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Distributed Systems Ingeneering

Status Update Report

Technology stack:
Django framework(Python) + django REST framework.

Communication:
My service has API which receive HTTP requests and answers in JSON format which contains serialized data. For example for creating new category you have to create POST HTTP request and send it to a next URL:
10.102.110.9:8888/category/create/
request have to contain title of new category and optionally description of new category.
Ip above is my ip in openVPN service.

API:
For now, my service includes next functionality:

post /category/create/

get /category/list/ for listing all categories

post /sub_category/create/ for create new sub-category, id of parent category should be provided

get /sub_category/list/ list of all sub-category for provided parent category

Modules:
My application is composed from the next parts:

models - representation of all entities featured in my micro service: category, sub category, advertisement. This representation automatically transforms by Django into database tables.

views - module with different functions for different data usage. It gets data from models and use serializers to package it in JSON.

serilizers - module that define JSON representation of data

urls - URL dissolver which basically define API. It waiting for an request to specific URL and calls corresponding function from *views*

tests - part that tests all functions and most common cases of right and wrong using of API and lets to demonstrate functionality of my service without another service involved. Also this part lets to learn how to use API.

settings - settings of Django

What is missing for now:
a) rest of API functionality apart from mentioned in this report
b) corresponding tests for it
c) models have to be improved
d) since not of all users can create and modify information in my micro-service, communication between services has to be token-based which allows implementing authorization.