

## Assignment for Full Stack Developer

**Hey!** Your task is to create a simple **Campaign Management Web Application** which is a tool for managing marketing campaigns. This assignment is designed to evaluate your technical skills and sense of ownership when building a project from scratch.

### Domain Requirements

A Campaign represents an advertising unit within an Ad Network. Each campaign contains the following attributes:

- **Title:** The name of the campaign.
- **Landing Page URL:** The destination URL where users are directed when they interact with the campaign.
- **Is Running:** A flag specifying if campaign is active on Ad Network
- **Payouts:** A set of payout amounts, specifying how much money will be offered per specific country where the campaign is advertised. Campaign might have multiple payouts.

The application should provide the following features:

- Create a new campaign (Title and Landing Page URL are mandatory, at least one payout should be added)
- Run and stop a campaign (by toggling "Is Running" flag)
- List created campaigns, showing Title, "Landing Page URL", Payouts. It should be possible to search for campaigns by Title, "Landing Page URL", and "Is Running" status.

### Technical Requirements

- **Frontend:** Develop the frontend using React & Typescript.
- **Backend:** Implement a RESTful API using either Python (e.g., FastAPI, Flask, Django) or Node.js (e.g., Express).
- **Tools and Libraries:** You have complete freedom to choose any additional tools or libraries that you find useful.
- **Version Control:** Upload your solution to a version control platform like GitHub or GitLab, including a README.md with instructions on how to set up and run the application.

- Implementing the filtering functionality on the backend side will be considered a bonus
- While tests are not mandatory, writing a single test for the most critical part of the application will be considered a plus.
- Providing a link to a working **Online Demo** app will be considered **a plus**;

### What gets evaluated

- Conformance to business requirements
- Code quality, application structure
- Usability and UX design
- Error handling
- Checkout-and-run app convenience (how easy it is to run the service)

Happy coding 🐾