

IBP2313

Introduction to Information Systems

Dr. Pongrapee Kaewsaiha





Fundamentals of Computer-based Information Systems in Business Operations





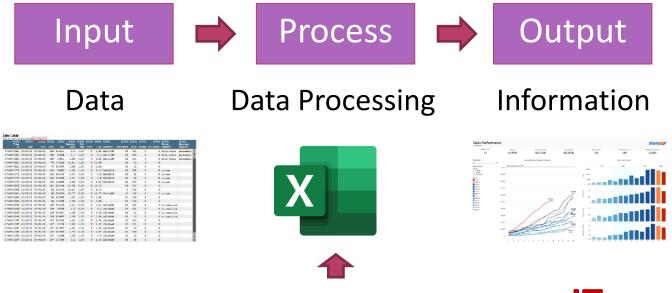
What is an information system?



Information System: IS



A typical system will have three components.





Technology used to process the data → T

Some known ITs





Excel: Calculate data, create charts, ...



Email: Send text messages and files



Cloud Drive: Save and share files



Card Reader: Make contactless payment

What about ISs?



- Collect data from users
- Save and organize data in appropriate forms
- Find and retrieve data when user request
- Do the calculation as needed
- Display results to users

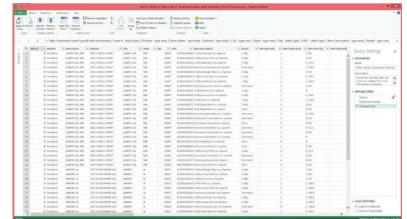


Point of Sale: POS







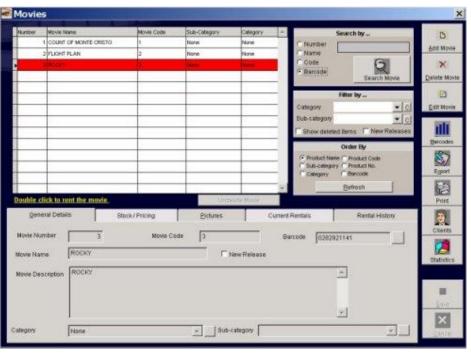




Book/DVD Rental System









http://www.creative-software-solutions.info/html/movie.asp

Library Management System







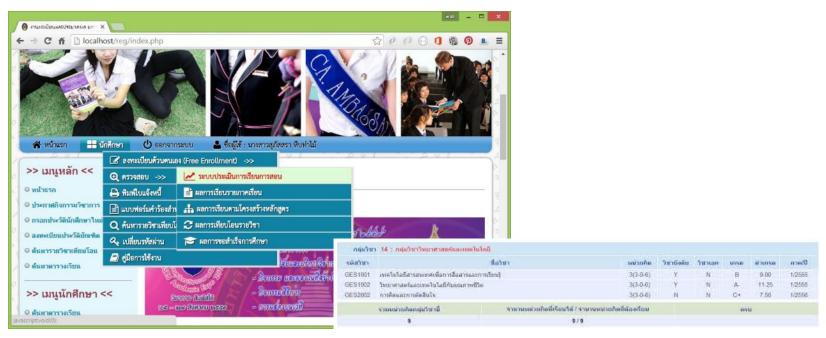
https://www.eziline.com/product/college-librarysystem/



We have one of these at http://www.library.ssru.ac.th

School Registration System



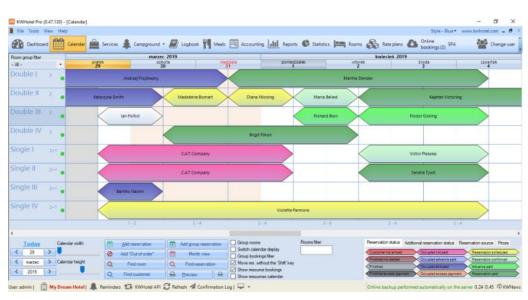




Property (Hotel) Management System







https://kwhotel.com



Ticket Reservation System





https://codecanyon.net/item/ebus-online-bus-reservation-ticket-booking-system/14374387

- Transportation
- Cinema
- Restaurant
- ...





Ways to develop a new IS



1. Integration of existing systems

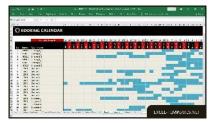


Use what we have in hands to create a new system to suit our needs.

Examples



Use data collecting forms to create employee's database.



Create a hotel reservation sheet using Excel.



Focus on using only what we have:



- Cheap to implement
- Easy to learn how to use
- To meet an urgent requirements
- To practice or find possibilities



2. Use freeware

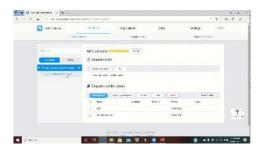


Ways better than applying general-purpose software and more specific to the task.

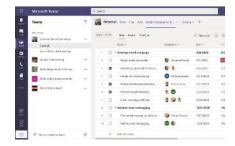
Examples



KW Hotel (Hotel Management)



DingTalk (Workspace Management)



Microsoft Teams
(Workspace Management)

Using freeware:



- No additional cost.
- Often have limited options.



A free version of KWHotel

- One station only
- Cannot connect to online agencies



3. Use commercial hardware/software



- Quite expensive.
- More functions and supports.

Examples



Commercial POS (Storefront Management)



Microsoft Power BI (Business Analytics)



Auto Trader (Stock Trading)

4. Custom-designed software

HM

- The most expensive to develop.
- Best suit the tasks.

Examples



Starbucks POS



Custom warehouse system



Custom product design