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| **Reflective abstract (up to 150 words)**  Please help the marker give you useful, personally-tailored, feedback by completing the sections below. Nothing you write here will adversely affect your mark. | |
| What mark do you anticipate your essay will achieve? | << insert here the mark you anticipate your essay will achieve >> |
| What do you think you did well in the writing of this essay? | << insert here aspects of your essay that you think went well >>  Reflective report |
| What aspects of your essay do you think may need improvement? | << insert aspects of your essay that you think may need improvement here >>  Critical Review |
| What areas of feedback would be most helpful for you? | << indicate what feedback would be most helpful for you here >> |

PART I << CRITICAL REVIEW >> (not less than 500 words)

I .1 INTRODUCTION

<< In this section, state the purpose and scope of the critical review, and include a little background on the choice of enterprise systems modelling framework >>

The purpose of this Critical review is to explore the pros and cons of our chosen modelling framework. I chose to use both Astah Professional and Draw.io as I started off with Astah but I found that when creating some of the UML diagrams that it was lacking some of the features that I wanted to display.

In this critical review, we will delve into the strengths and limitations of our chosen modeling framework. To provide a thorough evaluation, we decided to use two tools: Astah Professional and Draw.io. Initially, we began with Astah, but during the creation of some UML diagrams, we found that it lacked certain features we wanted to include. Therefore, we also turned to Draw.io to supplement our analysis.

1.2 EVALUATION CRITERIA

<< In this section, explain and specify the evaluation criteria to be applied to the chosen modelling framework, e.g. cost, capabilities, performance, usability etc. >>

Cost

Performance

Features

Ease of use in teams

1.3 EVIDENCE (WITH EXAMPLE ILLUSTRATIONS) AND ANALYSIS

<< In this section, provide evidence of modelling framework performance in enterprise systems modelling. For example, provide examples from the literature and illustrations of enterprise systems models taken from the UWEFlix case study such as:

* Requirements models (use cases or user stories)
* Requirements specifications
* Business <<type>> models
* Interface and service models
* Component sequence diagrams
* Architectural models (both service and component based)

For the example illustrations, analyse the evidence by applying the evaluation criteria where appropriate.

Make sure you **include** the **modelling diagrams** in **Appendix B not in this section** while you cite each within the text you include in this section>>

For the use case diagram, I made this in Astah as it has a specific template to create use case diagrams in with the correct UML diagrams.

## Cost

With regards to the cost, Astah offers a free license to students for their Astah UML software but charge for the professional version. They do provide a free trial for individual users but do not for teams. The cost of the professional software starts at $9.99 a month which gives you access to features that the free version does not like the ability to create requirement diagrams. You can find the full list of prices and features on the Astah website (ChangeVision, Inc. 2023). Whereas draw.io is free to use online for anyone and does not have a professional version with more features. This would be a benefit for smaller companies or individuals who do not have the capital to purchase modelling software.

## Performance

I found Astah’s user interface to be a bit fiddly and confusing for some of the models that I was trying to make as they would not display all of the symbols that you wanted to use unless you would change the model you are trying to make, this is when I switched over to draw.io as all of the UML symbols were stored in one place and very easy to drop into your project.

## Features

## Ease of use with teams

Both Astah and draw.io allow you to work on the same project with a team. Although if you are using the free version of Astah some of the team features are locked unless you upgrade to the professional software. This is shown on the Astah website. (ChangeVision Inc. 2023)

1.4 CONCLUSIONS

<< Draw upon the evidence and analysis presented in the previous section, together with any relevant and useful sources, to derive conclusion(s) >>

ChangeVision Inc (2023) Pricing. Available from: https://astah.net/pricing/ [Accessed 8 January 2023]

ChangeVision Inc (2023) Compare Editions of Astah. Available from: https://astah.net/products/compare-editions/ [Accessed 8 January 2023]

PART II << REFLECTIVE REPORT >> (not less than 300 words)

2 .1 INTRODUCTION

<< In this section, state the purpose and scope of the reflective report, and include a little background on the teamwork you practiced >>

I worked alongside another person when implementing the project, this allowed me to bounce any ideas I had off them and hallowed me to have another set of eyes when problems arose

2.2 REFLECTIONS

<< In this section, identify and explain what went well, what went wrong while you developed and implemented your software. Try to draw attention on your good practices and issues that you faced and resolved. You may like to go with sub-headlines if you like. >>

## Issues faced

When I initially started development, I ran into some difficulties whilst navigating the file layout that Django creates. Although it is very helpful that Django creates most of the files needed to create a project but when you have not had much experience it can take a while to comprehend which files you need to be accessing and where the changes need to be made.

## What went well

Once I had wrapped my head around how the Django project is set out the development process was relatively straightforward. To create my models, I referred to the UWEFLIX specification that was given to us an extracted all the key data objects that would need to be made into a database for the Account Manager user. I also particularly liked the way that Django could handle forms for you by using the build in forms module which streamlined the development process drastically.

I also had the debugger set up for when I was running the Django project, this really helped when any errors occurred as it gave a much better traceback which made the debugging stage a lot easier

2.3 CONCLUSIONS

<< Draw upon the evidence and analysis presented in the previous section, together with any relevant and useful sources, to derive conclusion(s) >>

I would use Django again for development as I have used Flask for web projects before, but Django is able to streamline the implementation which would allow me to be more efficient in my development.

REFERENCES

<< List references cited in both parts of the report using UWE Harvard style >>

Appendix A

<< Provide the GitHub link of your code >>

https://github.com/JMoran1/DESP

Appendix B

<< Insert all modelling diagrams in this section. Make sure each figure has a figure title with which you cite each within the text body >>