Friday assignment

General part:

1. Explain the rationale behind the topic Object Relational Mapping and the Pros and Cons in using ORM:

ORM is a technique that lets you query and manipulate data usually from a database using an object-oriented programing.

Pros:

* You only write your model once, which makes it far easier to update and maintain.
* A lot of things are done for you, from handling the underlying database connection(s) to localisation.
* Allows developers the use of a quarry language, meaning they don’t "need" to learn the database language.
* SQL injection is a lot more difficult as queries are prepared and sanitised.
* It can improve the formation of the underlying SQL. Developers can sometimes be bad at forming SQL.
* When you change the underlying database, you do not have to rewrite code.
* Models use OOP, which means you an extend and inherit from Models.

Cons:

* While many CRUD (create, read, update and delete) queries run without performance issues, more complex queries can lead to performance issues if not written properly.
* If the developer isn’t focusing on the database model (tag names and relationships between entities), then this may lead to poorly design databases and code structure.