



# Computer Part Builder

By David Nguyen and Andrew Nguyen

# System Description

- Our project is a computer part builder.
- Users can use this tool to build their own computer online
- The users will be able to pick specific components for their system such as:
  - CPU
  - Motherboard
  - Graphics Card
  - Memory
  - Case
  - Power Supply
  - Storage
  - CPU Cooler



# Implementation Details

## Integrated Development Environment (IDE)

- IntelliJ

## Database

- mySQL implemented with MariaDB

## Language

- HTML, Javascript, CSS, Python



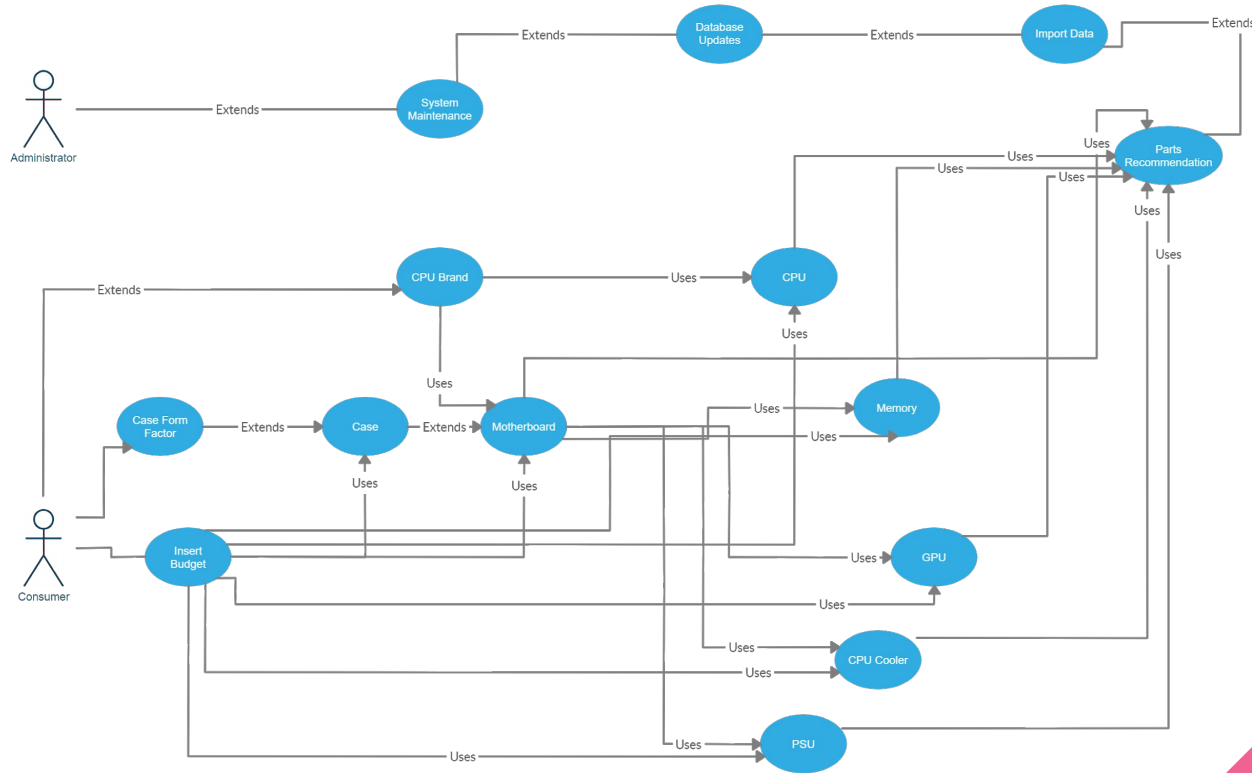
# Most Important Use-Cases

User Use Cases:

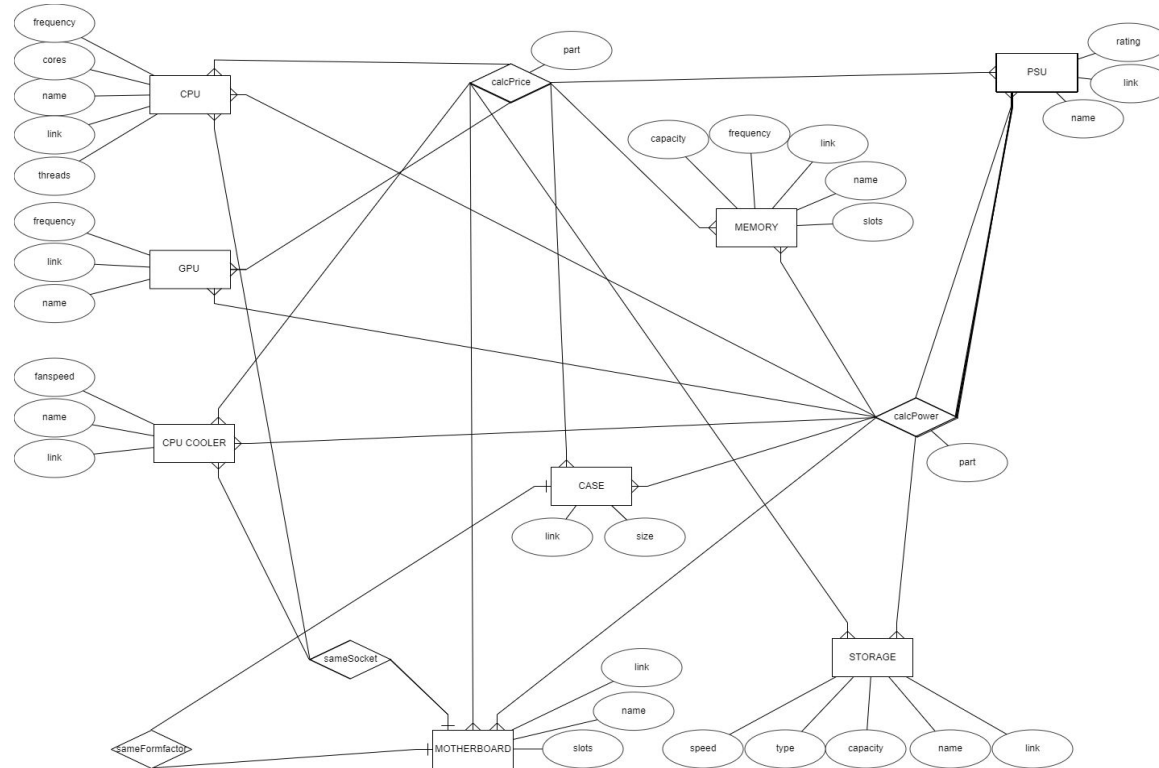
- Inputs budget, case form factor, cpu brand
- Outputs computer parts recommendations based on inputs



# Use Case Diagram



# E/R Diagram



# Relational Schema

CPU: name, cores, threads, frequency, socket, power, price, link

PSU: name, power, rating, price, link

GPU: name, frequency, power, price, link

CASE: name, formfactor, price, link

Motherboard: name, formfactor, socket, slots, power, price, link

Storage: name, capacity, speed, type, power, price, link

CPU Cooler: name, fanspeed, socket, power, price, link

MEMORY: name, capacity, frequency, slots, power, price, link



THANK YOU FOR  
YOUR TIME

