Application Programming Interface (API)

- Outward facing laterface that can be used by applications

- things that have APIs

- Libraries and frameworks

- Classes and their methods, functions, etc.

- Hardwere that is controllable by software

- Robote - how to access sensors and control works

- Web services - A service on the internet - Applications interest with the service vin a web API can be defined separately from the application behind it - There can be multiple implementations of the same API - An implementation can change behind the scenes without Changing the API, and applications using that implementation Ghand ust break

Wes Services

- Often one computer needs to communicate with another computer - Computer networks ofter general ways for computers to communitate

- Higher level probable (HTTP, SSH, FTP, etc.) are Smilt on top of

networks to anizely develop ways for applications to communicate

- HTTP (Hypertext Transfer Patrol)

- Defines how a client (often a web browser) can communiste with a server to fetch and submit context (often in the form of web pases)

form of web pases)

- A client initiates a request to a sover

- Port wostereds in your bowser and the bowser fetches data from Wooste's servers - Wes API - A term for an API designed on top of HTTP - Albur client pagames to fetch and submit data from securs - Many sites provide APIs so that apps can interest with them

- I SON (Jan Script Object Notation) - Text format flut represents Structured data using lists and key/value pairs - Used by many web APIs - Python has a built-in module which can convert a

JSDN stony to mested lists and dichmanies

```
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```