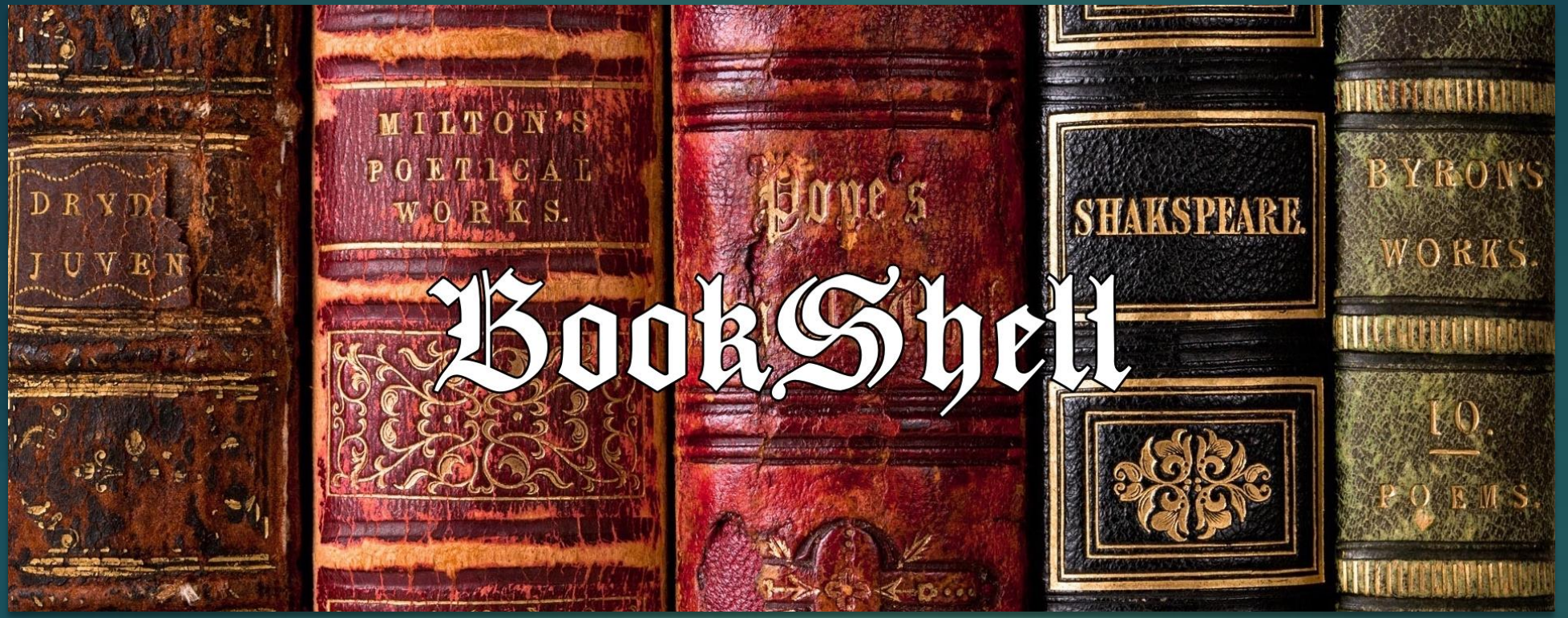
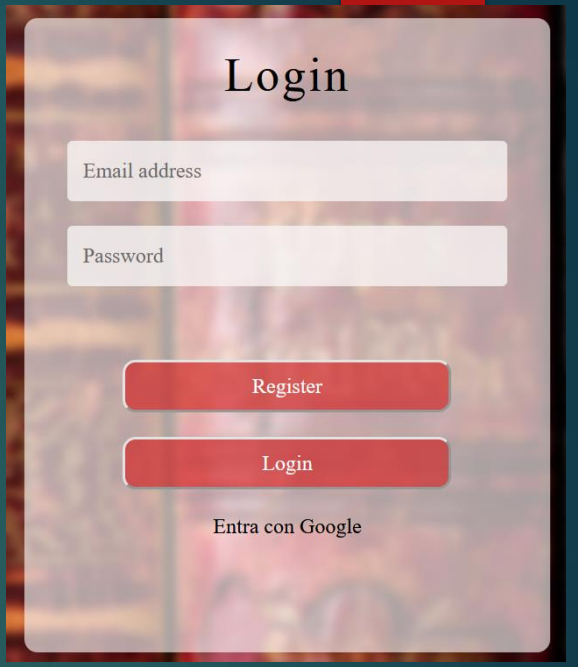


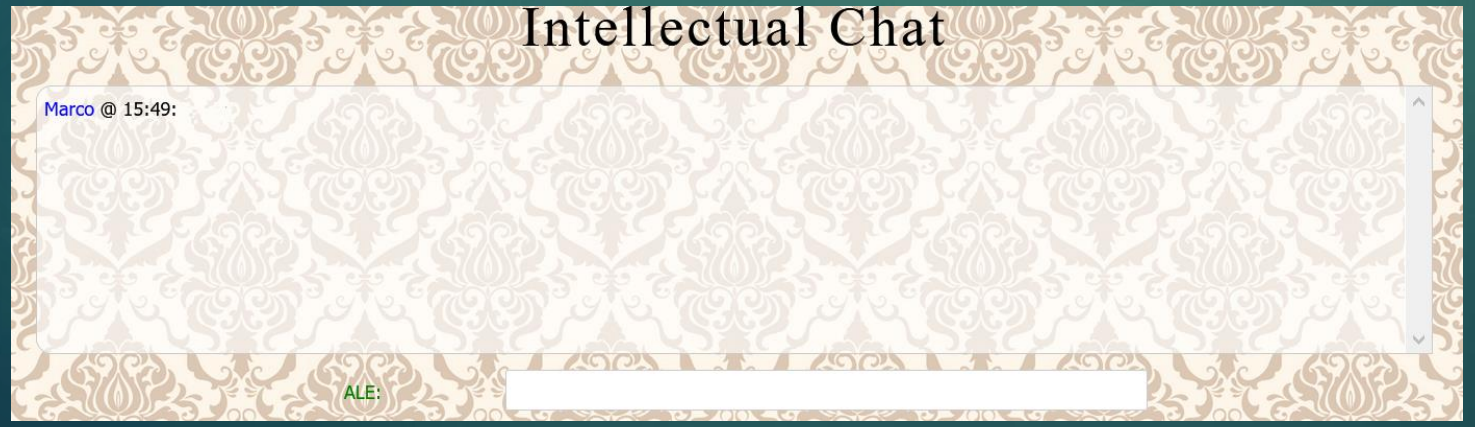
BookShell

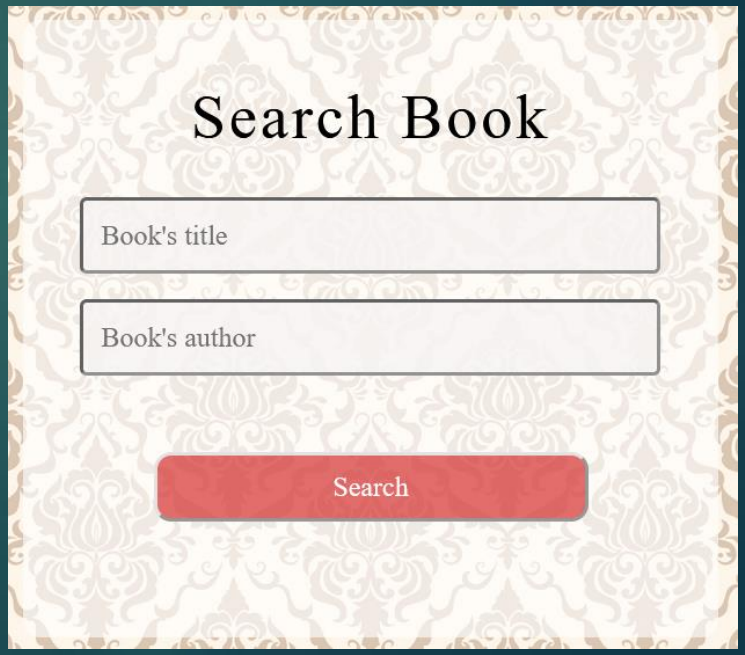
Progetto Reti di Calcolatori 2019/2020

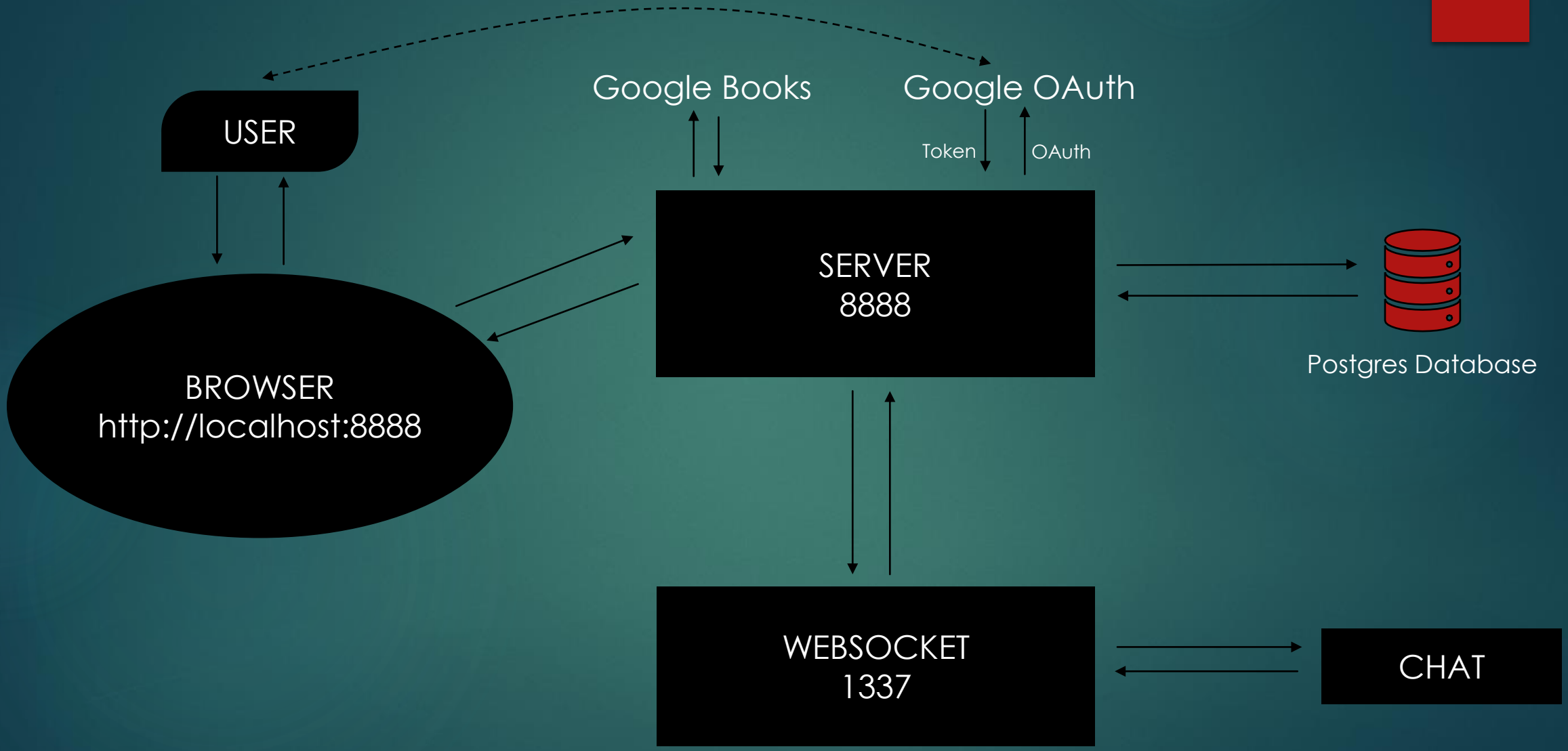
Christian Ramilo, Federico Montanari, Alessandro Garbetta

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.








USER
Google Books
Google OAuth
Token
OAuth
SERVER
8888
BROWSER
http://localhost:8888
Postgres Database
WEBSOCKET
1337
CHAT

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 appropriat
e options, you can search for available books in the
system\n",
        "produces" : [ "application/json" ],
        "parameters" : [ {
          "name" : "title",
          "in" : "query",
          "description" : "pass an optional search st
ring 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 bo
    oks",
          "required" : false,
          "type" : "string"
        } ],
```

```
"responses" : {
  "200" : {
    "description" : "search results matchi
        ng 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=DnASAAAAYAAJ&source=gbs_api",
      "img": "http://books.google.com/books/content?
id=DnASAAAAYAAJ&printsec=frontcover&img=1&zoom=1&edge=curl&source=gbs_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