaluations-builder-label` to build them.

**Returns** `evaluations/create.html`

**Return type** template



`cagenix.evaluations.views.evaluations_create(*args, **kwargs)`

This function handles the `/evaluations/create` endpoint for the blueprint

It allows Admins to start creating Evaluations.

**Returns** redirect to `/evaluations/<ID>/builder`

**Return type** redirect

`cagenix.evaluations.views.evaluations_create_answer(*args, **kwargs)`

This function handles the `/builder/<ID>/answer` endpoint for the blueprint

It allows provides and API for the builder to access answer information for a given question.

**Returns** Answer(s)

**Return type** JSON Objects

`cagenix.evaluations.views.evaluations_create_questions(*args, **kwargs)`

This function handles the `/builder/<ID>/question` endpoint for the blueprint

It allows provides and API for the builder to access question information for a given evaluation.

**Returns** Question(s)

**Return type** JSON Objects

`cagenix.evaluations.views.home(*args, **kwargs)`

This function handles the `/evaluations` endpoint for the blueprint

It displays a list of evaluations with the ability to edit or delete. It also offers the ability to add additional evaluations.

**Returns** `evaluations/index.html`

**Return type** template



## PATIENTS BLUEPRINT OVERVIEW

The following document covers the internals of the Cagenix-Web Patients Blueprint.

- *Patients Models*

### 11.1 Patients Models

`cagenix.patients.models`

This file is used to define all the models used by the Patients blueprint

**class** `cagenix.patients.models.Patient` (*\*\*kwargs*)

The Patient model defines the patient for which the practitioner is performing the evaluation.

**Parameters** `db.Model` (*object*) – The SQLAlchemy base database model

**classmethod** `by_email` (*email*)

`by_email` returns a Patient object given an email address.

**Parameters**

- **cls** (*class*) – The calling class
- **email** (*string*) – The email of the patient being searched for

**classmethod** `by_id` (*user\_id*)

`by_id` returns a Patient object given a patient\_id

**Parameters**

- **cls** (*class*) – The calling class
- **patient\_id** (*int*) – The id of the patient being searched for

**classmethod** `by_phone` (*phone*)

`by_phone` returns a Patient object given a phone number

**Parameters**

- **cls** (*class*) – The calling class
- **phone** (*string*) – The phone number of the patient being searched for

**map\_data** (*data*)

`map_data` takes a dict as an argument. It then iterates over each key field in the fields list, if a key is in the supplied dict, it will then update the attribute of this object to reflect the value of that key in the dict.



## PRACTICES BLUEPRINT OVERVIEW

The following document covers the internals of the Cagenix-Web practices Blueprint.

- [Practices Models](#)
- [Practices Forms](#)
- [Practices Views](#)

### 12.1 Practices Models

cagenix.practices.models

This file is used to define all the models used by the Practices blueprint

**class** cagenix.practices.models.**Practice** (*\*\*kwargs*)

The Practice model defines the authentication users used by Flask-Security

**Parameters** **db.Model** (*object*) – The SQLAlchemy base database model

**classmethod** **by\_id** (*practice\_id*)

by\_id returns a User object given a user\_id

**Parameters**

- **cls** (*class*) – The calling class
- **user\_id** (*int*) – The id of the user being searched for

**classmethod** **by\_phone** (*phone*)

by\_phone returns a User object given a phone number

**Parameters**

- **cls** (*class*) – The calling class
- **phone** (*string*) – The phone number of the user being searched for

**classmethod** **get\_practices** ()

get\_practices returns a list of Practice objects

**Parameters** **cls** (*class*) – The calling class

### 12.2 Practices Forms

cagenix.practices.forms

This file is used to define all the WTForms used by the Practices blueprint

```
class cagenix.practices.forms.PracticeCreateForm (formdata=<class flask_wtf.form._Auto
                                     at 0x1046440b8>, obj=None, prefix='',
                                     csrf_context=None, secret_key=None,
                                     csrf_enabled=None, *args, **kwargs)
```

This form is used by Admin roles to create new Practices

**Parameters** **Form** – The WTForms base class

**Returns** WTForm

**Return type** object

```
class cagenix.practices.forms.PracticeEditForm (formdata=<class flask_wtf.form._Auto
                                     at 0x1046440b8>, obj=None, prefix='',
                                     csrf_context=None, secret_key=None,
                                     csrf_enabled=None, *args, **kwargs)
```

This form is used by Admin roles to edit Practices

**Parameters** **Form** – The WTForms base class

**Returns** WTForm

**Return type** object

## 12.3 Practices Views

cagenix.practices.views

This file defines the URL routes and controller logic for the practices blueprint.

```
cagenix.practices.views.practices_create (*args, **kwargs)
```

This function handles the /practices/create endpoint for the blueprint

It allows Admins to create Practices. It uses the *Practices Forms* to display PracticesCreateForm

**Returns** practices/create.html

**Return type** template

```
cagenix.practices.views.practices_delete (*args, **kwargs)
```

This function handles the /users/create endpoint for the blueprint

It allows PNT-Admins to create users. It uses the *Users Forms* to display UsersCreateForm

**Returns** users/index.html

**Return type** template

## USERS BLUEPRINT OVERVIEW

The following document covers the internals of the Cagenix-Web Users Blueprint.

- *Users Models*
- *Users Forms*
- *Users Views*

### 13.1 Users Models

`cagenix.users.models`

This file is used to define all the models used by the Users blueprint

**class** `cagenix.users.models.Role` (*name, description=None*)

The Role model defines the authorization roles used by Flask-Security

This Role class defines the model attributes, and several classmethods to make using the class easier.

#### Parameters

- **db.Model** (*object*) – The SQLAlchemy base database model
- **RoleMixin** (*object*) – The RoleMixin base provided by Flask-Security

**classmethod** `by_id` (*role\_id*)

`by_id` returns a Role object given a `role_id`

#### Parameters

- **cls** (*class*) – The calling class
- **role\_id** (*int*) – The id of the role being searched for

**classmethod** `by_name` (*role\_name*)

`by_name` returns a Role object given a `role_name`

#### Parameters

- **cls** (*class*) – The calling class
- **role\_name** (*string*) – The name of the role being searched for

**classmethod** `get_roles` ()

`get_roles` returns a list of Role objects

This is primarily used by the WTForms to display the QueryMultipleSelect

**Parameters** **cls** (*class*) – The calling class

**class** `cagenix.users.models.User` (*\*\*kwargs*)

The User model defines the authentication users used by Flask-Security

This Role class defines the model attributes, a classmethod to make finding the users easier. It also contains several fields unexposed by the UI. Those fields are used to track user logins and access IPs.

#### Parameters

- **db.Model** (*object*) – The SQLAlchemy base database model
- **UserMixin** (*object*) – The UserMixin base provided by Flask-Security

**classmethod** `by_email` (*email*)

`by_email` returns a User object given an email address.

#### Parameters

- **cls** (*class*) – The calling class
- **email** (*string*) – The email of the user being searched for

**classmethod** `by_id` (*user\_id*)

`by_id` returns a User object given a `user_id`

#### Parameters

- **cls** (*class*) – The calling class
- **user\_id** (*int*) – The id of the user being searched for

**classmethod** `by_phone` (*phone*)

`by_phone` returns a User object given a phone number

#### Parameters

- **cls** (*class*) – The calling class
- **phone** (*string*) – The phone number of the user being searched for

**classmethod** `by_username` (*username*)

`by_username` returns a User object given a username

#### Parameters

- **cls** (*class*) – The calling class
- **username** (*string*) – The username of the user being searched for

**gen\_secret** ()

`gen_secret` creates a secret for the user.

**map\_data** (*data*)

`map_data` takes a dict as an argument. It then iterates over each key field in the fields list, if a key is in the supplied dict, it will then update the attribute of this object to reflect the value of that key in the dict.

The User implementation of `map_data` skips password to avoid plaintext compromises and security issues.

## 13.2 Users Forms

`cornerstone.users.forms`

This file is used to define all the WTForms used by the Users blueprint



```
class cagenix.users.forms.RoleCreateForm (formdata=<class flask_wtf.form._Auto
                                     at 0x1046440b8>, obj=None, prefix='',
                                     csrf_context=None, secret_key=None,
                                     csrf_enabled=None, *args, **kwargs)
```

This form is used by CS-Admin roles to create a new role

This form is used to create new roles with a name and description.

**Parameters** **Form** – The WTForms base class

**Returns** WTForm

**Return type** object

```
class cagenix.users.forms.RoleEditForm (formdata=<class flask_wtf.form._Auto
                                     at 0x1046440b8>, obj=None, prefix='',
                                     csrf_context=None, secret_key=None,
                                     csrf_enabled=None, *args, **kwargs)
```

This form is used by CS-Admin roles to edit a role

This form is used to change the name or description of a role.

**Parameters** **RoleCreateForm** – The WTForms base class

**Returns** WTForm

**Return type** object

```
class cagenix.users.forms.UserChangePasswordForm (formdata=<class flask_wtf.form._Auto
                                     at 0x1046440b8>, obj=None, prefix='',
                                     csrf_context=None, secret_key=None,
                                     csrf_enabled=None, *args, **kwargs)
```

This form is used by CS-Admin roles to change a users password

This form is used due to the handling of the change password process by Flask-Security.

**Parameters** **UserCreateForm** – The same form used by the Create User process

**Returns** WTForm

**Return type** object

```
class cagenix.users.forms.UserCreateForm (formdata=<class flask_wtf.form._Auto
                                     at 0x1046440b8>, obj=None, prefix='',
                                     csrf_context=None, secret_key=None,
                                     csrf_enabled=None, *args, **kwargs)
```

This form is used by CS-Admin roles to create new users

Users require an email and a password. This form uses a QuerySelectField to produce a list of Merchants that can optionally be associationed to a user. A QuerySelectMultipleField for Roles can also optionally be associated with a client. A client can have as many roles as needed.

**Parameters** **Form** – The WTForms base class

**Returns** WTForm

**Return type** object

```
class cagenix.users.forms.UserEditForm (formdata=<class flask_wtf.form._Auto
                                     at 0x1046440b8>, obj=None, prefix='',
                                     csrf_context=None, secret_key=None,
                                     csrf_enabled=None, *args, **kwargs)
```

This form is used by CS-Admin roles to edit users

Admins can change the email, active state of the user, associated Merchants, and assigned Roles. This form uses a QuerySelectField to produce a list of Merchants that can optionally be associated to a user. A QuerySelectMultipleField for Roles can also optionally be associated with a client. A client can have as many roles as needed.

**Parameters** **Form** – The WTForms base class

**Returns** WTForm

**Return type** object

## 13.3 Users Views

cagenix.users.views

This file defines the URL routes and controller logic for the users blueprint. PNT-Admins and App-Admins are the only users that can access this blueprint. The Flask-Security roles\_accepted decorator is used to require both authentication and authorization.

cagenix.users.views.roles\_create(\*args, \*\*kwargs)

This function handles the /users/roles/create endpoint for the blueprint

It allows PNT-Admins to create roles. It uses the *Users Forms* to display RolesCreateForm

**Returns** users/roles/create.html

**Return type** template

cagenix.users.views.roles\_delete(\*args, \*\*kwargs)

This function handles the /users/roles/delete endpoint for the blueprint

It allows PNT-Admins to delete a role. It is called via a button on the users/roles/edit.html template

**Parameters** **id** (int) – The id of the role being edited

**Returns** users.users\_home

**Return type** redirect

cagenix.users.views.roles\_edit(\*args, \*\*kwargs)

This function handles the /roles/edit endpoint for the blueprint

It allows PNT-Admins to edit roles. It uses the *Users Forms* to display RolesEditForm

**Parameters** **id** (int) – The id of the role being edited

**Returns** users/roles/edit.html

**Return type** template

cagenix.users.views.users\_changepassword(\*args, \*\*kwargs)

This function handles the /users/changepassword endpoint for the blueprint

It allows PNT-Admins to change a users password. It uses the *Users Forms* to display UsersChangePassword-Form

**Parameters** **id** (int) – The id of the user being edited

**Returns** users/change\_password.html

**Return type** template

```
cagenix.users.views.users_create(*args, **kwargs)
```

This function handles the /users/create endpoint for the blueprint

It allows PNT-Admins to create users. It uses the *Users Forms* to display UsersCreateForm

**Returns** users/index.html

**Return type** template

```
cagenix.users.views.users_delete(*args, **kwargs)
```

This function handles the /users/delete endpoint for the blueprint

It allows PNT-Admins to delete a user. It is called via a button on the users/edit.html template

**Parameters** `id (int)` – The id of the user being deleted

**Returns** users.users\_home

**Return type** redirect

```
cagenix.users.views.users_edit(*args, **kwargs)
```

This function handles the /users/edit endpoint for the bcornerstone/users/views.py

It allows PNT-Admins to edit users. It uses the *Users Forms* to display UsersEditForm

**Parameters** `id (int)` – The id of the user being edited

**Returns** users/edit.html

**Return type** template

```
cagenix.users.views.users_home(*args, **kwargs)
```

This function handles the /users endpoint for the blueprint

It displays a list of users and their roles with the ability to edit or change passwords. It also displays a list of roles and descriptions with the ability to edit them. It also offers the ability to add additional users and roles.

**Returns** users/index.html

**Return type** template



## INDICES AND TABLES

- *genindex*
- *modindex*
- *search*



**C**

- cagenix, 5
- cagenix.advertisements.forms, 31
- cagenix.advertisements.models, 31
- cagenix.advertisements.views, 32
- cagenix.evaluations.forms, 36
- cagenix.evaluations.models, 35
- cagenix.evaluations.views, 36
- cagenix.patients.models, 39
- cagenix.practices.forms, 41
- cagenix.practices.models, 41
- cagenix.practices.views, 42
- cagenix.users.forms, 44
- cagenix.users.models, 43
- cagenix.users.views, 46





**A**

Advertisement (class in cagenix.advertisements.models), 31

AdvertisementCreateForm (class in cagenix.advertisements.forms), 31

AdvertisementEditForm (class in cagenix.advertisements.forms), 32

advertisements\_create() (in module cagenix.advertisements.views), 32

advertisements\_delete() (in module cagenix.advertisements.views), 32

Answer (class in cagenix.evaluations.models), 35

**B**

by\_email() (cagenix.patients.models.Patient class method), 39

by\_email() (cagenix.users.models.User class method), 44

by\_id() (cagenix.advertisements.models.Advertisement class method), 31

by\_id() (cagenix.evaluations.models.Answer class method), 35

by\_id() (cagenix.evaluations.models.Evaluation class method), 35

by\_id() (cagenix.evaluations.models.Question class method), 36

by\_id() (cagenix.patients.models.Patient class method), 39

by\_id() (cagenix.practices.models.Practice class method), 41

by\_id() (cagenix.users.models.Role class method), 43

by\_id() (cagenix.users.models.User class method), 44

by\_name() (cagenix.users.models.Role class method), 43

by\_phone() (cagenix.patients.models.Patient class method), 39

by\_phone() (cagenix.practices.models.Practice class method), 41

by\_phone() (cagenix.users.models.User class method), 44

by\_username() (cagenix.users.models.User class method), 44

**C**

cagenix (module), 5

cagenix.advertisements.forms (module), 31

cagenix.advertisements.models (module), 31

cagenix.advertisements.views (module), 32

cagenix.evaluations.forms (module), 36

cagenix.evaluations.models (module), 35

cagenix.evaluations.views (module), 36

cagenix.patients.models (module), 39

cagenix.practices.forms (module), 41

cagenix.practices.models (module), 41

cagenix.practices.views (module), 42

cagenix.users.forms (module), 44

cagenix.users.models (module), 43

cagenix.users.views (module), 46

create\_user() (in module cagenix), 5

**E**

Evaluation (class in cagenix.evaluations.models), 35

evaluations\_builder() (in module cagenix.evaluations.views), 36

evaluations\_create() (in module cagenix.evaluations.views), 36

evaluations\_create\_answer() (in module cagenix.evaluations.views), 37

evaluations\_create\_questions() (in module cagenix.evaluations.views), 37

**G**

gen\_secret() (cagenix.users.models.User method), 44

get\_evaluations() (cagenix.evaluations.models.Evaluation class method), 35

get\_practices() (cagenix.practices.models.Practice class method), 41

get\_roles() (cagenix.users.models.Role class method), 43

**H**

handle\_splash() (in module cagenix), 5

home() (in module cagenix.advertisements.views), 32

home() (in module cagenix.evaluations.views), 37

**L**

logout() (in module cagenix), 5

## M

`map_data()` (cagenix.patients.models.Patient method), 39

`map_data()` (cagenix.users.models.User method), 44

## N

`not_found()` (in module cagenix), 5

## P

Patient (class in cagenix.patients.models), 39

Practice (class in cagenix.practices.models), 41

PracticeCreateForm (class in cagenix.evaluations.forms),  
36

PracticeCreateForm (class in cagenix.practices.forms), 42

PracticeEditForm (class in cagenix.evaluations.forms), 36

PracticeEditForm (class in cagenix.practices.forms), 42

`practices_create()` (in module cagenix.practices.views),  
42

`practices_delete()` (in module cagenix.practices.views),  
42

## Q

Question (class in cagenix.evaluations.models), 35

## R

Role (class in cagenix.users.models), 43

RoleCreateForm (class in cagenix.users.forms), 44

RoleEditForm (class in cagenix.users.forms), 45

`roles_create()` (in module cagenix.users.views), 46

`roles_delete()` (in module cagenix.users.views), 46

`roles_edit()` (in module cagenix.users.views), 46

## U

User (class in cagenix.users.models), 43

UserChangePasswordForm (class in ca-  
genix.users.forms), 45

UserCreateForm (class in cagenix.users.forms), 45

UserEditForm (class in cagenix.users.forms), 45

`users_changepassword()` (in module ca-  
genix.users.views), 46

`users_create()` (in module cagenix.users.views), 46

`users_delete()` (in module cagenix.users.views), 47

`users_edit()` (in module cagenix.users.views), 47

`users_home()` (in module cagenix.users.views), 47