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| **Constraint category** | **Implementation Constraints** | **Solution** |
| **Hardware and Software platforms** | a) What could be a constraint on your products hardware and software?  The hardware constraints are the physical laptop I have available to work on; and the software constraints are the software I know how to use and have available on this computer. Within this, javascript should not be used by design.  b) What is the issue or problem?  There are no issues so long as I can complete the project with the above hardware and software. | No specific problem, so no solution. Just make sure to use the software and hardware available. |
| **Performance requirements** | a) What do you require to make the performance work better or to its full potential To make sure there is not excessive repetition of operations in multiple places, especially where these are computationally expensive. | Ensure implementation is not overly inefficient in terms of repetition of computationally expensive operations |
| **Persistence Storage and transactions** | a) What storage will you use?  Own hard drive set up as local sql server  b) Is it limited?  Yes but much less than expected data requirements of project  c) Can you expand it later? Yes, including by having database hosted on the cloud (e.g. AWS)  d) Will you be dealing with transactions? Yes | Ensure local database and associated python repositories are set up on a way that is not dependent on local storage, and so will work if the same database is hosted externally |
| **Usability** | a) Who is the software for?  Currently self and trainers to demonstrate capacity to use software/tooling introduced to build a full-stack app  b) What machine do you need to make the app run?  Own computer or equivalent with compatible set up and access to github url.  c) Is it accessible by everyone? No. But this is not a design requirement | Make code freely accessible on github. Set up on website with associated cloud-based database server if required by other users. Perform accessibility tests and adjust front end if/as required |
| **Budgets** | a) What was your budget? None  b) Did you need a budget? No | No problems so no solutions required |
| **Time Limitations** | a) What is the time limitation that you have to complete the project? One week | Complete within the time available. Focus one’s own time on the project for the project duration to ensure completed in time. |