

Django Africa

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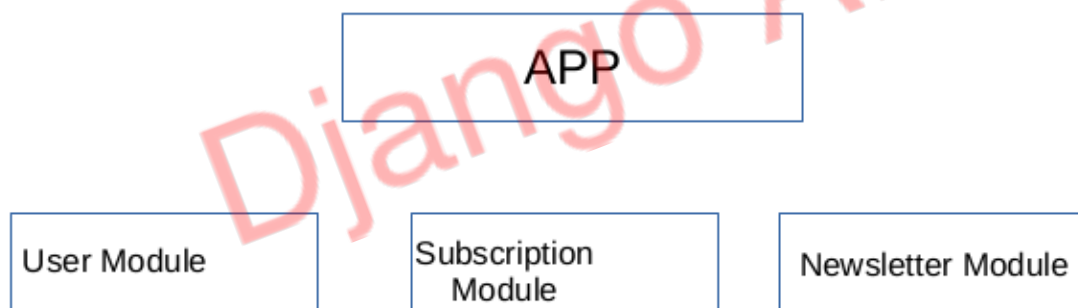
I Awake

Email Subscription And Newsletter API

Email Subscription And Newsletter API

Email subscription API allows different site administrator to signup which then allow for the option of their visitors to receive updates via email by specifying their email addresses in a subscription form. Email subscription is the core part and a starting point of any email marketing strategy. After the registration with this API, The site administrators will get a confirmation email that will allow them (The site administrators) to embed the API within their site.

Below is the system diagram depicting the functionality of the site.



Contents

- **The Backend: DjangoRest Framework**

1. User Module
 - (1) User
 - (2) Profile
 - (3) User Functionality and Logic
2. Subscription Module
 - (1) Subscriber
 - (2) Profile
 - (3) Subscriber Functionality and Logic
3. Newsletter Module
 - (1) Header
 - (2) Content
 - (3) Footer
 - (4) Logic and Functionality
4. SMTP Module
 - (1) SMTP class
 - (2) Functionality and Logic
 1. Automation
 2. AutoResponder
 3. Crons

- **The FrontEnd: Angular**

1. The Home Module
2. The User Module
3. The Newsletter Module
4. The SMTP Module

The User Module

The User Module will serve for the purpose of authenticating the site administrator using the email address that will be used as the sender in the header of the newsletter. The user model will contain the user class, the user profile class and functionality that will define the behaviour of the user i.e validator for the email address being used, what happens during the saving process of the user and son on.

- **The user class:** The user class will contain the username, the domain name of the site, email address that carries the extension of the domain name, and the password and the slug variable for the creation of a friendly urls. Validation methods will be implemented for the email to carry an extension of the admins domain name,
- **The user Profile class:** This will contain a one to one relationship to the user class, an avatar, mobile number, address and country. Validation method will be created to care for the email mobile number, address and country.
- **User Functionality and Logic:** Will remain the same as the django abstractUser class, until proven for modification.

Subscription Module

The Module deals with the management of the subscribe user and the display of the 'subscribe form', used by the site administrator for the aggregation of emails.

- **The subscriber class:** this will contain the subscriber's email address, the date of subscription, subscription interest.
- **The subscribers profile:** This will show the total number of email sent to the user, the title of the email, and the time they where sent.
- **Subscriber Functionality and Logic:** The subscriber class should be able to validate the entry into the email field, the date field should be hidden.

Newsletter Module

The Newsletter module would be used in the preparation of the content to be delivered to the subscribers. The section to address is as follows:

- **The Header class:** The header will contain the email address signup with by the site administrator which will denoted as 'from' the header will also contain a field of the 'email title'.
- **The content class:** this will make provision HTML codes, validation rules will also be provided, uploads of pictures and videos will also be validated
- **The footer class:** will contain a link variable, address for the email company, and Pictures.
- **Logic and Functionality:** The send bottom of the newsletter module will automatically select all aggregated email address that belong to the particular logged in user, and will also provide for the option of hand picking email address.

SMTP Module

SMTP stands for *Short Mail Transfer Protocol*, This Module will govern the API transfer of newsletter to it subscribers, also allowing the administrators to send their newsletter through a specific email server. Note: *We are not providing a mailing server.*

- **SMTP class:** This class will carry properties necessary to set up the mail server of the administrators choice, properties like outgoing servers name, port, security type and Authentication requirement like mail account, and password.
- **Functionality and logic:** The logic and functionality of the class will be automation off newsletters, autoresponder, and crons which are scheduled newsletter updates.