REPORT TITLE

By

Group C

Submitted to

The University of Liverpool

MASTER-OF-SCIENCE-TITLE

*Module-Name*

Word Count: XXX

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# Introduction

*{This chapter introduces the Report, its aims and objectives, the IT artefact to be investigated, the problem, the question(s), approach and potential outcome.}*

# Solution Design

*{This chapter represents the main section of your report. It develops argument point by point, including the reasons that support the argument you declared in your introduction.)*

Solution overview

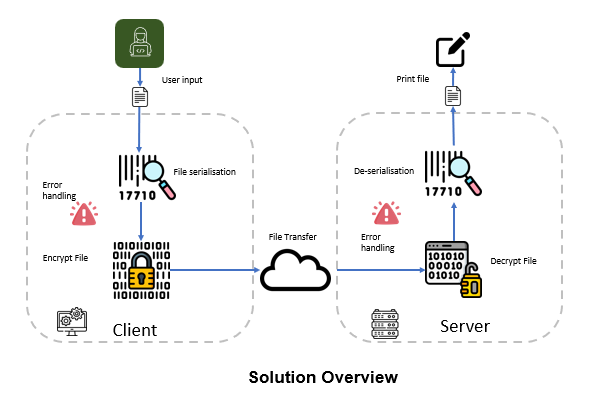


Figure 1. Solution overview

Technical Flow

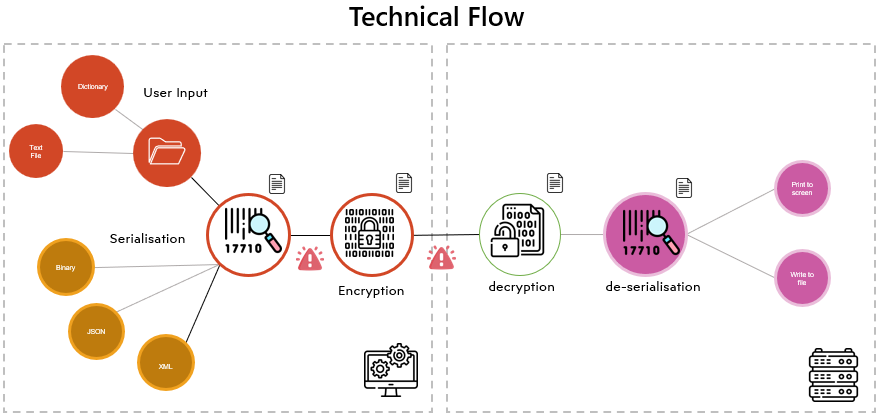


Figure 2. Technical Flow

|  | **Description of activities** |
| --- | --- |
| 1 | User to input a Dictionary or Text File (How would user input, will it be a front end? |
| 2 | File is serialised using Pickle module into a Binary, JSON or XML format |
| 3 | File is encrypted using….  How you encrypt a file or dictionary will be different |
| 4 | Key pair generation (store the public / private key pair) |
| 5 | Connection is established from client to the server |
| 6 | Encrypted file is sent to server (using https an API call) |
| 7 | Server receives the file and decrypts |
| 8 | File is de-serialised and store. Where? |
| 9 | Received file is printed or written to a file |

Design Decision

|  | **Design decisions** |
| --- | --- |
| 1 | Decision to use text file because…. |
| 2 | File serialised into JSON because… |
| 3 | File encoding decision.. |

# Testing

*{This final chapter serves as a summary of the project from a holistic perspective. It includes a critical review of the achievements and limitations of the project, from both an academic and business perspective. It includes suggestions for potential research in the future}*

Serialization Unit Testing

Encryption Unit Testing

Network Unit Testing

File Transfer Unit Testing

Decryption Unit Testing

De-Serialization Unit Testing

Integration Testing

# Conclusion

REFERENCES

{The purpose of a citation is to lead the reader to the correct reference entry. If it is a quote, the in-text citation includes the page of the quote so that the reader goes to the reference entry to access the source and then the page. Only sources actually cited are included in a reference section. You may have had other sources you read but ended up not citing. They are not included in the References listing.

This section includes all references cited, using the Harvard-style referencing format as described within the University Library portal.}

APPENDICES

|  | **Group Artifacts** |
| --- | --- |
| 1 | GitHub Repository |
| 2 | Client Server Network Project report |
| 3 | Requirement.txt |
| 4 | Readme.md |
| 5 | Log of Github code review |
| 6 | Log of Github push comments |