# Unit 5 UML modeling exercise

All diagrams based on lecturecast 5 covering object-oriented analysis (University of Essex, n.d.)

Abuse Case

Data driven applications accessible from the internet are subject to external attacks from many types of threat actors. Attackers making persistent guesses at passwords until they successfully authenticate is a common approach.

Internal employees cannot be overlooked, those with access to data may be able to delete specific data records.
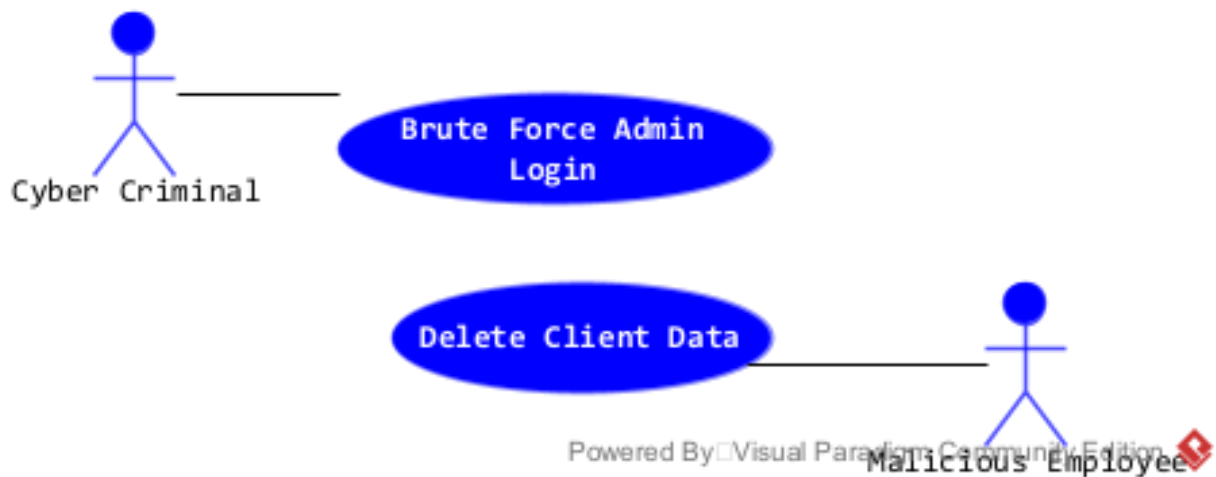
Sequence Diagram

The sequence diagram below conveys the events that will take place within the parking application when a user attempts to authorize parking for their vehicle.
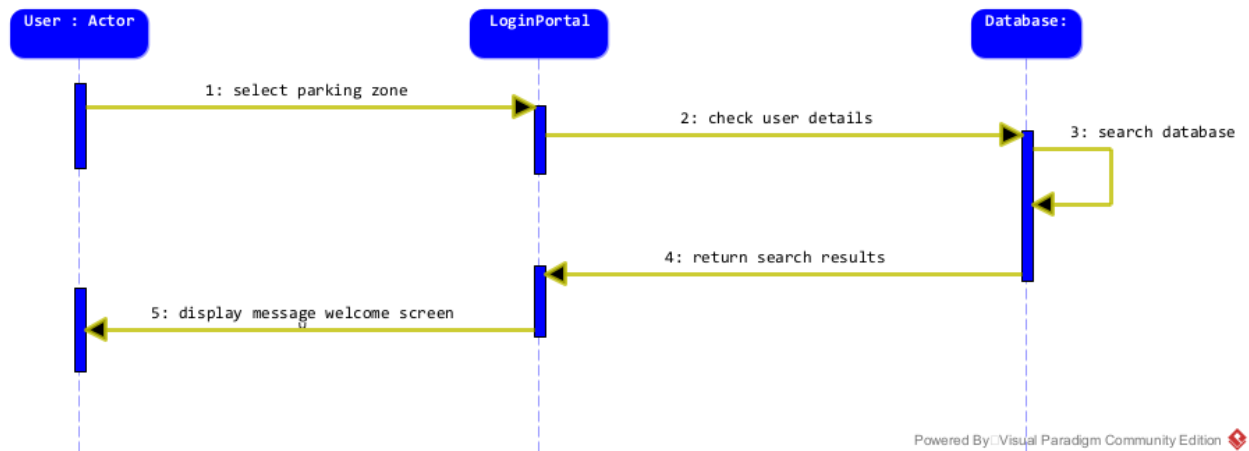
Class Diagram

The class diagram below identifies the data attributes of two objects, *Orange* and *Basket*, as well as the behaviours those objects can perform. The relationship between *Orange* objects and *Baskets* is many to one, I.E., many instantiated *Orange* objects can be stored in a single *Basket* object.
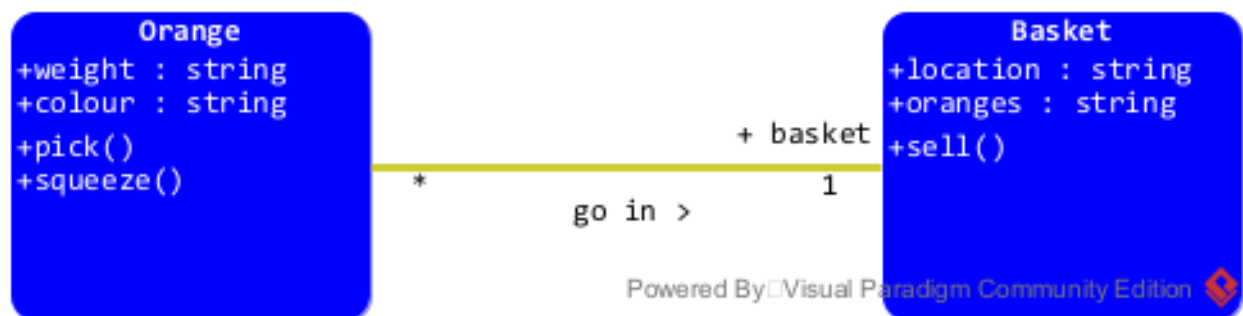
References

University of Essex. (n.d) Object-oriented Analysis, Design and Programming Techniques for Secure Systems. Available from: https://www.my-course.co.uk/Computing/Cyber%20Security/LCYS/LCYS%20Lecturecast%203/content/index.html#/ [Accessed 8 June 2021].