React Web App – Decisioning Dashboard

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Level 4 Software Development

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# Introduction & Requirements

# Stakeholders Involved

To develop the project, I consulted a number of stakeholders for support. A summary of the input from each stakeholder is recorded below. Communication methods used are also logged as:

* **F** = Face to Face
* **IM** = Instant Messaging via Microsoft Teams
* **C** = Call via Microsoft Teams
* **E** = Email

|  |  |  |
| --- | --- | --- |
| **Stakeholder** | **Methods** | **Input** |
| Credit Risk | **F, IM, C** | * Sign-off for project with Line Manager |
|  | **F** |  |
|  | **E** |  |
|  | **IM** |  |

# Design

# Development

## CRUD - Database Connection

### Personal Data (PII) Protection

~~This access management configuration can also be used for another purpose: protecting Personal Data (PII). Credit Decisioning Systems like this must collect personal data to be able to conduct a credit search on a person e.g. Experian’s DelphiSelect API requires at least:~~

* ~~Full name of the person in question~~
* ~~Date of Birth~~
* ~~At least the current address of the person in question~~
* ~~Previous addresses are also often needed if the person in question has resided at their current address for less than 3 years~~

~~(Experian, 2024)~~

~~Each of these Data Points are protected under the UK's Data Protection Act 2018, which also codifies the GDPR into UK Law (Data Protection Act, 2018). The program is currently collecting the Full Name of the user as a starting point to allow a full API integration in future. This means the program must be mindful of Data Protection/GDPR requirements.~~

~~Using a SQL databases within the program creates the risk of SQL Injection, where malicious input into the program can lead to arbitrary execution e.g. a user passes in a SQL command instead of a name (W3Schools, 2024). This is where the SELECT and INSERT permissions assigned above come into effect. The Full Name collected in the application is only saved to the “dbo.JavaDecisioningHistory” , which the integration user only has INSERT permissions on. This prevents a malicious user from entering a query to retrieve data from this table, as the database permissions will result in the query being rejected.~~

~~The only other permission the Integration User has been granted is the SELECT permission on the “Delphi.VW\_DelphiPremiumValueData” and the “Delphi.VW\_DelphiSummaryData” views. These are the only other views required by the program, so by limiting the access like this the possibility of risk incurred by SQL Injection is minimised and therefore acts as a control to protect Personal Data.~~

### Credentials within the Web Application

# Testing the program

## Unit Tests

## Debugging Errors

# Review with Employer

# Conclusions

## Project Outcome

## Future Additions

# References