TM470 Work Diary **– KEEP REFLECTING!**

**26/02/2019 - Time**

Researching which frontend framework is most desirable for potential employers, and which will better suit my needs.

Using OU library to find resources for Responsive design

<https://www.fusioncharts.com/resources/developers/js-frontend-frameworks-comparison>

**28/02/2019 –** Working towards TMA01. Time spent 4 hours

Project plan creation

Read planning module text – wish I’d read earlier, should have begun planning earlier! Oh well, TM356 and all that!

Created Trello board to help me visualise tasks in progress and tasks to be done.

Next work planned: choose lifecycle model, begin writing TMA01.

**01/03/2019 – 2 hours**

Read preparing literature review section. Not very focused, didn’t achieve much, feeling daunted by workload!

Next work: choose lifecycle model, literature search and review

**02/03/2019**

Re-reading previous module notes, has made me feel more focused and given me some ideas of lifecycle model to adopt

Installing software I know I’ll need, VS code and Pencil for wireframes

**03/03/2019** – Time spent 3 hours

Created wireframes, taken longer than expected. Useful to really consider the functionality so definitely worth the time.

**06/03/2019**

Feeling motivated after TMA.

Created trello board tasks

**09/03/2019 –**

**Time spent:** 2 hours

**Work**: Set up working environment, git repo

**Comments**: Took less time than anticipated but will probably need more setup like node later down the line. Next work is finishing wireframes

**04/07/2019**

**Time spent:** 4 hours

**Work :** Recipe details page

Used vue router documentation – inc in literature review

Realised API doesn’t have method … gah!

Used <https://www.w3schools.com/jsref/jsref_encodeuri.asp> for URI encoding W3schools for documentation – resource

**25/03/2019 - 1 hour**

Finally picking project up again after getting behind on TM356. Reorganising Gantt chart to take TMA01 feedback into consideration. Have moved frontend investigation before CSS investigation as can’t implement CSS without knowing framework. Also have moved development of recipe search page alongside research. Abandoned mobile first approach as feel only appropriate if you have the knowledge beforehand, want to get some code implemented as proof of concept, then will make responsive afterwards. Rearranged to put some tasks in tandem so I can start implementation sooner rather than later.

Also added time to consider hosting and database, hadn’t included as wasn’t sure if it would make the scope of project too big, but Gantt has shown I should have time in the schedule. Still have some slack at end of project if needed.

Watched vue video – initial thoughts are might need more than just the view part

**28/03/2019**

**Time spent:** 3 hours

**Work**: React tutorial, setting up prettier and es lint as per tutorial

**Comments**: took ages. Time wasted as after all that pretty sure I’ll go down a different route, should have just read comparison rather than trying to program along and then decide!

**02/04/2019 – 1 hour**

Reading reactive frontends book, actually not that relevant for my research, as reactive programming can be integrated with any of the frameworks that I am potentially going to use. Does mention Ember which is another potential framework I had not considered.

<https://hackr.io/blog/10-best-javascript-frameworks-2019>

Have abandoned reading as reactive programming is a whole other thing I’m not sure I want to get in to in this project …

Pluralsight videos – check project notes for outcome

Still no decision on which framework to use, but React is out.

**12/04/2019**

Conducted interview with potential user to ascertain requirements.

Completed wireframes

**13/04/2019**

Have decided on Vue. See other document for more details.

Installed Node

Installed Vue library

Started tutorial.

**14/04/2019**

Set up Insomnia for API testing. Also tried Postman but found the initial setup too complex, Insomnia much easier to just set an endpoint and variables and get on

Started API comparison. Found EDANAM, but need to buy enterprise access to allow filtering by meal type so probably not suitable as have added this as a requirement.

Tried BigOven, but only paid for

Food2Fork only provides links to recipes from 3rd parties, and not the actual recipe itself.

Spoonacular, paid service so no although looks suitable.

TeeMEalDB – recipe pool is too small

All very Americanised, may have to manipulate results to make more UK friendly.

Used this to compare available APIs <https://www.programmableweb.com/category/food/api>

Hadn’t considered user login, but will be needed to maintina storecupboard – data storage implications.

Change of requirements as no api suitable for what I want, if was enterprise app then would/could pay

**14/05/2016**

More Vue reading, complicated, Web components spec and Slot API … lots to learn

**25/05/2019**

Started coding tutorial as docs are all reading and no practical. Using CLI tool – discuss in TMA.

<https://code.visualstudio.com/docs/nodejs/vuejs-tutorial>

Vetur extension

<https://hackernoon.com/a-progressive-web-app-in-vue-tutorial-part-1-the-vue-app-f9231b032a0b>

PWAs

**04/06/2019**

Responsive book chapter 2, a bit low quality and hard to follow along coding example

<https://hackr.io/tutorial/build-an-app-with-vuejs> trying to find a workable Vue tutorial.

**17/06/2019**

Started new project, used Vue CLI, has done all the set up for me, and I have a base Vue application to work from

Started layout for app, decided not to use responsive framework as no time to research, better to use my own styles as will learn more that way.

Picked colour palette for application

Using npm to run

Webpack – discuss use and alternatives

Added global styles in webpack config

Created nav component, first component done! Need to read more about webpack and normalising styles tomorrow.

**18/06/2019**

Normalise css to remove browser styles

**01/07/2019**

Style guide <https://vuejs.org/v2/style-guide/>

**02/07/2019**

Create recipe list and add ingredient components

Using Vuejs cookbook for axios integration

Installed ESLint CLI to be able to run –fix command

**04/07/2019**

Recipe details page

Used vue router documentation – literature review

Realised API doesn’t have method … not good!

Used <https://www.w3schools.com/jsref/jsref_encodeuri.asp> for URI encoding W3schools for documentation – talk about provenance, refer to JS spec?

**07/07/2019**

Acceptance test writing based on requirements, using scripted approach introduced in TT284, Scott Amber reference?

**08/07/2019**

Use this in the future

TMA03 writing

**30/07/2019**

Started backend implementation – why did I go for this stack?

<https://medium.com/@dinyangetoh/how-to-build-simple-restful-api-with-nodejs-expressjs-and-mongodb-99348012925d>

Resource no good, no explanaition of what was being done, no way for me to lear, just copying

Downloaded mongo <https://www.mongodb.com/dr/fastdl.mongodb.org/win32/mongodb-win32-x86_64-2008plus-ssl-4.0.11-signed.msi/download>

Installed Express

**31/07/2019**

Resource search, found <https://learning-oreilly-com.libezproxy.open.ac.uk/videos/full-stack-web/9781789345094>

Also includes authentication aspect.

**13/08/2019**

Trying to decide between Python and JavaScript (nodejs)

Python most in up and coming according to Github, Nodejs also one of the top frameworks to use

<https://technostacks.com/blog/top-programming-languages>

Researched previous resource – full stack vue thingy - <https://www.packtpub.com/authors/haider-rehman> think I’ll go with this as includes all components that I’ll need for the app.

Evaluation – every decision involves so much thought, always so many alternatives, sometimes can only decide once implementation has begun to get proper experience. Also might have been easier to use vue-bootstrap, not just for responsive but for general styling as had to implement that from scratch

Will go with that tutorial as contains aspects such as authentication which I need, and would be too time consuming to research everything separately as I am behind schedule

Maybe research vue and python before I get started if I want to

Discuss why I have chosen Mongodb for database – look back at TM351

Installed Mongo.

Discounted video as doesn’t use the database I want, also has lots of added Vue detail I’m not interested in like state management.

Found new resource which has node with mongo project which is what I need

<https://pmt-eu.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_pq_ebook_centralEBC5607670&context=PC&vid=44OPN_VU1&lang=en_US&search_scope=EVERYTHING&adaptor=primo_central_multiple_fe&tab=default_tab&query=any,contains,node%20mongo&offset=0>

Installing express to use – needs more research

**14/08/2019**

<https://learning-oreilly-com.libezproxy.open.ac.uk/library/view/restful-web-api/9781788623322/97344f4e-ba5a-4104-8308-77cbe5cf1a40.xhtml>

Why RESTful?

Why this resource?

Found this which looks promising, can just take out the Angular part and use Vue

<https://learning-oreilly-com.libezproxy.open.ac.uk/library/view/getting-mean-with/9781617294754/>

Food safety research

<https://go-gale-com.libezproxy.open.ac.uk/ps/i.do?id=GALE%7CA221092379&v=2.1&u=tou&it=r&p=AONE&sw=w>

**24/08/2019**

Reading responsive book chapter, don’t need to read the rest for the project as goes into lots of depth not needed for my simple project. Lots of talk about creating a grid which I don’t think I’ll need as layout is very simple with single elements per row

Gone with the flexbox route described in the book because achieves positioning and centering with minimal styles,

Book also suggested grid but flexbox has better browser support without need for fallback so gone with that <https://caniuse.com/#search=flex>

Found good tutorial for nav <https://webdesign.tutsplus.com/tutorials/how-to-build-a-responsive-navigation-bar-with-flexbox--cms-33535>

**25/08/2019**

Considered font awesome for menu icon – why these icons? Scalable so helps with responsiveness but was a big dependency to add for 2 icons, would consideron bigger projects.

Chose to download a couple of SVGs, quote responsive images crap from book. Had to credit the

Talk about flexbox documentation and how it’s been used for styling all app after reading about it in the book

Spending too long on styling

MEAN stack – pure javascript so not tons and tons of new stuff to learn, means scope not too great for the project. Mongo have experience from TM351, but focused on relational during my studies so wanted to expand my knowledge for document based

**26/08/2019**

Reading MEAN book, tools that I’m using now include Express and Mongoose. Make sure to mention them and what they are for.

Do I need to discuss what type of APIs? REST vs other? Probably quick note.

Heroku for hosting API app?

Lots of reading to get to the bits I want to, but really good indepth discussionon interesting topics and architecture possibilities. Probably would have been a good read to start from the beginning and may have steered me down a different path.

**27/08/2019**

Got the responsive menu working, needs improvement but good for a first go, used Flexbox docs and responsive book to figure it out.

Refactored to reuse ingredient list and ingredient item for the store cupboard

**28/08/2019**

Reading about food safety

Food safety page researched resources, wrote page text

<https://www.bbc.co.uk/programmes/articles/2V5HNS9srK9bXpLyhxLg8Lx/is-it-safe-to-eat-food-past-its-sell-by-date>

<https://www.telegraph.co.uk/food-and-drink/news/eating-food-past-use-by-date-really-harmful/>

Install Heroku CLI for hosting – just using as it’s in the book, was thinking to use AWS as have experience from TM352, what are the differences? Justify that Heroku is sufficient for my project.

**29/08/2019**

Deployed to Heroku, really easy, git based so easy for me to use. Why is it better than AWS though?

Need to research how to do other app, or maybe combine the 2?? Will do at a later date.

Starting to build data layer with Mongo and Mongoose. What are these 2 things?? Update the tasks/resources and skill table to reflect the technologies used.

Mongoose is a tool to make interaction with MondDB easier and to help with data modelling – reference MEAN book.

Installed npm package readline – needed for maintaining connections to the mongo db, inparticular for closing them when app stops.

**06/09/2019**

MongoDB talks only to Mongoose, and Mongoose in turn talks to Node and Express.

Tools – mention NPM and vue cli

Mongoose was built specifically as a MongoDB Object Document Modeler (ODM) for Node applications. One key principle is that you can manage your data model from within your application. You don’t have to mess around directly with databases or external frameworks or relational mappers; you can define your data model in the comfort of your application.

Used Mongo shell for DB interaction and adding some test data

mLab for production and local db connections. Setup seems to have changed since material written, so hopefully can figure out!

**07/09/2019**

Continuing setting up production database, mLab but not mLab, sandbox tier for free db cluster

Setting up environment variables

Used stack overflow to solve issue with environment variables <https://stackoverflow.com/questions/9249830/how-can-i-set-node-env-production-on-windows>

Started to build API

Planned required endpoints –

POST /users - create new user on sign up

GET /users/:userId - get user on login

POST /users/:userId/ingredients - create new ingredient for user

DELETE /users/:userId/ingredients/:ingredientId - delete ingredient for user

Setting up insomnia for API testing

**08/09/2019**

Finished APIs

Environment variables for vue <https://alligator.io/vuejs/working-with-environment-variables/>

Plugged in APIs to app

CORS issue -

Starting authentication

Hooking up include store items in recipe search - <https://stackoverflow.com/questions/38270089/reduce-array-to-a-single-string> for concurrent API calls – include that code.

Using crypto Node module, no npm as is native – for password hashing

Using jsonwebtoken npm module

Dotenv node module for using environment variables

Using Passport node module for authentication

Creating register and login endpoints and components, testing with Insomnia

Using express-jwt middleware to validate JWT.

Added authentication to apis to protect data

Created login and sign up components and plugged in apis, so can signup now, woo

Need tutorial of how to implement JWT in vue - <https://jasonwatmore.com/post/2018/07/06/vue-vuex-jwt-authentication-tutorial-example> lit review, seems legit