Outline of Demo

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Outline of Demo

1. Write the code.

2. Compile to JS (if using TS).

3. Zip or Dockerize your project.

4. Create a new Lambda function.

5. Link or upload the project.

6. Connect with a listener and response.

Ex : Basic Wordle Backend API using Express

```ts
// index.ts
// src > TS index.ts > app.get('*/word') callback > [∅] 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)
```

```ts
// words.ts
// src > TS words.ts > ⊕ checkWord
290         "zebra", "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  }
```