

Implementation Constraints Plan

| Topic | Possible effect of constraint on product | Solution |
|-------------------------------------|---|---|
| Hardware and software platforms | <ul style="list-style-type: none">• Server required to host the system.• Domain required.• Browser compatibility issues - not all functionality is supported eg by IE.• Currently designed for desktop, so no mobile version. | <ul style="list-style-type: none">• Ensure a capable server is in place• Ensure a domain name has been purchased• (.repeat() function replaced with a .join() function)• Prepare a wireframe for mobile version. |
| Performance requirements | <ul style="list-style-type: none">• User will expect the website to be fast.• Time it takes to load pages. | <ul style="list-style-type: none">• Code should be DRY to prevent performance issues.• Use TDD to ensure performance issues are picked up early and rectified.• Target load time by reducing HTTP requests, minifying CSS, optimizing images (Optimizilla), think about JS script 'below the fold', reduce redirects. |
| Persistent storage and transactions | <ul style="list-style-type: none">• Project-specific API which does not currently store user input or reviews. | <ul style="list-style-type: none">• By creating an API specifically for this project and restricting editing access to back-end users. |
| Usability | <ul style="list-style-type: none">• Users may have disabilities and/or limited computer knowledge.• If the text used to display information is too small or too much information is crammed into a small space, it would appear cluttered and difficult to read, especially for users with vision impairments. | <ul style="list-style-type: none">• Design a clean and simple interface.• Ensure that text is a reasonable point size. Consider using colours, backgrounds and fonts which make the text legible to dyslexic users.• Add alt texts to all images to aid assistive technologies. |
| Budgets | <ul style="list-style-type: none">• Equipment, software, web-domain subscription, project management, maintenance/support. | <ul style="list-style-type: none">• Keeping functionality simple at this stage.• Plan budget effectively. |
| Time limitations | <ul style="list-style-type: none">• As above, the more features that are added to the product, the longer it would take to develop. | <ul style="list-style-type: none">• Ensuring that the product is planned in an agile manner by means of daily stand-ups and short sprints.• Good communication and time management throughout the project. |

