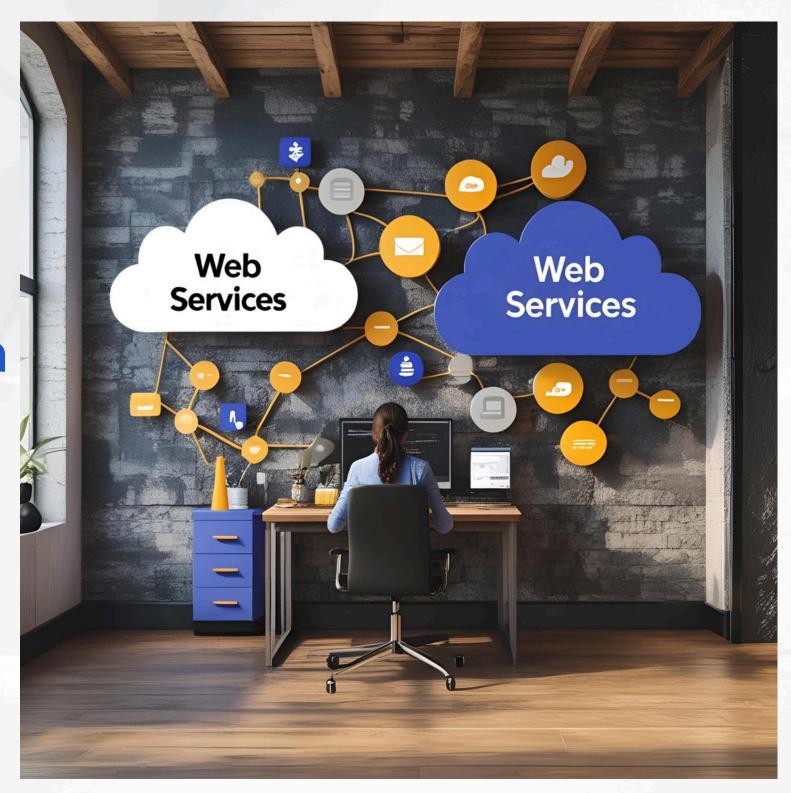
Introduction to Web Services

A Web Service is a method of communication between two devices over the internet. It allows one system to communicate with another.

Two types of Web Services

- SOAP (Simple Object Access Protocol)
- REST (Representational State Transfer)



SOAP vs RESTful web services

```
POST /UserService HTTP/1.1
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
 <soap:Body>
    <GetUserDetailsResponse xmlns="http://example.com/users">
      <User>
       <Id>123</Id>
       <Name>John Doe</Name>
       <Email>john@example.com/Email>
      </User>
    </GetUserDetailsResponse>
 </soap:Body>
</soap:Envelope>
```

```
POCT bits.//ani aramala cam/reana
{
    "id": 124,
    "name": "Jane Doe",
    "email": "jane@example.com"
}
```

@RestController, @RequestBody & @ResponseBody

```
@RestController
@RequestMapping("/api")
public class UserController {
    @GetMapping("/users/{id}")
    public ResponseEntity<User> getUserById(@PathVariable("id") Long id)
        User user = userService.getUserById(id);
        return ResponseEntity.ok(user);
    @PostMapping("/users")
    public ResponseEntity<User> createUser(@RequestBody User user) {
        User savedUser = userService.createUser(user);
        return ResponseEntity.status(HttpStatus.CREATED).body(savedUser);
```