



Progetto Reti di Calcolatori 2019/2020

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La nostra applicazione web BookShell permette, dopo essersi loggati con un account Google, o tramite diretta registrazione al sito, di ricercare libri accedendo al catalogo messo a disposizione dalla API di Google Books. Sulla stessa pagina di ricerca è presente la chat dove gli utenti possono comunicare e scambiarsi consigli e pareri sulle prossime letture da fare o semplicemente creare un punto di ritrovo tra bibliofili.

## Login

Or

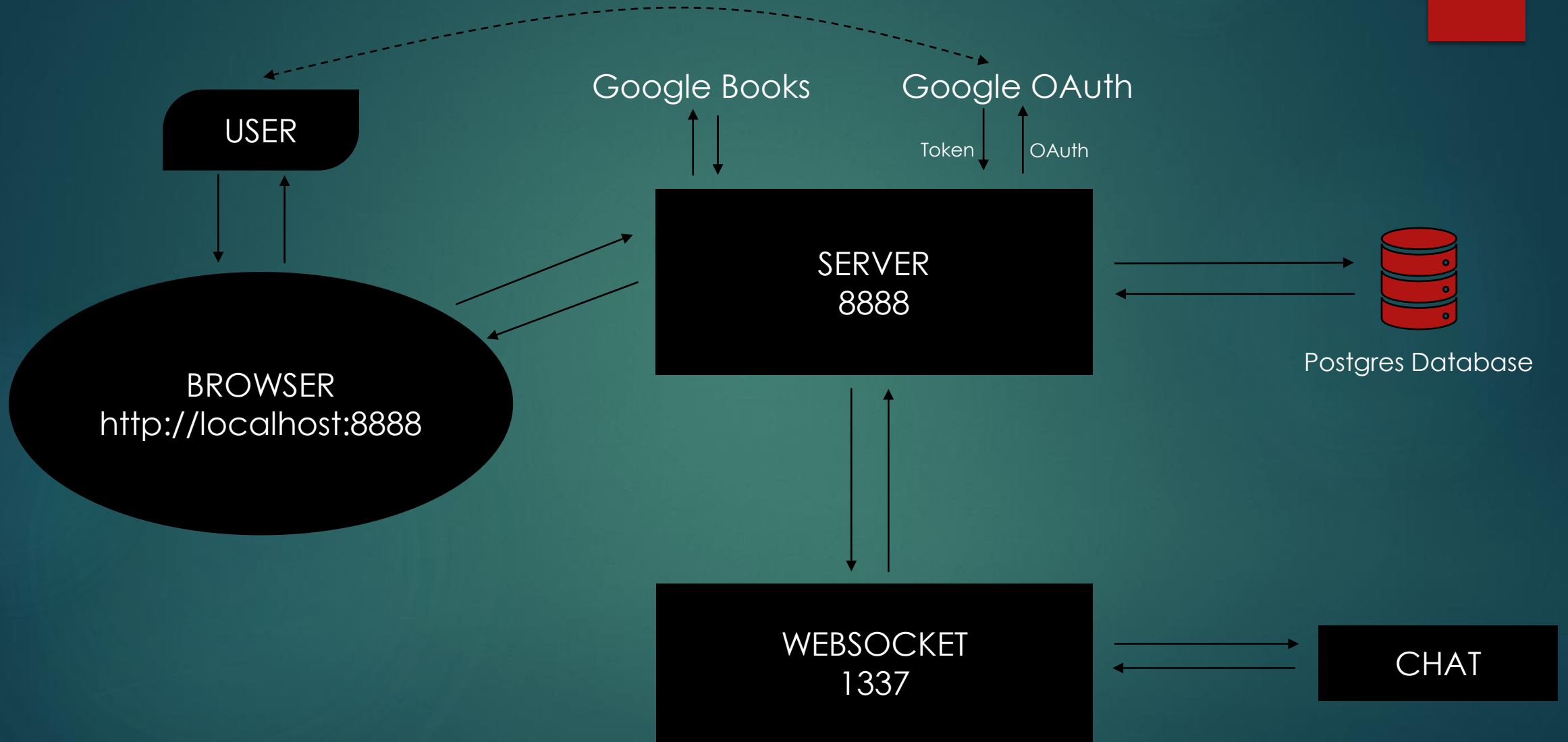
 Sign in with Google

## Intellectual Chat

Marco @ 15:49:

ALE:

## Search Book



# Tecnologie utilizzate

APIs Google :

- Google Books APIs
- Google OAuth 2.0 API

WebSocket  
Postgres DB

## RAPPRESENTAZIONE RISORSA BOOKS APIs

```
{
  "kind": "books#volume",
  "id": string,
  "etag": string,
  "selfLink": string,
  "volumeInfo": {
    "title": string,
    "subtitle": string,
    "authors": [
      string
    ],
    "publisher": string,
    "publishedDate": string,
    "description": string,
    "industryIdentifiers": [
      {
        "type": string,
        "identifier": string
      }
    ]
  }
}
```

```
"averageRating": double,
"ratingsCount": integer,
"contentVersion": string,
"imageLinks": {
  "smallThumbnail": string,
  "thumbnail": string,
  "small": string,
  "medium": string,
  "large": string,
  "extraLarge": string
},
"language": string,
"previewLink": string,
"infoLink": string,
"canonicalVolumeLink": string
},
"accessInfo": {
  "country": string,
  "viewability": string,
  "embeddable": boolean,
  "publicDomain": boolean,
  "textToSpeechPermission": string,
  "epub": {
    "isAvailable": boolean,
    "downloadLink": string,
    "acsTokenLink": string
  },
  "pdf": {
    "isAvailable": boolean,
    "downloadLink": string,
    "acsTokenLink": string
  },
}
```

# Esempio get

```
"/inSearch" : {
  "get" : {
    "tags" : [ "developers" ],
    "summary" : "search books",
    "description" : "By passing in the appropriate options, you can search for available books in the system\n",
    "produces" : [ "application/json" ],
    "parameters" : [ {
      "name" : "title",
      "in" : "query",
      "description" : "pass an optional search string for looking up title in searched books",
      "required" : false,
      "type" : "string"
    }, {
      "name" : "author",
      "in" : "query",
      "description" : "pass an optional search string for looking up author in searched books",
      "required" : false,
      "type" : "string"
    } ],
  }
```

```
"responses" : {
  "200" : {
    "description" : "search results matching criteria",
    "schema" : {
      "type" : "array",
      "items" : {
        "$ref" : "#/definitions/SearchItem"
      }
    }
  },
  "400" : {
    "description" : "bad input parameter"
  }
}}
```

200

search results matching criteria

Example Value | Model

```
[
  {
    "totalBooks": 40,
    "books": {
      "title": "Del possesso qual titolo di diritti ...",
      "link": "https://play.google.com/store/books/details?id=DnASAAAAAYAAJ&source=gsb_api",
      "img": "http://books.google.com/books/content?id=DnASAAAAAYAAJ&printsec=frontcover&img=1&zoom=1&edge=curl&source=gsb_api"
    }
  }
]
```

400

bad input parameter



# Riferimenti esterni

GOOGLE BOOKS APIs

<https://developers.google.com/books/docs/v1/using>

<https://developers.google.com/books/docs/v1/reference/volumes>

GOOGLE SIGN-IN API

<https://developers.google.com/identity/protocols/oauth2/web-server>

POSTGRES DATABASE

<https://node-postgres.com/>

<https://www.pgadmin.org/docs/>

WEBSOCKET

<https://www.npmjs.com/package/websocket>