# Take home test

> This should take between 2 and 4 hours to complete.

Using **MVC**, create a small portal where clients' investments can be managed. There should be two resources:
1. Clients
    a. I should be able to see and search my client list
    b. Clicking on the user should show me the client details, a list of their investments and a forecast of the earnings.

> For the forecast, pick a future date (i.e. define a financial year end) and calculate the impact of interest on the investments.

2. Investments
    a. I should be able to see the investments and search by the client name and surname
    b. Clicking on the investment will show me the investment details as well as the abovementioned forecast for the investment.

Clients to Investments should be a one to many relationship. Clients should consist of **First name**, **Surname** and **ID number**.
For investments assume one capital investment amount (i.e. a single **lump sum**), include a **start date**, an **annual interest rate** and an **interest type** (simple, compounded monthly, compounded annually).

# Constraints

1. Do not worry about hosting the site - just make sure that the web app and API run locally and communicate with each other.
2. Include a README.md file with instructions on how to run both the web app and API. Assume a junior will be testing the code.
3. Submission should be in one ZIP file.
4. Focus on the R in CRUD. The portal should be read-only.
5. Don't spend too much time styling.
6. I don't specify a database as that's not the point of the exercise - an in-memory DAL is actually preferred.