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Screenshots

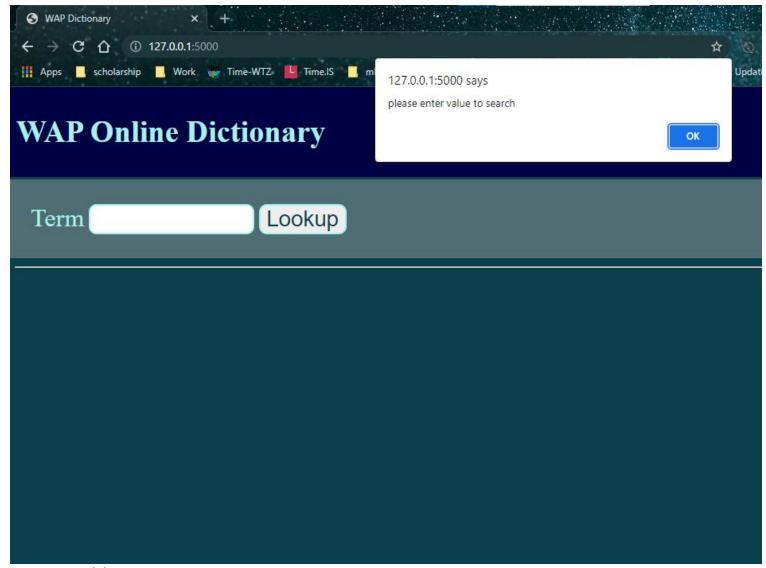


Figure 1: Empty input validation

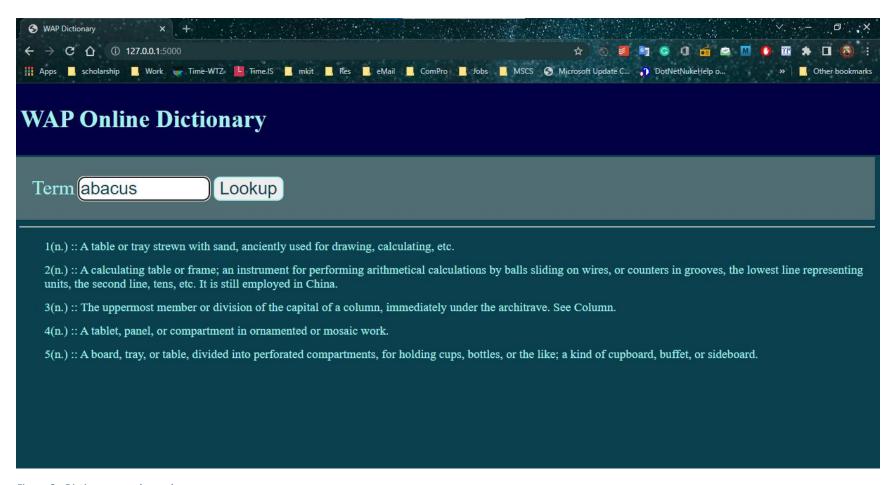


Figure 2: Dictionary word search

```
EXPLORER
                                      PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
OPEN EDITORS
                                      PS D:\MIU MSCS\My courses\Nov - 2011 -WAP\Workspace\dictionary> nodemon .\Dictionary.js
 X (B) package.json
                                      [nodemon] to restart at any time, enter `rs`
DICTIONARY
                                      [nodemon] watching path(s): *.*
> node_modules
                                      [nodemon] watching extensions: js,mjs,json

∃ dict.css

   dict.html
                                      Server is listening on port 5000
   us dict.js
                                      Successfully connected to the database.
   Js Dictionary.js
                                      found word: [
                                       RowDataPacket {
   Js jQuery.js
                                         word: 'Abacus',
   package-lock.json
                                         wordtype: 'n.',
   package.json
                                          definition: 'A table or tray strewn with sand, anciently used for\n' +
   us word.js
                                        RowDataPacket {
                                         word: 'Abacus',
                                         wordtype: 'n.',
                                          definition: 'A calculating table or frame; an instrument for performing\n' +
                                           ' etc. It is still employed in China.'
                                        },
                                        RowDataPacket {
                                         word: 'Abacus',
                                         wordtype: 'n.',
                                          definition: 'The uppermost member or division of the capital of a\n' +
                                        RowDataPacket {
                                         word: 'Abacus',
                                         wordtype: 'n.',
                                          definition: 'A tablet, panel, or compartment in ornamented or mosaic\n work.'
                                        },
                                        RowDataPacket {
                                         word: 'Abacus',
                                         wordtype: 'n.',
                                          definition: 'A board, tray, or table, divided into perforated\n' +
```

Figure 3:Sample Terminal console output

Source codes

```
X File Edit Selection View Go Run Terminal Help
       EXPLORER
                                         dict.html
                                                         us dict.js
                                                                         Js Dictionary.js X Js word.js
                                                                                                           Js Dictionary.js > ♥ app.post('/search') callback

∨ OPEN EDITORS

                                                 const express = require('express');
          dict.html
          us dict.js
                                                 const app = express();
        X Js Dictionary.js
                                                 app.use(express.urlencoded({
          us word.js
                                                     extended: false
          ∨ DICTIONARY
       > node_modules
         dict.css
                                                app.get('/', (rq, res) => {
         dict.html
                                                     res.sendFile(__dirname + '\\dict.html');
         Js dict.js
         Js Dictionary.js
         Js jQuery.js
                                                 let searchKey = req.body.key;
         package-lock.json
                                                     var keyDefinitions = require("./word.js");
         package.json
                                                     keyDefinitions.search(searchKey, res);
         us word.js
                                                 let port = 5000;
                                                 app.listen(port, () => console.log(`Server is listening on port ${port} `));
```

Figure 4: Dictionary.js

```
Js Dictionary.js
■ dict.html × Js dict.js
                                                us word.js
                                                                dict.css
■ dict.html > 分 html
       <!DOCTYPE html>
      <html lang="en">
           <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>WAP Dictionary</title>
          <link href="dict.css" rel='stylesheet' />
          <script src="jQuery.js"></script>
          <script src="dict.js"></script>
      </head>
 13
           <div class="header">
               <h1>WAP Online Dictionary</h1>
           <div class="searchbar">
               <label>Term</label>
               <input type="text" id='term' name='term' required>
               <input type="submit" id="search" value="Lookup">
           </div>
           <hr>>
           <div class="result">
              </div>
      </body>
       </html>
```

Figure 5: dict.html

```
dict.html
               Js dict.js
                           X Js Dictionary.js
                                                 us word.js
                                                                 ∃ dict.css
us dict.js > ☆ error
      Complexity is 4 Everything is cool!
      $(function () {
          $('#search').click(function (e) {
               let term = $('#term').val();
               if (term == '') {
                   alert('please enter value to search');
                   return;
               url = '/search';
               $.post(url, {
                       'key': term
                   .done(success)
                   .fail(error);
      function success(data) {
           console.log(data);
          console.log(data.length);
          $('.result ol').empty();
          for (let index = 0; index < data.length; index++) {</pre>
               $('.result ol').append('(' + data[index].wordtype + ') :: ' + data[index].definition + ');
      function error(error) {
           console.log(error);
 28
```

Figure 6: dict.js

```
us dict.js
                                Js Dictionary.js
                                                   word.js
                                                              X 3 dict.css
s word.is > [❷] <unknown> > 分 search > 分 connection.connect() callback > 分 connection.query() callback
       const express = require('express');
      const app = express();
      module.exports = {
           Complexity is 10 It's time to do something...
           search: function (searchKey, res) {
               const mysql = require('mysql');
               const dbConfig = { HOST: "localhost", USER: "root", PASSWORD: "miusql", DB: "entries" };
               const connection = mysql.createConnection({
                   host: dbConfig.HOST,
                   user: dbConfig.USER,
                   password: dbConfig.PASSWORD,
                   database: dbConfig.DB
               Complexity is 9 It's time to do something..
               connection.connect(error => {
                   if (error) throw error;
                   console.log("Successfully connected to the database.");
                   Complexity is 6 It's time to do something...
                   connection.query(`select * from entries where word='${searchKey}' `, (error, recordset) => {
                       if (error) {
                            console.log('query error ' + error);
                            return res.send(null);;
                       if (recordset.length) {
 26
                            console.log("found word: ", recordset);
                            return res.send(recordset);
```

Figure 7: word.js

```
₱ dict.css dict.css\ቁ.searchbar input

      color: ■#a7f4ee;
      background-color: ■#0b404e;
      font-size: larger;
      color: #a7f4ee;
      background-color: □#020044;
      padding: 10px 10px;
      margin: -10px -10px 3px -8px;
      padding: 30px;
      margin: auto;
      margin-left: -10px;
      font-size: larger;
      background-color: ■#506d74;
   .searchbar label {
      font-size: xx-large;
   .searchbar input {
      height: auto;
      font-size: larger;
      color: ■#0b404e;
      border: ■#a7f4ee solid 2px;
      border-radius: 10px;
      list-style-type: none;
      display: block;
      padding-bottom: 15px;
      counter-increment: item
```

Figure 8:CSS [disct.css]

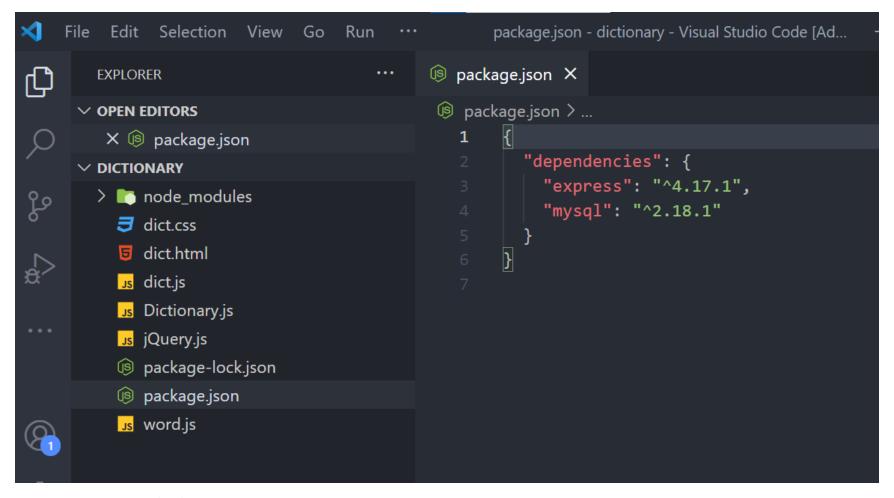


Figure 9:Project structure and package.json