# Announcing the AD coding competition

Clients drive an accountant’s world! **Relationships** are at the heart of an accountants business. There are **partners** in the firm and there are **employees**. They deal with lots of different types of **client**s; there are **individuals**, **family groups**, **companies**, **partnerships** and **trusts.**

This challenge is all about building a relationship centric tool to solve this business problem with open source tools and technologies.

You will be provided with a number of csv files that represent a dump of data that a fictitious accounting practice works with. Your challenge is to build a web based tool that ingests this data and provides the end user with some useful features.

**FAQ’s**

**How long will the competition run for?**

The competition runs until Monday 27th August.

**What’s the prize?**

We are giving away an **iPad** to the winning entry.

**Who are the judges?**

Aidan Casey, Simon Raik-Allen & Pavan Kumar.

**Who can enter?**

The competition is open to anybody, either contract or permanent that works for the Accountants Division at MYOB.

**Great, let me fire up Visual Studio and I’ll get started...**

Afraid not! We have chosen a number of open source technologies that you must use to build and host your solution. Specifically

**GitHub** – all source code must be stored on Github. To enter the competition you’ll need to provide the name of your Git Hub Repository.

**Neo4J** - you must use Neo4J as the backend database. Part of the challenge is to come up with the best Graph Database structure for the data and figure out how to query it efficiently!

**Heroku –** your application must be up and running on Heroku, they provide a free Noe4J add-in and node.js support to build out your web application.

**Node.js –** Node.is an open source framework that allow you to quickly build out web applications in JavaScript. There is a wealth of existing modules at your disposal to get you up and running through Node Package Manager!!

**So how much will it costs me to build my app?**

Nothing - all these tools are open source and available free of charge …

**When will I get time to build my app?**

In Sydney we are making a room available from 3pm onwards every second Friday to give an opportunity to get up and running. Stay as late as you like and we’ll throw in a few pizzas ☺. The rest is up to you…

If you are not Sydney based please check with your manager about arranging a more suitable time slot.

We’ve set up a Yammer discussion group **(“AD Coding Competition”) and** encourage you all to contribute to this and share your learning’s over the coming weeks. Stay tuned for some relevant brown bag sessions at lunchtime next week to kick things off – we want this to be a highly collaborative project so please get involved and don’t be a stranger! Get involved and start collaborating!

**What the judging criteria?**

The competition will be judged on four criteria – **Collaboration**, **Innovation**, **Presentation** and offcourse a **working solution**☺

**Collaboration** – we’ll be recognising the people that make the biggest community contributions, sharing knowledge, ideas, experiences and learning’s effectively with everyone else. Get on board and start using the Yammer discussion group.

**Innovation** – we’ll be judging on the best use of the tools and technologies to solve the problem.

We’ve come up with a list of ‘must have’ and ‘nice to have’ features for you submission. This is not a definitive list – be creative and see what other types of uses you can put the data to!!!

**Presentation** – We’ll be assessing the user experience and usability of the software.

**A word of caution!!**

We’ve prepared our own test data that we will be using to verify your app works properly! No hard coding!

The types of things your application should perform include

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| --- | --- |
| Must have | Upload the sample cvs files into Noe4J |
| Must have | basic client search functionality |
| Nice to have | Ability to query what partner in the firm has the most clients with outstanding tax returns for a particular tax year |
| Must have | A kick ass Neo4J implementation! |
| Nice to have | Identify the wealthiest families on the books (taking into account their current stock portfolio prices and their tax return data, etc…) |
| Nice to have | Who is the most influential client on their books you decide the algorithm but it should consider how CONNECTED the person is?? |
|  | Go crazy and add your own features!! |

**MAY THE SOURCE BE WITH YOU!!**