Csci 4131
HW 5, Adding an entry to Calendar/Schedule

Exam 1 Review

Intro to Relational Databases, SQL

Lecture 19, November 7th

Fall 2018

Dr. Dan Challou

Logistics

- Homework 5 Due This Friday 11/9 at 2pm.
  - **Late Submissions, with penalty until Sat 11/10 at 2 am (morning)**
- Finally – the course schedule is about to be updated. Be sure to review it!!!!
- HW 6 out Friday / Sat Morning – Get Going!!!!

Upcoming Reading and Tutorials (For HW 6 and 7): Relational Databases, SQL, MySQL, and Express

- **Relations Databases /SQL / MYSQL**
  - Your textbook (Sebesta) – Chapter 13
  - https://www.w3schools.com/sql/
  - https://www.w3schools.com/sql/sql_ref_mysql.asp
  - https://www.w3schools.com/nodejs/nodejs_mysql.asp

- Express – framework for developing applications in Node.js
  - https://www.tutorialspoint.com/nodejs/nodejs_express_framework.htm
  - https://expressjs.com/
    - See the menu items – Getting Started, Guide, API Reference, Advanced Topics, Resources.

- PHP and MYSQL: SQL, MySQL Chapter 17 pp.542-565; Chapter 18

- Older:
  - Node.js
    - https://www.w3schools.com/nodejs/default.asp
    - https://www.tutorialspoint.com/nodejs/
    - https://nodejs.org/en/docs/guides

  - AJAX
    - Sebesta – Chapter 10
    - https://www.w3schools.com/xml/ajax_intro.asp

Express and Node.js training videos also available on Lynda

- You can access Lynda via the following link:
    http://lynda.umn.edu

Use your x.500 id and password to sign in.

The following videos are most helpful:

- 1. Node.js Essential Training (6h 22m - Detailed Node.js video)

- 2. Building a Website with Node.js and Express.js (3h 16m - Focuses on Express.js and Node.js)

- 3. Learning Node.js (1h 57m)

Last Lecture

1. HW 5 – architecture

2. HW 5 - node.js and using AJAX to get JSON string with calendar entries and use it in the Calendar Web page to render the Calendar

3. Ajax revisited

Questions?

Today

- HW 5 Revisited – Getting the info from the form in Node.js, adding it to the JSON file, and redirecting to the Calendar / Schedule page

- Exam 1 Review

- Intro to Relational Databases, SQL, and MySQL

HW 5 revisited: Part 2 – Adding a new calendar / schedule item

* Add route to createServer: '/postCalendarEntry'

Get all the post data sent when the form is addCalendar.html is submitted
       postcontent = ''
       req.on('data', function(data) {postcontent += data;});
       req.on('end',function(){addCalendarItem(req,res,postcontent);});

addCalendar item outline:
       //parse the post content and extract eventName,location, and Daytime
       var postInfo = qs.parse(postcontent); //
       var eName = postInfo.eventName;
       var loc = postInfo.location;
       var dateTime = postInfo.date;
       // continued on next slide

Adding an item to the calendar (outline)

- Create a new json object with the eName, loc, and dateTime

- Read in the json file:

    fs.readfile('calendar.json', function (err,content){ if (err) throw err;})

    JSON parse it into an array of objects

    Add the new json object to the array of objects (append, push...)

    JSON.stringify the updated array of objects

    fs.writefile('calendar.json', the newly stringifed json)

    res.writeHead(302,{'Location':'calendar.html'}); //redirect

    res.end();

Exam 1 Procedure for Perceived Issues

- We will not start accepting requests for regrades until the end of Class on Wednesday 11/7
- Review your test
- Run your answer
- If you think you have an issue:
  - **Do not change or write anything on your test**. We have scanned them. If you change something, request a regrade, and we note it, you have cheated and will get a ZERO on the exam
  - On a single piece of paper , write down your issue(s)
    - Feelings are good in general, but not objective and thus not considered when regrading
    - We will only grade based on our interpretation of what you have written or drawn on your test.
- Hand in the paper along with your test to any TA or Dr. Dan

Exam 1 Information Continued

- The window for Issues requests opens Wednesday 11/7 after class and closes Wednesday 11/14 after class

Exam 1 Review

For Monday, at a minimum

- Do the tutorials point tutorial on express.js
- Read Chapter 13 in