

Overview

The purpose of this challenge is for you to demonstrate your programming chops in the context of a "real-world" web app using AD's current stack. Your solution should be written in Django REST Framework and HTML(Django Templates), using any other 3rd party modules you wish.

It is mandatory that you separate the frontend and backend by implementing the backend as a REST API that the frontend consumes. For the front-end, basic HTML/CSS or Bootstrap is fine but you can be as creative as you wish. The task is not complex algorithmically. Solutions will be assessed on design/code organization/simplicity, code quality (e.g. following conventions of idiomatic Python) and detail orientation, and correctness.

Challenge

Create a simple a project and task management web application. Think of an extremely simplified version of Teamwork or Asana. The components are:

- A landing page which lists projects and has the options to create new projects, and edit and delete existing projects
- Projects have a name, description, duration, and avatar (image) and can be viewed/edited from their own uniquely addressed details page.
- The project details page also lists tasks associated with this project and has the options to create new tasks, and edit and delete existing tasks
- Tasks have a name, description, start and end dates and can be viewed/edited from their own uniquely addressed details page. Ideally, tasks URLs are nested within project URLs (i.e. ".../project/5/task/3")
- Extra credit if you add an assignee field to tasks and allow assignment to any registered user of your Django app.
- Extra-extra credit for supporting subtasks (tasks of tasks) and displaying them in HTML so that the structure is clearly visible in the web browser.

Deliverables

- Your working application deployed to a publicly accessible URL for us to access and test through a demo account (Heroku/ or any other server)
- Your code published to a public github, bitbucket, etc. repo for us to review