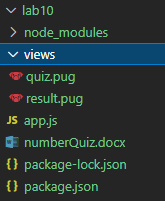
**The Number Quiz**

// Program Structure



// package.json

{

  "name": "lab10",

  "version": "1.0.0",

  "description": "The Number Quiz Lab",

  "main": "app.js",

  "scripts": {

    "start": "nodemon ./app.js",

    "test": "echo \"Error: no test specified\" && exit 1"

  },

  "author": "Berhanu",

  "license": "ISC",

  "dependencies": {

    "express": "^4.17.1",

    "pug": "^3.0.2"

  }

}

// views/quiz.pug

doctype html

head

  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 The Number Quiz

  style.

    body {

    font-family: Arial, Helvetica, sans-serif;

    font-size: 18px;

    }

    .container {

    width: 400px;

    border: 1px blue solid;

    margin: auto;

    padding: 20px;

    margin-top: 30px;

    }

    button {

    height: 30px;

    font-size: 18px;

    }

    h1 {

    text-align: center;

    }

h1 The Number Quiz

.container

  p Your current score is #{score}.

  p Guess the next number in the sequence.

  p #{question}

  div

    form(action='http://localhost:3000/quiz' method='post')

      label(for='answer') Your Answer:

      input#answer(type='text' name='answer' size='6')

      br

      br

      label(hidden name='quizNum') #{quizNum}

      br

      label(hidden name='score') #{score}

      div

        button(type='submit') Submit

// views/result.pug

doctype html

head

  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 Your Score

  style.

    body {

    font-family: Arial, Helvetica, sans-serif;

    font-size: 18px;

    }

    .container {

    width: 600px;

    border: 1px blue solid;

    margin: auto;

    padding: 0 10px;

    margin-top: 40px;

    }

.container

  h1 The Number Quiz

  p Your current score is #{score}.

  p You have completed the number quiz, with a score of #{score} out of #{numOfQuestions}.

// app.js

const express = require("express");

const path = require("path");

const { render } = require("pug");

const port = process.env.PORT || 3000;

let quizNum = 0;

let score;

let questions = [

  "3, 1, 4, 1, 5",

  "1, 1, 2, 3, 5",

  "1, 4, 9, 16, 25",

  "2, 3, 5, 7, 11",

  "1, 2, 4, 8, 16",

];

let answers = [9, 8, 36, 13, 32];

let i;

const app = express();

app.use(express.json());

app.use(express.urlencoded({ extended: true }));

app.set("view engine", "pug");

app.set("views", path.join(\_\_dirname, "views"));

app.get("/", (req, res) => {

  i = 0;

  score = 0;

  quizNum++;

  res.render("quiz", {

    question: questions[0],

    score,

    quizNum,

  });

});

app.post("/quiz", (req, res) => {

  while (i < questions.length) {

    if (parseInt(req.body.answer) === answers[i]) {

      score++;

    }

    i++;

    break;

  }

  if (i === questions.length) {

    return res.render("result", {

      score,

      numOfQuestions: questions.length,

    });

  }

  res.render("quiz", {

    score: score,

    quizNum: quizNum,

    question: questions[i],

  });

});

app.listen(port, () => {

  console.log(`Web server listening on port ${port} ...`);

});

// Output

