QA Practical Project

Web Application

Cansu Han

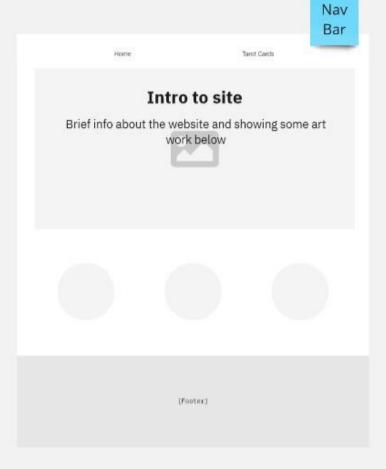
Introduction

- My initial approach to the project was to start planning by listing tasks
- Front-end design, types of data I was hoping to use
- Breaking down the project into smaller tasks
- Jira was beneficial with priorities, labels, which tasks I should focus on primarily and seeing tasks getting done.
- Challenging new concepts, I needed to do extra work to feel more confident with new technologies
- User Stories

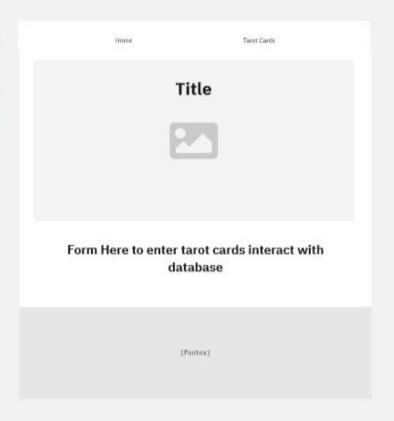
Concept

- My initial approach to the problem was to start by building the Spring Boot Application.
- I also wanted to get started with designing and working on front-end, as some of the concepts such as AXIOS and JS was very new to me I wanted to go over what we've been learning over the last two weeks.
- However, I knew that this would be challenging as there was very limited time. Therefore, as I was going through my notes, I was also tyring to implement them on my project at the same time.

Home Page

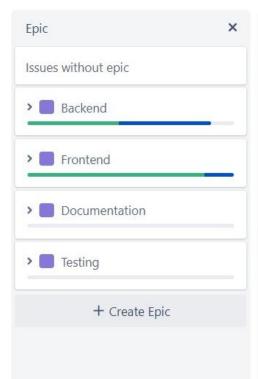


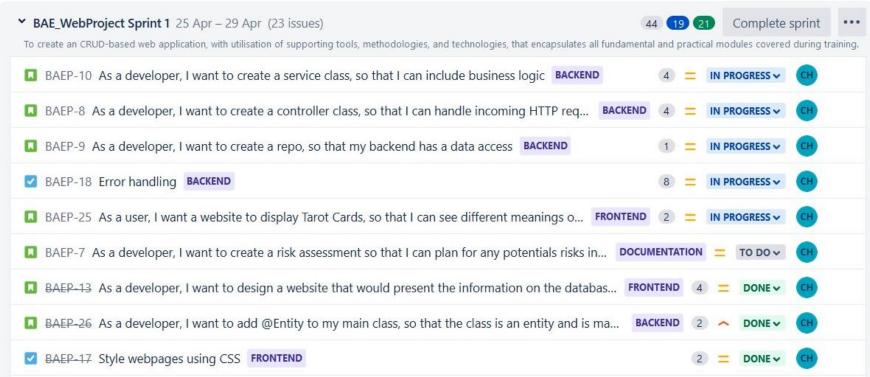
Tarot page



Sprint Plan

- My approach to Spring Plan was to create tasks initially to get comfortable with Jira Software, then I practiced working on User Stories
- Including user stories, story points, and MoSCoW prioritisation
- I hoped to complete tasks based on priority and mark them as done as I progressed through the project

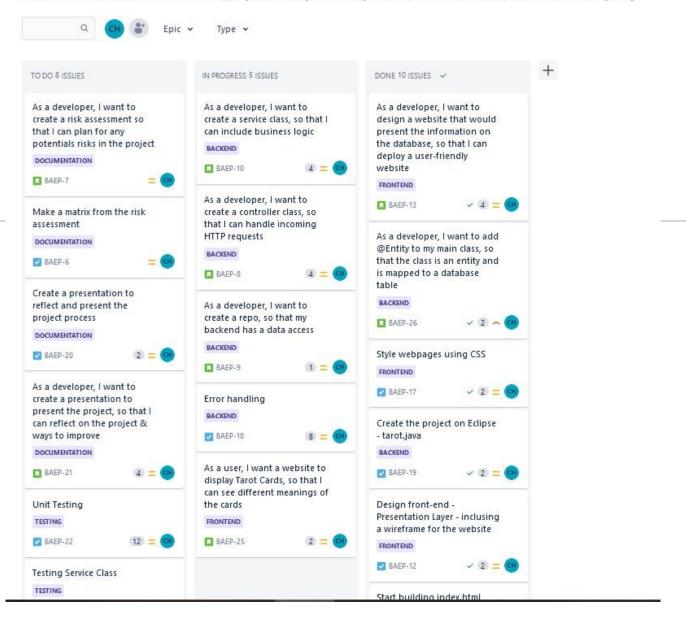




Projects / BAEWebApplicationProject

BAE_WebProject Sprint 1

To create an CRUD-based web application, with utilisation of supporting tools, methodologies, and technologies, that encapsulates all fundamental and practical modules covered during training.



Consultant Journey

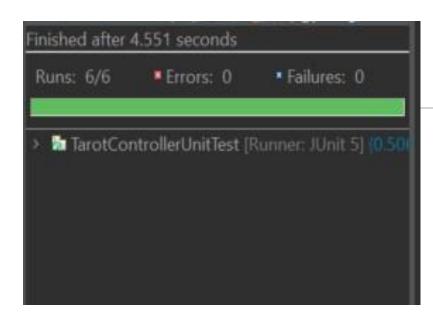
- Git
- GitHub
- Jira
- MySQL Server 8.0+
- Java
- Spring
- HTML, CSS, JavaScript
- Maven
- JUnit, Mockito
- Challenging but very enjoyable learning process in such short time! I would like to improve on what I've learnt and develop in my own time so that I can become more comfortable with these technologies.

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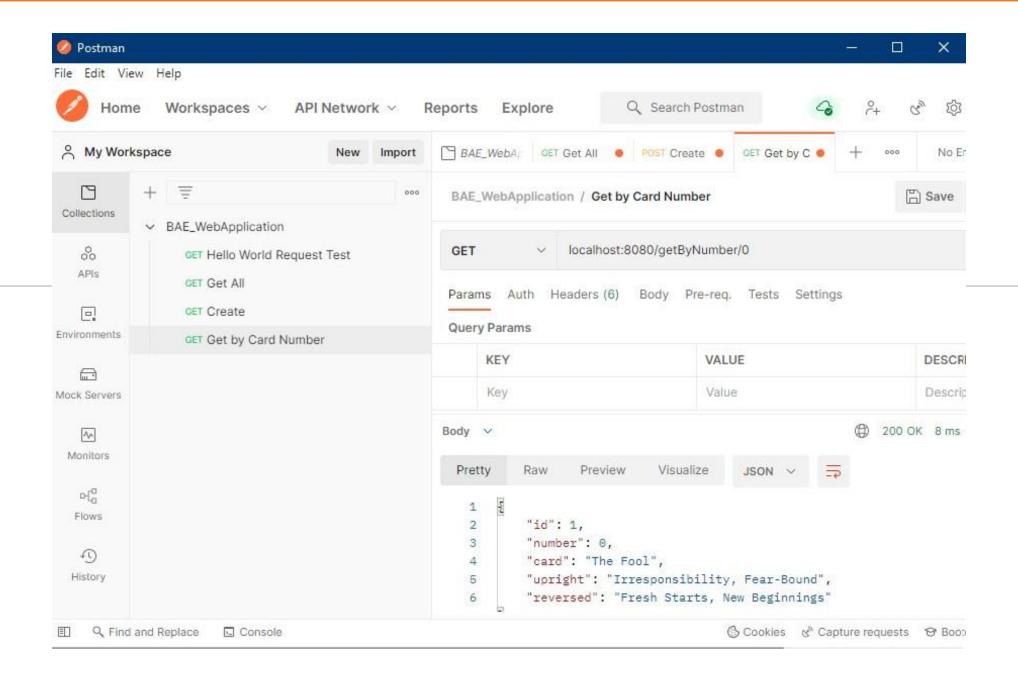
- Using the version control system was beneficial, I tried to push my work onto source code management regularly (GitHub).
- Practicing including very descriptive notes with each commit as this would be required in a group project
- Utilising the feature-branch model was definitely worth practicing, especially for future as team works require this model, allowing file comparison, differences, and merge the changes if needed prior to committing code

Testing

- Automated tests, Unit Testing and Controller Integration Testing were the main tests carried out to make sure individual unit or component functionalities were working fine.
- I learnt how to write a unit test case by using Mockito and JUnit.
- As mentioned in the specification I tried to cover 70-80% of my code with tests (78.5%) some of the tests came back with errors, however I am hoping to improve on this and push my coverage to 80%.
- If I had more time I would spend more of the development process on tests and get more comfortable around the testing concepts, especially Mockito.
- Furthermore, I also carried out manual tests on Postman and MySQL workbench to ensure the API was functioning.



□ Console □ Coverage ×					
Element	Coverage	ed Instructions	ed Instructions	tal Instructions	
✓	84.2 %	738	138	876	
🕶 👺 src/main/java	78.5 %	274	75	349	
> # com.qa.baewebapp.excep	0.0 %	0	13	13	
> # com.qa.baewebapp	37.5 %	3	5	8	*
> # com.qa.baewebapp.contr	86.4 %	57	9	66	
> # com.qa.baewebapp.servi	88.3 %	68	9	77	
> # com.qa.baewebapp.dom	78.9 %	146	39	185	
> 🐸 src/test/java	88.0 %	464	63	527	



	id	card	number	reversed	upright
•	18	The Fool	0	Irresponsibility, Foolishness, Fear-Bound	Fresh Starts, New Beginnings
	19	The Magician	1	Manipulation, Powerless	Initiation, Focus, Intention
	20	The High Priestess	2	Self-doubt, Ignoring intuition	Intuition, Subconscious mind, Inner knowing
	21	The Empress	3	Drained energy, Low-self-worth, Stagnation	Growth, Creation, Beauty, Joy, Abundance
	22	The Emperor	4	Abuse of power, Forcefulness	Assertiveness, Boundaries, Authority, Structures
	23	The Hierophant	5	Unconventional, Going against the norm, Findin	Wisdom, Ancestors, Tradition
	24	The Lovers	6	Indecision, Separation	Choice, Union
	25	The Chariot	7	Imbalance, Out of control	Movement, Progression, Purpose
	26	Strength	8	Overly controlling, Impatience	Compassion, Patience, Gentleness, Confidence
	27	The Hermit	9	Isolated, Loneliness, Disconnection, Escapism	Inward, Reflection, Solitude, Meditative state
	28	Wheel of Fortune	10	Change in circumstances, Stagnation	Fate, Luck, Impermanence
	29	Justice	11	Unfairness, Undecided, Unjust outcome	Fairness, Equality, Decisions
	30	The Hanged Man	12	Self-sacrifice, Resisting surrendering, Struggle	Observation, Pause, Suspension, Releasing con
	31	Death	13	Holding on to the past, Resistance	Transformation, Endings, Release
	32	Temperance	14	Imbalance, Polarities, Overindulgence	Alchemy, Liminality, Harmony
	33	The Devil	15	Unhealthy Attachments, Shadow Self, Breaking	Commitments, Binding Agreements
	34	The Tower	16	Rebuilding After Change, Dismantling Status Quo	Disruption, Dismantling, Sudden Developements
	35	The Star	17	Hopelessness, Disillusionment	Healing, Hope, Inspiration, Guidance
	36	The Moon	18	Finding Truth	Shadow, Subconscious, Emotional Sensitivity
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Sprint review

- I completed almost all of my tasks on my project sprint. I was very beneficial to get into prioritising of tasks and story point estimations. We were introduced these concepts on the first week of the course, however having practiced them now I can definitely say I am more confident planning a project, using Jira and working on user stories.
- I had some issues with error handling and some errors with testing and JavaScript on frontend side of the project. These were the tasks that were left behind, however, with more time I will definitely feel more confident around these issues.
- I am still hoping to work on the project and the system deployed post submission as I want to feel more confident with these technologies.

Sprint retrospective

- In overall, it has been and enjoyable process to get things working and grasp how different technologies interact with one another. I encountered various ways to doing the same the things and I think I did my best in delivering what I could in the time we had.
- However, I did come across some errors during completion of some of the tasks. This mainly included some of the front-end aspect, as I am new to JavaScript and the concepts such as AXIOS, I could say I struggled with this the most.
- The back-end concepts were easier to deal with on Spring and perhaps we've just learnt them recently and with the help of you, trainers, I was able to understand things better.
- I attempted to solve some of the issues myself as this is the best way I can learn. I do hope to practice more and perhaps start a similar project again so that I can become more confident and understand how things work, get used to the terminology and learn new ways of writing and deploying code.

Conclusion

- In general, I am happy with my progress on the project. I was introduced to new concepts with QA training over the last few weeks and I definitely made good progress this week putting these in practice.
- I think I became more confident towards the end of the week after completing the majority of the tasks, and this is a great progress for me as I had no prior background knowledge.
- If I had more time, I would start working on the front-end and start building it from beginning, I think particularly need more practice with JavaScript. Another important thing I want to improve on would be Unit Testing, especially with concepts like Mockito. I struggled with this the most but I am sure with time and some more practice I will become more confident.
- I am hoping to put what I've leant to practice and find better and more efficient ways of writing code.

Thank you!

- Thank you for all your help and support throughout the week!
- Please let me know if I can expand on anything and I am happy to answer any questions.