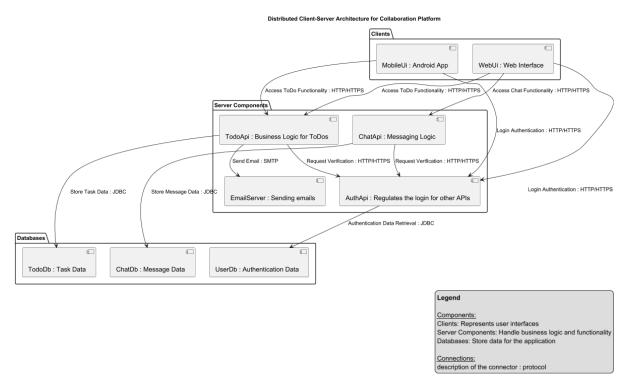
# PE2 Aufgabenblatt 01

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#### Aufgabe 1:



#### Aufgabe 2:

## <u>2.1</u>

a) SQL-Befehl, der die bereits existierende Tabelle todos erstellen würde:

```
USE `pe2-db-a1`;
CREATE TABLE IF NOT EXISTS todos (
    id INT PRIMARY KEY,
    title VARCHAR(255) NOT NULL,
    description VARCHAR(500)
);

INSERT IGNORE INTO todos (id, title, description) VALUES
(1, 'Dekorieren', 'Es ist nun endlich so weit! Mit dem 01. November wird es
Zeit, zügig die Weihnachtsdekorationen auszupacken.'),
(2, 'New todo', NULL),
(3, 'Weitere Todos für die TodoAPI! eintragen', NULL),
(4, 'Backen', 'Bald sollte ich Weihnachtsplaetzchen backen.'),
(13, 'Die Attribute eines Todo-Objekts für die TodoAPI definieren', NULL),
(42, 'Die Geschaeftslogik fuer die TodoAPI entwerfen', NULL);
```

### b) SQL-Befehl, der verwendet wurde, um die Zeile mit id = 1 zur Tabelle todos hinzuzufügen:

```
INSERT IGNORE INTO todos (id, title, description) VALUES
(1, 'Dekorieren', 'Es ist nun endlich so weit! Mit dem 01. November wird es
Zeit, zügig die Weihnachtsdekorationen auszupacken.');
```

c) SQL-Befehl:

```
USE `pe2-db-a1`;
SELECT description
FROM todos
WHERE description LIKE '%Weihnacht%';
```

#### <u>2.2</u>

#### Letter.java Link:

https://github.tik.uni-stuttgart.de/iste-pe2-2024/repo051/blob/main/docs/JavaClasses\_exc1/Letter.java

a)

The Solution is:

EntwickLUnGPrOgrAMMII

WordOfArrayIndex.java Link:

https://github.tik.uni-stuttgart.de/iste-pe2-2024/repo051/blob/main/docs/JavaClasses exc1/WordOfArrayIndex.java

b)

The Solution is:

Ids für V: 52, 78, 52, 78

lds für b: 9, 32, 58, 9, 32, 58,

Ids für t: 50, 76, 50, 76

IdsForLettersVTB.java Link:

https://github.tik.uni-stuttgart.de/iste-pe2-

2024/repo051/blob/main/docs/JavaClasses\_exc1/ldsForLettersVTB.java

c)

The Solution is:

Sum of all IDs: 4167

Mean of all IDs: 50

SumAndMeanOflds.java Link:

https://github.tik.uni-stuttgart.de/iste-pe2-

2024/repo051/blob/main/docs/JavaClasses\_exc1/SumAndMeanOflds.java

## **Aufgabe 3: HTTP und Rest**

## a) GET-Request senden

Request:

GET <a href="https://api.chucknorris.io/jokes/random?category=history">https://api.chucknorris.io/jokes/random?category=history</a>

```
Erhaltener Response Body:

{
    "categories": [
        "history"
    ],
    "created_at": "2020-01-05 13:42:19.576875",
    "icon_url": "https://api.chucknorris.io/img/avatar/chuck-norris.png",
    "id": "umwzezi7siitlteg3jiyiw",
    "updated_at": "2020-01-05 13:42:19.576875",
    "url": "https://api.chucknorris.io/jokes/umwzezi7siitlteg3jiyiw",
    "value": "Nagasaki never had a bomb dropped on it. Chuck Norris jumped out of a plane and punched the ground"
}
```

#### b) POST-Request senden

```
Response:
  "args": {},
  "data": {
   "key": "pe2ws23",
   "purpose": "This is a test."
 },
 "files": {},
 "form": {},
 "headers": {
   "host": "postman-echo.com",
   "x-request-start": "t=1730737634.277",
   "connection": "close",
   "content-length": "57",
   "x-forwarded-proto": "https",
   "x-forwarded-port": "443",
   "x-amzn-trace-id": "Root=1-6728f5e2-5a8b91fe66db666467c78a24",
   "content-type": "application/json",
   "user-agent": "PostmanRuntime/7.42.0",
   "accept": "*/*",
   "postman-token": "2d2d5983-a576-4a49-ac7d-aaf57db5809d",
   "accept-encoding": "gzip, deflate, br",
   "cookie": "sails.sid=s%3A6c2T_qKcrEpSkqNGzs_1y-
zE7iVgRyO6.I4mZT02QPjfDWVPt8tBkK%2FDW%2FNgqYBuOi%2F1WjQfS%2F%2Fc"
 },
  "json": {
   "key": "pe2ws23",
   "purpose": "This is a test."
 },
 "url": "https://postman-echo.com/post"
}
```

## c) REST API Design

Retrieve all dvds with filter by category, substring of the title and if its for adults or not:

**GET** /dvds?category={categoryString}&subTitle={subTitleString}&forAdults={boolean}

Create a single dvd:

POST /dvds

Retrieve a single dvd by its id:

GET /dvds/\$id

Update a single dvd by its id:

PUT /dvds/\$id

Delete a single dvd by its id and if wanted save a copy in the archive:

**DELETE** /dvds/\$id?keepInArchive={boolean}