# CS 255 Model Application Short Paper

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## Process Model Application

[How would you apply a process model to a design for the DriverPass scenario?

A process model is a diagram that visually shows the step by step process of building a system. It lays out what is expected, needed, and what is required. in order to apply a process model to the driverpass project. i would use the a process model by taking each process needed and laying them out in a dfd. being sure to be as complete as possible so nothing is left out. completeness will ensure that all parts are included, so I don't need to go back and add to it later. this will prevent a lot of headache, problems and time wasted.

In the driverpass project the users would be the company owner, the company's employees, and the clients. A cloud would need to be created to store all the information about the clients and the system. i would need to add support for logging in selecting packages viewing past results and scores and making payments etc... I would follow the dfd carefully making Shure everything is included this will ensure that its all done completely and accurately.

## Object Model Application

In system modeling and design one important aspect is object modeling because it gives provides a visual of all the different parts of a system so there is an outline of how the system will be built and everything included. the object model will show polymorphisms, encapsulations, and well as different relationships between objects and how they all connect together which can be very helpful when designing a system.

I would use encapsulation to be able to block asceses to some components to specific users. the companies clients don't need to be able to access the systems code in order to use the system. I will use polymorphism to be able to use multiple instances of an object in different classes at the same time. i can use it to extent one class to another without the need for creating additional classes.

## Process and Object Model Comparison

The difference between proccess models and object models is process models show the systems overall design showing clear and concise diagram of the whole system and how it will all work together to create a working system and it ensures that all the clients needs are met.

Object models are a more complex visualization of how to the components of a system will work together. it represents things like functions, classes and attributes. it will give a much better visualization of the systems development. a disadvantage to using an object model is the complexity of it may be overwhelming or difficult for a client to follow. I would want the client to easily se how the project will flow. for this reason a process model would be a good way to go. the client is more likely to approve the design if they can understand it better. Once the client approves the design I would be able to continue with the system development.

## References

Kumari, R. (2020, November 29). *What is System Analysis and Design? | Analytics Steps*. Www.analyticssteps.com. https://www.analyticssteps.com/blogs/what-system-analysis-and-design