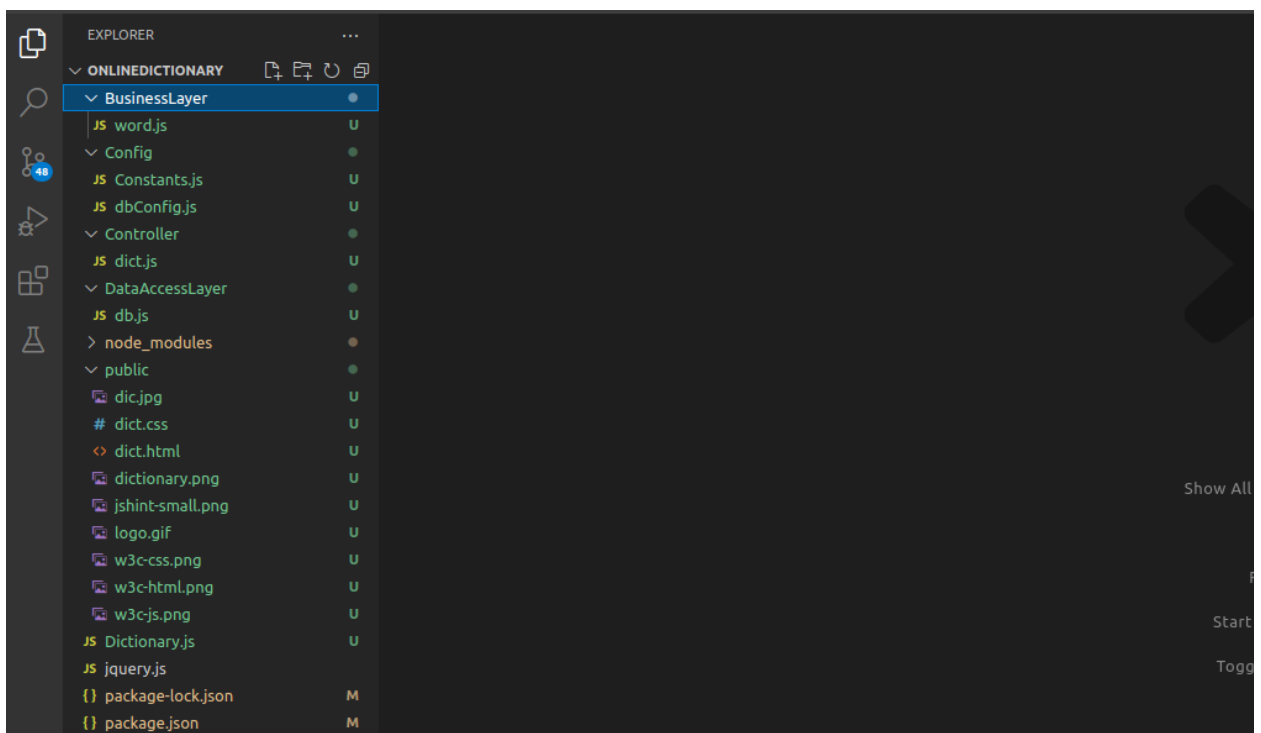
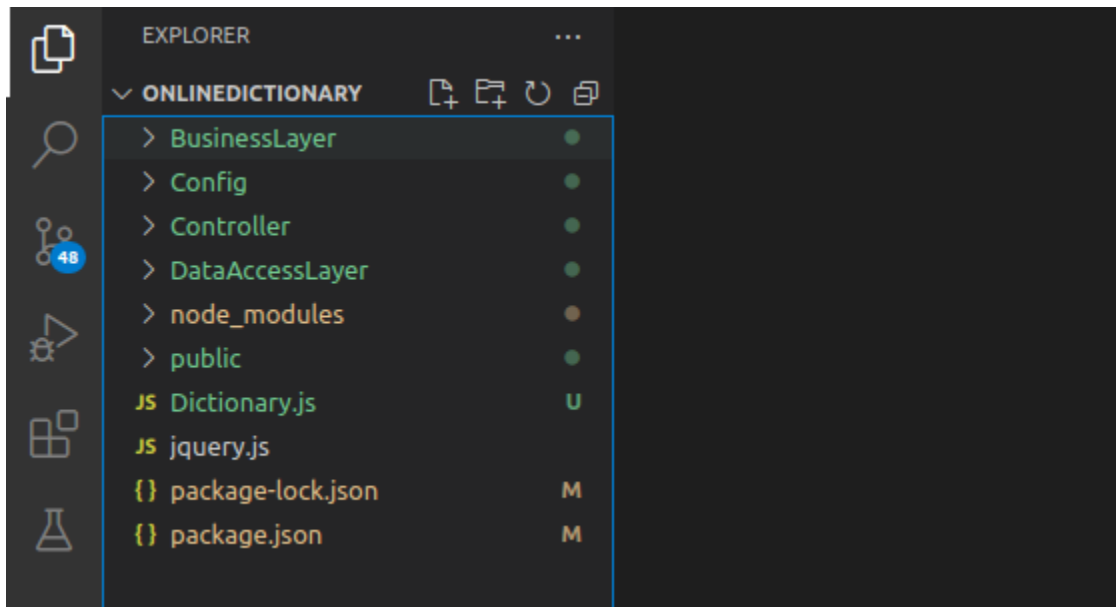


Project Structure



Code Snippets

Dictionary.js

```
1  const express = require('express');
2
3  const Entry = require('./BusinessLayer/word');
4  const path = require('path');
5  const constants = require('./Config/Constants');
6
7  const app = express();
8
9  app.use(express.static('public'));
10 app.use(express.static(__dirname));
11
12 app.get('/', (req, res) => {
13   res.status(200).sendFile(path.join(__dirname + '/public/dict.html'));
14 });
15
16 app.get('/entry/:word?', (req, res, next) => {
17   let word = req.params.word;
18   if (word) {
19     Entry.findByWord(word, (err, data) => {
20       if (err) {
21         res.status(404).send(err);
22       }
23       else {
24         res.send(data);
25       }
26     });
27   }
28   else{
29     res.send([]);
30     next();
31   }
32 });
33
34 app.listen(constants.PORT, () => {
35   console.log(`Server is listening on port ${constants.PORT}`);
36 });
37
```

```

1 <!DOCTYPE html>
2 <html lang="en-US">
3   <head>
4     <meta charset="UTF-8">
5
6     <link rel="stylesheet" type="text/css" href="dict.css">
7     <title>Online English Dictionary</title>
8   </head>
9   <body>
10    <div class="header">
11      
12    </div>
13    <div id="wordinput">
14      <label for="txtword">Term:</label>
15      <input type="text" name="txtword" id="txtword" placeholder="word" />
16      <button id="btnLookup">Lookup</button>
17    </div>
18
19    <ol id="definitions"></ol>
20
21    <script src="../../jquery.js" type="text/javascript"></script>
22    <script src="../../Controller/dict.js" type="text/javascript"></script>
23  </body>
24 </html>
25

```

```

1 const mysql = require('mysql');
2 const dbConfig = require("../Config/dbConfig");
3
4 const connection = mysql.createConnection({
5   host:dbConfig.HOST,
6   user: dbConfig.USER,
7   password: dbConfig.PASSWORD,
8   database: dbConfig.DB
9 });
10
11 connection.connect(error => {
12   if (error) throw error;
13   console.log("Successfully connected to the database.");
14 });
15
16 module.exports = connection;

```

```

1 const sql = require("../DataAccessLayer/db");
2
3 const Entry = function(entry){
4   this.word = entry.word;
5   this.wordtype = entry.wordtype;
6   this.definition = entry.definition;
7 };
8
9 Entry.findByWord = (word, result) => {
10   sql.query(`SELECT * FROM entries WHERE word = '${word}'`, (err, res) => {
11     if(err){
12       console.error(err);
13       result(err, null);
14       return;
15     }
16     result(null, res);
17   });
18 };
19
20 module.exports = Entry;

```

Controller > JS dict.js > ready() callback > clickHandler > success

```
1  "use strict";
2  $(document).ready(function(){
3
4      let clickHandler = function(){
5          let word = $("#txtword").val();
6          $.ajax({
7              url: 'http://localhost:8081/entry/' + word,
8              type: 'GET',
9              success: (words) => {
10                 $('#definitions').html("");
11
12                 if(words.length < 1){
13                     $('#definitions').append("<p> no definition found for the specified term - or no term specified </p>");
14                     return false;
15                 }
16
17                 for(let i=0; i< words.length; i++) {
18                     $('#definitions').append(`
19                         <li>
20                             wordtype: ${words[i]["wordtype"]} <br>
21                             definition: ${words[i]["definition"]}
22                         </li>
23                         <hr>`
24                     );
25                 }
26             },
27             error: function(error){
28                 $('#definitions').append(error);
29             },
30         });
31     });
32 }
33
34 $("#btnLookup").on({
35     'click':clickHandler,
36     'keypress': (e) => {
37         if(e.which == 13) {
38             clickHandler()
39         }
40     }
41 });
42
43
```

Config > JS Constants.js > ...

```
1  const port = 8081;
2  const url = `http://localhost:${port}/entry/`;
3  exports.PORT = port;
4  exports.URL = url;
```

JS dbConfig.js U

Config > JS dbConfig.js > <unknown> > PASSWORD

```
1  module.exports = {
2      HOST: "localhost",
3      USER: "root",
4      PASSWORD: "*****",
5      DB: "entries"
6  };
```



Term:

[Lookup](#)



Term:

[Lookup](#)

-
1. wordtype: n.
definition : Example; pattern.
 2. wordtype: n.
definition : A part of anything presented for inspection, or shown as evidence of the quality of the whole; a specimen; as, goods are often purchased by samples.
 3. wordtype: v. t.
definition : To make or show something similar to; to match.
 4. wordtype: v. t.
definition : To take or to test a sample or samples of; as, to sample sugar, teas, wools, cloths.
-



Term:

[Lookup](#)

-
1. wordtype: a.
definition : Endowed with the faculty of understanding or reason; as, man is an intelligent being.
 2. wordtype: a.
definition : Possessed of intelligence, education, or judgment; knowing; sensible; skilled; marked by intelligence; as, an intelligent young man; an intelligent architect; an intelligent answer.
 3. wordtype: a.
definition : Gognizant; aware; communicate.
-



Term:

[Lookup](#)

no definition found for the specified term - or no term specified