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| --- | --- | --- | --- | --- |
| **Tasks** | **Sub-Tasks** | **Resources required** | **Skills required** | **Risk** |
| Planning and Design | Read module materials | OU online resources. Little risk of unavailability | N/A | Time management |
| Create project plan | Freely available software has been used to | Estimating skills for time required for project tasks. Always best to ‘under-promise and over-deliver’ | Under-estimation of time needed for project tasks |
| Complete literature search and review | OU library services and access to online learning resources such as documentation. Should be highly available | Evaluation of viability and usefulness of materials for project | Could prove time consuming if a strict timeframe is not set, there are a lot of resources available |
| Discuss and compile requirements | Access to potential users of the application | Requirements gathering and extraction skills | Chosen potential users may not be truly representative of end users, leading to poor requirements |
| Produce and evaluate wireframes | Computer based wireframing tool | Wireframing skills using chosen tool | Low risk due to previous experience of wireframing and familiarity with chosen tool due to previous OU module wireframing experience. |
| Write acceptance tests | N/A | Usefulness to project relies on a thorough and useful set of requirements being gathered. | Carrying this task out early in the process means requirements need to remain fixed for tests to remain meaningful and useful |
| Set up IDE, development tools and version control | 3rd party provided tools, access to the Internet and a computer | Previous knowledge of development tools that I have used. | Choosing tools that I am not familiar with could prove costly in time if there is a steep learning curve to use |
| Carry out responsive design research | Reliable learning sources in this area | Basic CSS understanding, which has been gained from previous modules. | Time concerns with learning, potential for different methods of achieving desired responsiveness may lead to research overload |
| Carry out JavaScript framework investigation | Reliable learning sources in this area | Understanding of JavaScript and potentially TypeScript, both of which I am familiar with | Ensuring a sensible amount of time is spent on this aspect of the project |
| Recipe Search | Write HTML, CSS and JavaScript for *Recipe Search* | IDE for devlopment | HTML, CSS and JavaScript | I may need to begin this task before I feel I researched the new skills required thoroughly enough, due to time constraints. |
| *Recipe Search* testing |  |  |  |
| Recipe Search refinements |  |  |  |
| *Recipe Search* API integration | Web search engine, thorough and readable documentation provided by 3rd part API provider. |  | There may not exist an API that provides the information that I require for the application, or data may not be in a format that the application can easily consume. Documentation could be lacking in areas I need, or API could become unavailable for some reason. Relies on 3rd party. |
| Recipe Search Results | Write HTML, CSS and JavaScript for *Recipe Search Results* |  |  |  |
| *Recipe Search Results* testing |  |  |  |
| *Recipe Search Results* refinements |  |  |  |
| View Recipe | Write HTML, CSS and JavaScript for *View Recipe* |  |  |  |
| *View Recipe* testing |  |  |  |
| *View Recipe* refinements |  |  |  |
| Add Store Cupboard Item | Write HTML, CSS and JavaScript for *Add Store Cupboard Item* |  |  |  |
| *Add Store Cupboard Item* Testing |  |  |  |
| *Add Store Cupboard Item* Refinements |  |  |  |
| View Store Cupboard Items | Write HTML, CSS and JavaScript for *View Store Cupboard Items* |  |  |  |
| *View Store Cupboard Items* Testing |  |  |  |
| *View Store Cupboard Items* Refinements |  |  |  |
|  | Write HTML, CSS and JavaScript for *Food Safety Index* |  |  |  |
| Testing | Acceptance Testing |  |  |  |
| Cross browser and mobile device testing | Tool that allows emulated testing across multiple browsers | Knowledge of how to operate various types of devices for testing purposes. |  |
| Module tasks | TMA01 |  |  |  |
| TMA02 |  |  |  |
| TMA03 |  |  |  |
| Final project report |  |  |  |