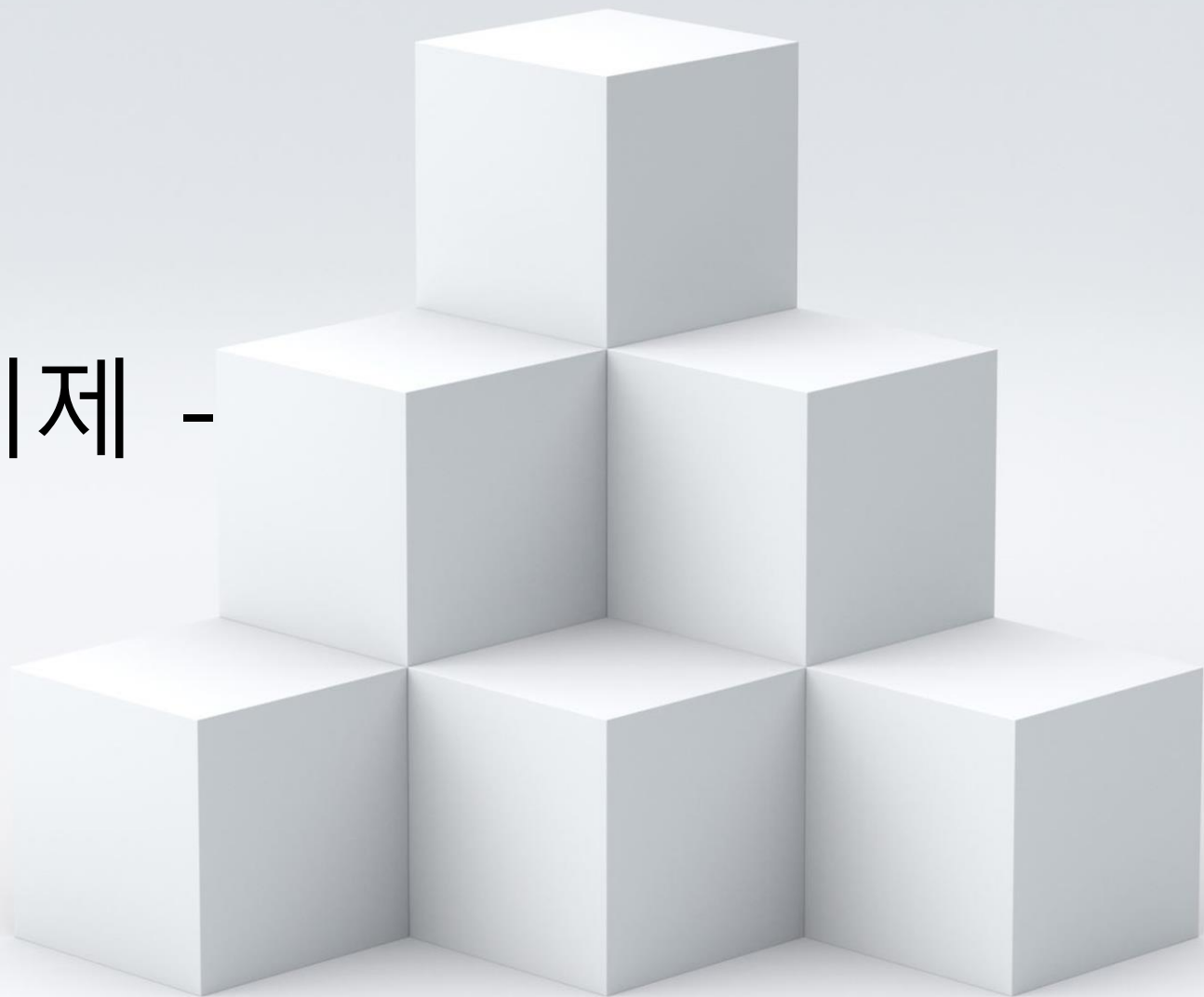


Software Engineering

- docker-compose 예제 -

Professor Han-gyoo Kim

2022



JSON (JavaScript Object Notation)

- Open standard file format and interchange format
- Human-readable text to store and transmit data objects consisting of key-value pairs and array data types
- Language-independent data format
- Derived from JavaScript, but many modern programming languages include code to generate and parse JSON format data

docker-compose.yml

version: '3.3'

services:

class-offering:

image: php:7.2-apache

volumes:

- ./classes:/var/www/html

ports:

- 5001:80

website:

image: php:7.2-apache

volumes:

- ./website:/var/www/html

ports:

- 5000:80

depends_on:

- class-offering

class-offering: index.php (in ./classes)

```
<?php
    $myclasses[] = "software engineering";
    $myclasses[] = "project";
    $myclasses[] = "web programming";

    $myJSON = json_encode($myclasses);

    echo $myJSON;
?>
```

Website: index.php (in ./website)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Classes Offered</title>
</head>
<body>
  <h1>Classes Offered by Prof. Han Kim</h1>
  <ul>
    <?php
      $json = file_get_contents('http://class-offering');
      $obj = json_decode($json);

      foreach ($obj as $class) {
        echo "<li>$class</li>";
      }
    ?>
  </ul>

</body>
</html>
```