AND Digital (Club Murray) - Tech Assessment

Thanks for taking the time to apply for a position with AND Digital in Club Murray (Leeds). In order to make sure that your skills mesh with the work which we do with our clients we'd like to talk to you about some code you've written. In order to do that you can either a) **bring along some code which you've written before** which you think shows your skills in their best light **or** b) you can **complete the tech test outlined below** and bring that with you.

In your interview we'll talk to you about your code & you will have the chance to walk us through the architecture, thought processes & design decisions made. We're most interested in understanding the way that you approach problem solving, your development patterns & your thought processes so don't worry about presenting perfectly optimised code.

Please remember that you shouldn't bring any code along to discuss which you do not have permission to make public. Personal projects & open source contributions usually work best.

Tech Test

> **note for backend developers** - when we refer to a *service* below we mean a RESTful API service which could be interacted with from other services to retrieve the relevant data views.

> **note for frontend developers** - when we refer to a *service* below we mean a user-facing web application which allows users to view the relevant data.

> **note for mobile developers** - when we refer to a *service* below we mean either a native iOS, native Android or React Native application which allows users to view the relevant data.

Using the open APIs listed below, build a service which returns a list of recorded crimes for Premier League football stadiums sorted by year & month. The service should return relevant information which allow the service consumer to contextualise the crime data (i.e. information from the services which give more details about the team, area & crimes). The details of how you organise and/or visualise the data & how users access the data is up to you, please consider the user or developer experience in your service design.

- Football Stadium Data (competition ID 2021)
- Postcode Lookup
- Crime Data by Location

All 3 API services are free to use (may require signup to get a valid API key), in the event that a service is unavailable please let us know.

Once completed please send either a bundle of your code or preferably a link to your repository to your recruitment contact. Please ensure that your repository includes a README with sufficient detail such that we can build & run your code!