



**Ex: Basic Word Backend API using Express**

This is what is being called when the Lambda function is triggered.

src &gt; TS index.ts &gt; app.get("/word") callback &gt; word

```

1  import express, { Request, Response } from 'express'
2  import cors from 'cors';
3  import serverless from 'serverless-http';
4  import {pickRandomWord, checkWord} from "./words";
5
6  const app = express()
7  app.use(express.json()); // for parsing application/json
8  app.use(cors()); // adds cors headers
9
10 // Gets a word form the daily wordle set
11 app.get("/word", (req : Request, res : Response) => {
12     const word = pickRandomWord()
13     res.send({
14         word : word
15     });
16 });
17
18 // Checks if a word is correct
19 app.post('/word', (req : Request, res : Response) => {
20     const body = req.body;
21     if (body === undefined){
22         res.status(401).send({
23             anwser : "Invalid body"
24         });
25     }
26     const word = body.word;
27     if(word === undefined || word.length !== 5){
28         res.status(401).send({
29             anwser : "Invalid word"
30         });
31     }
32     res.send({
33         anwser : checkWord(word)
34     });
35 }
36 )
37
38 export const handler = serverless(app)

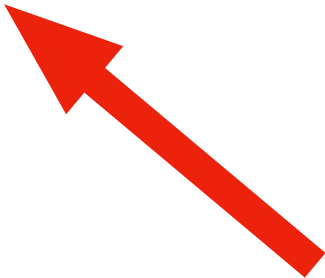
```

src &gt; TS words.ts &gt; checkWord

```

290     zedid , zesty , zonal ]
291
292 // Picks a random word from the list based on Today
293 export function pickRandomWord() : string{
294     // Applies a hashing function for the current day to get a word
295     const now = new Date(Date.now()); // Uses UTC time
296     const day = now.getDate();
297     const month = now.getMonth();
298     const year = now.getFullYear();
299     // Djb2 hash function
300     let hash = 5381
301     hash = hash * 33 + day;
302     hash = hash * 33 + month;
303     hash = hash * 33 + year;
304     return words[hash % words.length];
305 }
306
307 // Checks the word against the word of the day
308 export function checkWord(word : string){
309     const todayWord = pickRandomWord();
310     if (words.includes(word) === false) { // Is it a valid word?
311         return "Not a word";
312     }
313     return word.split("").map((letter, index) => {
314         if(letter === todayWord[index]){
315             return "Correct"
316         }
317         else if (todayWord.includes(letter)){
318             return "Misplaced"
319         }
320         else{
321             return "Not in word"
322         }
323     })
324 }

```



# Ex : Basic Wordle Backend API using Express

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```
TS words.ts •
src > TS words.ts > checkWord
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# Compiling & Project Structure