# Advanced Health & Care Technical Test

## My Approach - Jeremy Pridmore

Whilst listening to the verbal brief, I made notes of the key features, the inputs and outputs and some of the soft requirements such as how it is to be tested, memory, speed etc. I noted the technical platform, i.e. to be delivered as a console application and noted that the goal is to focus on writing beautifully structured code and not necessarily how good the output looks. David said that the full details of the test would be delivered via email to me. We agreed a deadline for delivery.

I brain stormed the best approach to kick start this project and the process that would best demonstrate my skills.

### Brain Storm

* Treat as client. New client in myhours and track time.
* Present time spent on project and task break down.
* TFS vs GIT - TFS - choose Scrum process template vs David saying that moving over to GIT - so create a new GitHub repo.
* Need to look at Kaban process if using GIT.
* Use NUnit testing - create new test project. Which runner?
* Impact on memory key requirement - use ANTs Memory profiler? Most significant impact will be on the data structure and search algos.
* Also speed of execution is key requirement, so timing framework to compare performance of different methods?
* Need to come up with my own solution rather than looking at rehashes of other peoples solutions.
* Need to consider software design patterns - good OO design - perhaps consider outlining solution in UML behavioural/structural diagrams.
* Consider BDD - scenarios to describe behaviour of software.
* Need to make sure I evaluate performance and describe how I approached the development - using this document!
* Consider using Waffle.io to track project so that David has access to my tasks.
* Need to focus on just the requirements that are listed and not add any other superfluous features.

### Questions

* How does want solution delivered/packaged?
* Any performance metrics need to meet?
* Share repo now so that we can discuss if required?