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| Checkpoint 1  INFS604  System Modeling |
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## Week 1

### About my phone

My mobile phone is categorized as a smartphone. It helps me a lot on my day-to-day basis with technology-related tasks:communication *(Phone, Messenger, Zalo, etc.)*, commute *(Google Maps, Grab, BusMap)*, banking *(MB Bank, eBanking, Momo)*, shopping *(Shopee, Lazada, AliExpress)* and more. Beside that, it also provides entertainment media via online platforms such as *YouTube, Netflix, FPT Play,* games, etc.

All of those applications are working smoothly thanks to a decent processor with plenty of memory, and I can store a lot of photos with the 512GB internal storage. The phone can last a full working day so I can leave my charger at home, which helps lessen the devices I need to bring with me.

It brings me convenience and enjoyment while using it.

### UML for modelling service stack

Both types of UML diagram ­— structural and behavioral, can be used to model a service stack of User Interface, Applications, and Infrastructure. Structural diagram can be used to show the objects within the stack and how they are related to each other. Meanwhile, behavioral diagram can be used to describes how the objects interact with each other and show what will/should happen in the stack.

UML can provide a clear and intuitive demonstration of the stack’s processes and design for every parties.

* Case diagram: Describes the *Experience* layer
* Class diagram: Describes the *Application* layer
* Summary class and Actitvity diagram: Describes the *Physical* layer

## Week 2

### ArchiMate to model an enterprise system

The three layers in ArchiMate are:

* Business
* Application
* Technology

and the three aspects are:

* ???
* Behavioural
* Passive

### Enterprise Architect

Enterprise Architects are people who

* Analyze, design and validate changes to the architecture following the principles and needs of the enterprise.
* Provide consultancy on architecture and solution design for departments within the enterprise.
* Formulating and enhancing the strategies of the enterprise.

In short, they are the people who proposes the overall structure and process of an enterprise to match its needs.