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# **django-rest-auth Documentation**

***Release 0.3.0***

**Tivix Inc.**

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**Warning:** Version 0.3.0 is not compatible with any of previous versions, see [Changelog](#) section for a list of changes.



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## Contents

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## 1.1 Introduction

Since the introduction of django-rest-framework, Django apps have been able to serve up app-level REST API endpoints. As a result, we saw a lot of instances where developers implemented their own REST registration API endpoints here and there, snippets, and so on. We aim to solve this demand by providing django-rest-auth, a set of REST API endpoints to handle User Registration and Authentication tasks. By having these API endpoints, your client apps such as AngularJS, iOS, Android, and others can communicate to your Django backend site independently via REST APIs for User Management. Of course, we'll add more API endpoints as we see the demand.

### 1.1.1 Features

- User Registration with activation
- Login/Logout
- Retrieve/Update the Django User model
- Password change
- Password reset via e-mail
- Social Media authentication

### 1.1.2 Apps structure

- `rest_auth` has basic auth functionality like login, logout, password reset and password change
- `rest_auth.registration` has logic related with registration and social media authentication

## 1.2 Installation

1. Install package:

```
pip install django-rest-auth
```

2. Add `rest_auth` app to `INSTALLED_APPS` in your `django settings.py`:

```
INSTALLED_APPS = (
    ...,
    'rest_framework',
    'rest_framework.authtoken',
    ...,
    'rest_auth'
)
```

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**Note:** This project depends on django-rest-framework library, so install it if you haven't done yet. Make sure also you have installed rest\_framework and rest\_framework.authtoken apps

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3. Add rest\_auth urls:

```
urlpatterns = patterns('',
    ...,
    (r'^rest-auth//', include('rest_auth.urls'))
)
```

You're good to go now!

### 1.2.1 Registration (optional)

1. If you want to enable standard registration process you will need to install django-allauth - see this doc for installation <http://django-allauth.readthedocs.org/en/latest/installation.html>.
2. Add allauth, allauth.account and rest\_auth.registration apps to INSTALLED\_APPS in your django settings.py:

```
INSTALLED_APPS = (
    ...,
    'allauth',
    'allauth.account',
    'rest_auth.registration',
)
```

3. Add rest\_auth.registration urls:

```
urlpatterns = patterns('',
    ...,
    (r'^rest-auth//', include('rest_auth.urls'))
    (r'^rest-auth/registration//', include('rest_auth.registration.urls'))
)
```

### 1.2.2 Social Authenitcation (optional)

Using django-allauth, django-rest-auth provides helpful class for creating social media authentication view. Below is an example with Facebook authentication.

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**Note:** Points 1, 2 and 3 are related with django-allauth configuration, so if you have already configured social authentication, then please go to step 4. See django-allauth documentation for more details.

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1. Add allauth.socialaccount and allauth.socialaccount.providers.facebook apps to INSTALLED\_APPS in your django settings.py:

```
INSTALLED_APPS = (
    ...,
    'rest_framework',
    'rest_framework.authtoken',
    'rest_auth'
    ...,
    'allauth',
    'allauth.account',
    'rest_auth.registration',
    ...,
    'allauth.socialaccount',
    'allauth.socialaccount.providers.facebook',
)
```

2. Add `allauth.socialaccount.context_processors.socialaccount` to `TEMPLATE_CONTEXT_PROCESSORS` in django settings
3. Add Social Application in django admin panel
4. Create new view as a subclass of `rest_auth.registration.views.SocialLogin` with `FacebookOAuth2Adapter` adapter as an attribute:

```
from allauth.socialaccount.providers.facebook.views import FacebookOAuth2Adapter
from rest_auth.registration.views import SocialLogin

class FacebookLogin(SocialLogin):
    adapter_class = FacebookOAuth2Adapter
```

5. Create url for FacebookLogin view:

```
urlpatterns += pattern('',
    ...,
    url(r'^rest-auth/facebook/$', FacebookLogin.as_view(), name='fb_login')
)
```

## 1.3 API endpoints

### 1.3.1 Basic

- /rest-auth/login/ (POST)
  - username (string)
  - password (string)
- /rest-auth/logout/ (POST)
- /rest-auth/password/reset/ (POST)
  - email
- /rest-auth/password/reset/confirm/ (POST)
  - uid
  - token
  - new\_password1

- new\_password2
- 

**Note:** uid and token are sent in email after calling /rest-auth/password/reset/

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- /rest-auth/password/change/ (POST)
  - new\_password1
  - new\_password2
- /rest-auth/user/ (GET)
- /rest-auth/user/ (PUT/PATCH)
  - username
  - first\_name
  - last\_name
  - email

### 1.3.2 Registration

- /rest-auth/registration/ (POST)
  - username
  - password1
  - password2
  - email

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**Note:** This endpoint is based on `allauth.account.views.SignupView` and uses the same form as in this view. To override fields you have to create custom Signup Form and define it in django settings:

```
ACCOUNT_FORMS = {
    'signup': 'path.to.custom.SignupForm'
}
```

See allauth documentation for more details.

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- /rest-auth/registration/ (POST)
  - key

### 1.3.3 Social Media Authentication

Basing on example from installation section [Installation](#)

- /rest-auth/facebook/ (POST)
  - access\_token

## 1.4 Configuration

### • REST\_AUTH\_SERIALIZERS

You can define your custom serializers for each endpoint without overriding urls and views by adding REST\_AUTH\_SERIALIZERS dictionary in your django settings. Possible key values:

- LOGIN\_SERIALIZER - serializer class in rest\_auth.views.Login, default value rest\_auth.serializers.LoginSerializer
- TOKEN\_SERIALIZER - response for successful authentication in rest\_auth.views.Login, default value rest\_auth.serializers.TokenSerializer
- USER\_DETAILS\_SERIALIZER - serializer class in rest\_auth.views.UserDetails, default value rest\_auth.serializers.UserDetailsSerializer
- PASSWORD\_RESET\_SERIALIZER - serializer class in rest\_auth.views.PasswordReset, default value rest\_auth.serializers.PasswordResetSerializer
- PASSWORD\_RESET\_CONFIRM\_SERIALIZER - serializer class in rest\_auth.views.PasswordResetConfirm, default value rest\_auth.serializers.PasswordResetConfirmSerializer
- PASSWORD\_CHANGE\_SERIALIZER - serializer class in rest\_auth.views.PasswordChange, default value rest\_auth.serializers.PasswordChangeSerializer

Example configuration:

```
REST_AUTH_SERIALIZERS = {  
    'LOGIN_SERIALIZER': 'path.to.custom.LoginSerializer',  
    'TOKEN_SERIALIZER': 'path.to.custom.TokenSerializer',  
    ...  
}
```

### • REST\_SESSION\_LOGIN - Enable session login in Login API view (default: True)

## 1.5 Changelog

### 1.5.1 0.3.0

- replaced django-registration with django-allauth
- moved registration logic to separated django application (rest\_auth.registration)
- added serializers customization in django settings
- added social media authentication view
- changed request method from GET to POST in logout endpoint
- changed request method from POST to PUT/PATCH for user details edition
- changed password reset confirm url - uid and token should be sent in POST
- increase test coverage
- made compatible with django 1.7
- removed user profile support