Project Weekly Report

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| Week | What was done | Still To Do | Bugs | How bug was solved |
| 1  13.04.21-  20.04.21 | * Given project brief and marking scheme * Made a github repository with development branch and read me file * Started risk assessment matrix * Started an azure devops board with user stories and tasks * Created a html, css and javascript file for the project which reference each other to use in a future angular front end | * Verify that all apps used are properly linked |  |  |
| 26.04.21-  28.04.21  New-branch | * Had a go at making c# mvc app with crud functionality on the plant table | * Need to add form input control (required and readonly) | 1. Background image not appearing in the right place 2. Not exactly a bug but the name ‘plant-app’ for the database isn’t great because you can’t type this in in mysql workbench 3. Struggled to get the code to add/remove anything from the database | 1. Decided to place it below the body of the page for now, still looks ok 2. ‘plant\_app’ is better 3. Had various routing issues and typos with variable names |
| 28.04.21-  29.04.21  Two-table branch | * Added an extra table for gardens with no functionality * Deployed app as practice using an azure web app service * Created a ERD diagram and put it into readme file using markdown * Updated the azure devops board | * Write a home page app description for the user * Solve garden bugs * Properly implement dates rather than strings | 1. Bug: The garden field has disappeared on all pages 2. Ambiguous match exceptions 3. List of gardens can contain multiple of the same garden, which isn’t ideal 4. If a plant has a unique garden and the plant is deleted, the garden still shows in the database which is wrong 5. Git won’t let me push to new branches, it can’t find them at the moment 6. Dates aren’t properly implemented, they are currently strings in the form and in the database (app works despite this though) | 1. Need to just add a new migration 2. Ambiguous match exceptions solved by correct routing 3. – 4. – 5. Had to reconnect to the remote repo and then connect to the new branch, the plant app with two tables in, is now in the two\_table branch 6. Change the dates into some kind of date type, and the form to request a date type, this could cause more issues though |
| 30/04/21 | * Learned about unit testing: To properly test the app I will need to use mock testing and pattern repository because the app uses a database, I’ve realized this might be tricky to do, so rather than continue with the app, I will try to set this up (requires code refactoring) and then continue resolving the bugs with the garden table so that a TDD approach is adopted | * Solve garden bugs * Home page description * Write tests |  |  |
| 04.05.21 | * Added home page description (to the newest version) * Learned about deployment, this cant be done until tests have been written | * Rewrite code into repository pattern * Deployment pipelines with azure devops |  |  |
| 05.05.21 | * Attempted to rewrite the code so that it uses a repository pattern * Looked up how to deploy an asp.net project and set up an DevOps project | * Write tests   Deploy which will require creating a pipeline and an Ubuntu 18.04 VM build agent (A build agent is a server that allows pipeline jobs to run on it.) with SSH keys configured in an agent pool called dotnet-app-pool.  When running an ASP.NET application there are a few steps involved.   1. Restore the dependencies of the project 2. Build and compile the application 3. Publish the project to an artefact repository 4. Run your compiled code in your chosen environment. |  |  |
| 06.05.21 | * Finished Repo pattern * Wrote a few controller tests, not enough, but to finish the project on time I need to move on to deployment * Generated a test report | * Deployment * Write an analysis and explanation of testing | * Repo pattern gives ‘null object’ problem | * Solved a problem with abstraction, ‘class’ was written instead of ‘interface’ |
| 07.05.21 | * Wrote paragraph on testing and included report in readme file. * Created a VM with SSH keys, and agent pool, personal access token and wrote pipeline | * present | * Found a bug, update no longer works (I think this is due to a problem with IDs) * Pipeline getting stuck in restoring and building, it can’t find .csproj file | * Solved bug, the edit method needed adapting after using the repo pattern |