# Conclusions

## Final conclusions

To conclude this project, the main aim of this project was to unify some of the best features from available solutions/password managers and to minimise data loss/exposure using the idea of compartmentalisation which also assists organizability.

Based on the evaluation of the results from testing, it was concluded that this project has met this aim where unit testing was conducted alongside user feedback as well as comparisons between some of the well-known password managers as shown from section 6. However, it’s worth noting that this doesn’t fully prove that it’s a working solution, this is because the true success of this application depends on long-term effects such as data breaches in which the user would be less affected due to the prevention of the data being crosslinked together.

Moreover, it’s undecidable as to whether or not this password manager would or should be used in comparison to others as it lacks in areas such as cross-platform usage meaning unlike other password managers, this can only be used on a desktop Windows device. Also, this may not be the most secure solution as it’s developed in the .NET framework which makes it vulnerable to memory attacks as the vault is loaded into the memory once decrypted, although this isn’t a web application and thus online threats aren’t an issue and an attacker would need access to the user’s device to steal information from the vault.

## Future work

While the system was successfully developed and a final product was released, when evaluating the system, there are several things that could’ve improved it, for instance; a topic to explore further would be the portability as currently the application only allows exporting/importing from the same application, but there could be more research done to parse formats from other password managers so that they won’t have to manually input each.

What could’ve been better is if there was also a browser extension made for this system as many password managers tend to have one due to it being easier to access, however this would mean that a programming language such as JavaScript would need be learnt. This also means that that the application may need to have online access, and so it may require further research regarding online threats.

Due to factors such as time constraints as well as lack of knowledge, these were considered to be out of the scope of this project and so there could be better planning done in the future.