# CS 255 Model Application Short Paper

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## Process Model Application

To better understand process model, it helps to know the meaning of this function and how it looks more like an outline for business analysis. According to Vanner (2020), Process modeling is the graphical representation of business processes or workflows. The process model is a diagram of boxes with lines showing how the system should work and what part of the system is connected to another part helps determine how the system executes the data. The data flow diagram is a common example of how the process model is used.

The process model helps when businesses like Wal-Mart are working towards automation. This is an example of agile workflow for business to improve towards automation.

Working for Wal-Mart seeing the process model and how the company in implicating new programs and robots to automate the jobs shows how process model works for big box companies. Wal-Mart now has general merchandise and grocery distribution centers that have robotics picking and sort the freight to help service the customer at a faster rate (2022), (Steinbrink, 2020). Getting to work with the people that have been creating these programs and seeing how the process model helps them stay on track and how they will update things when the program does not work as expected. The team will take notes on what is not working during a call with local employees to help figure out what they were missing and update accordingly.

In DriverPass the model process would help determine what the outline of the project would look like. This would help the team know which parts are the most important and which part should be enhanced later. Since this is a new development, it would be slightly different how a business-like Wal-Mart would use the process. DriverPass would be starting from the ground up and may rely on the diagram more. Having the outline and seeing a visual on how things should look and if there are key factors missing or not helps.

## Object Model Application

DriverPass would want to use the object model when creating the class diagram. Object-Oriented Programming as known as OOP, is the a fundamental paradigm in modern software development that has transformed the way we design, build, and maintain software systems (GfG, 2023). This would help in creating the object class and determine which part of the attributes will be public or private domains. Using this can also help with the readable on polymorphism and encapsulations to determine if there should be separate classes for admin roles. Encapsulation can help with hiding the data that is private and should not be accessed directly like credit card information and addresses.

## Process and Object Model Comparison

Using both models can help in different ways. The process model can help with outlining the process and keeping things organized. Whereas object modeling is more used in creating the coding part of the development for the program. Using object-oriented programming keeps the code manageable and easier to read. If it wasn’t for this the code could suffer and have public data unhidden. The process model would be better used on a company like Wal-Mart verse a smaller company like DriverPass. DriverPass is a small scale that may not need an outline in addition to an object model to show the process on how to create the public and private domains.

## References

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