CookieHour

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CSC302

Learning Goals of Our Project

- Use React in a side project
    - Learn how to use Node
- Learn how to practice TDD with MERN Stack
    - Learn how to use Mongodb as a database

Features We Wanted to get Done

Instructor

- Sync/Export intervals and meetings to personal electronic calendar(s) - **P0**
- Create office hours interval - **P0**
- Create new class - **P0**
- Manage meetings in intervals - **P0**:
  - Reschedule meetings to another interval
  - Cancel/Delete meetings
  - Move meeting earlier or later within the interval
- Instructor Manage Comments (Comments associated with meeting, shared with student) - **P1**:
  - Create comment
  - Edit comment
  - Delete comment
  - Find comment
- Delete interval with no meetings - **P1**
- Instructor Manage notes (Notes private to instructor) - **P2**:
  - Create note about student meeting
  - Find a note made about a student
  - Find a comment made for a student
  - Delete a note
  - Edit a note
- Generate persistent link to share meetings and/or intervals (eg in a quercus announcement or email) - **P2**
- Instructor notify system that meetings are running late - **P2**
- Manage preferences - **P3**

Student

- Choose meeting slot - **P0**
- Cancel meeting slot - **P0**
- Edit meeting slot - **P0**
- Student Manage Comments **P1**
  - Create comment
  - Delete, Edit comments
  - Find comments
- Including in advance! (Propose agenda or ask questions) **P1**
- Efficiently Inform instructor when running late for meeting. System should adapt - **P3**
- Sync/Export meetings to personal electronic calendar(s) - **P3**

Features We Actually Completed

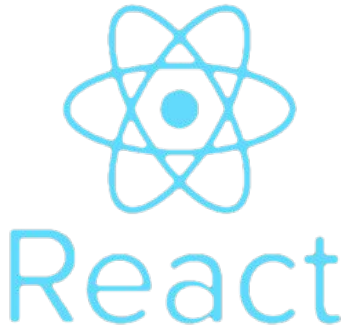
Instructor

- ✅ Sync/Export intervals and meetings to personal electronic calendar(s) - **P0**
- ✅ Create office hours interval - **P0**
- ✅ Create new class - **P0**
- ✅ Manage meetings in intervals - **P0**:
  - Reschedule meetings to another interval
  - Cancel/Delete meetings
  - Move meeting earlier or later within the interval
- ✅ Instructor Manage Comments (Comments associated with meeting, shared with student) - **P1**:
  - Create comment
  - Edit comment
  - Delete comment
  - ❌ Find comment
- ✅ Delete interval with no meetings - **P1**
- ✅ Instructor Manage notes (Notes private to instructor) - **P2**:
  - Create note about student meeting
  - ❌ Find a note made about a student
  - ❌ Find a comment made for a student
  - Delete a note
  - Edit a note
- ❌ Generate persistent link to share meetings and/or intervals (eg in a quercus announcement or email) - **P2**
- ❌ Instructor notify system that meetings are running late - **P2**
- ❌ Manage preferences - **P3**

Student

- ✅ Choose meeting slot - **P0**
- ✅ Cancel meeting slot - **P0**
- ✅ Edit meeting slot - **P0**
- ✅ Student Manage Comments **P1**
  - Create comment
  - Delete, Edit comments
  - ❌ Find comments
- ✅ Including in advance! (Propose agenda or ask questions) **P1**
- ❌ Efficiently Inform instructor when running late for meeting. System should adapt - **P3**
- ✅ Sync/Export meetings to personal electronic calendar(s) - **P3**

Technology Stack



Testing Stack

Testing Example- Backend

```
describe('add meeting with already booked slot', () => {
  it('it should throw "chosen time is already taken" error', (done) => {
    let meeting = {
      "studentEmail": "misan@email.com",
      "teacherEmail": "matt@email.com",
      "date": "19/03/2019",
      "startTime": "13:30",
      "agenda": "confused about A1",
      "courseName": "CSC302"
    };
    let response = {err: "chosen meeting time is already taken"};
    chai.request(server)
    .post('/meeting/create/student')
    .send(meeting)
    .end((err, res) => {
      res.should.have.status(400);
      res.body.should.be.eql(response);
      done();
    });
  });
});
```

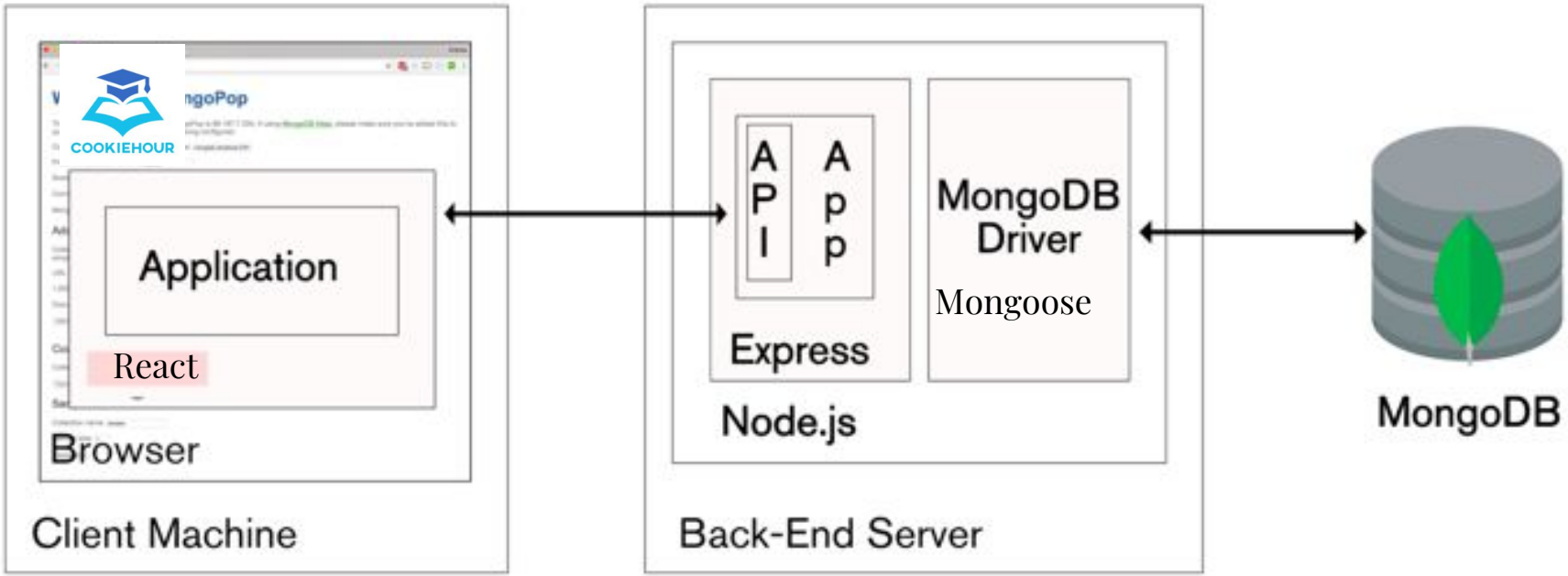
REACT TESTING

react-testing-library

Testing Example - Frontend

```
import { configure, shallow } from 'enzyme';
import Adapter from 'enzyme-adapter-react-16';
import 'jest-enzyme';

configure({ adapter: new Adapter() });

import React from 'react';
import ReactDOM from 'react-dom';
import {render, fireEvent, cleanup} from 'react-testing-library';
import StudentLogin from './StudentLogin';

// automatically unmount and cleanup DOM after the test is finished.
afterEach(cleanup);

describe('Student Login Test', function () {

  it('renders without crashing', () => {
    shallow(<StudentLogin />);
  });

  it('username field exists', () => {
    const {getByTestId} = render(
      <StudentLogin />
    );
    expect(getByTestId('email')).not.toBeNull();
  });

  it('password field exists', () => {
    const {getByTestId} = render(
      <StudentLogin />
    );
    expect(getByTestId('password')).not.toBeNull();
  });

})
```

Architecture



Architecture cont - Api.md

user Operations about user

GET	`/user`	Gets the currently logged in profile of the user

student Operations about student

POST	`/student/login`	Logs student into the system
GET	`/student/profile`	Gets the currently logged in student
DELETE	`/student/logout/{sessionId}`	Logs-out the student out of the system

teacher Operations about teacher

POST	`/teacher/login`	Logs teacher into the system
GET	`/teacher/profile`	Gets the current logged in teacher
DELETE	`/teacher/logout/{sessionId}`	Logs-out the teacher out of the system

meeting Operations about meeting

POST	`/meeting/create/student`	Creates a meeting for the logged in student
GET	`/meeting/get-meeting/{client}`	Gets all the meetings for given office hour block
PATCH	`/meeting/edit-agenda/student`	Edits the agenda of the student for the given meeting
PATCH	`/meeting/edit-comment/{client}`	Edits comments made in a meeting
PATCH	`/meeting/edit-note/teacher`	Edits notes made in a meeting
PATCH	`/meeting/reschedule-time`	Reschedules the time of a meeting
PATCH	`/meeting/reschedule-date`	Reschedules the date of a meeting
DELETE	`/meeting/delete`	Unschedules the meeting and frees up the time slot in the office hours
DELETE	`/meeting/delete-note/teacher`	Deletes a note in a meeting
DELETE	`/meeting/delete-comment`	Deletes the comment associated with the meeting

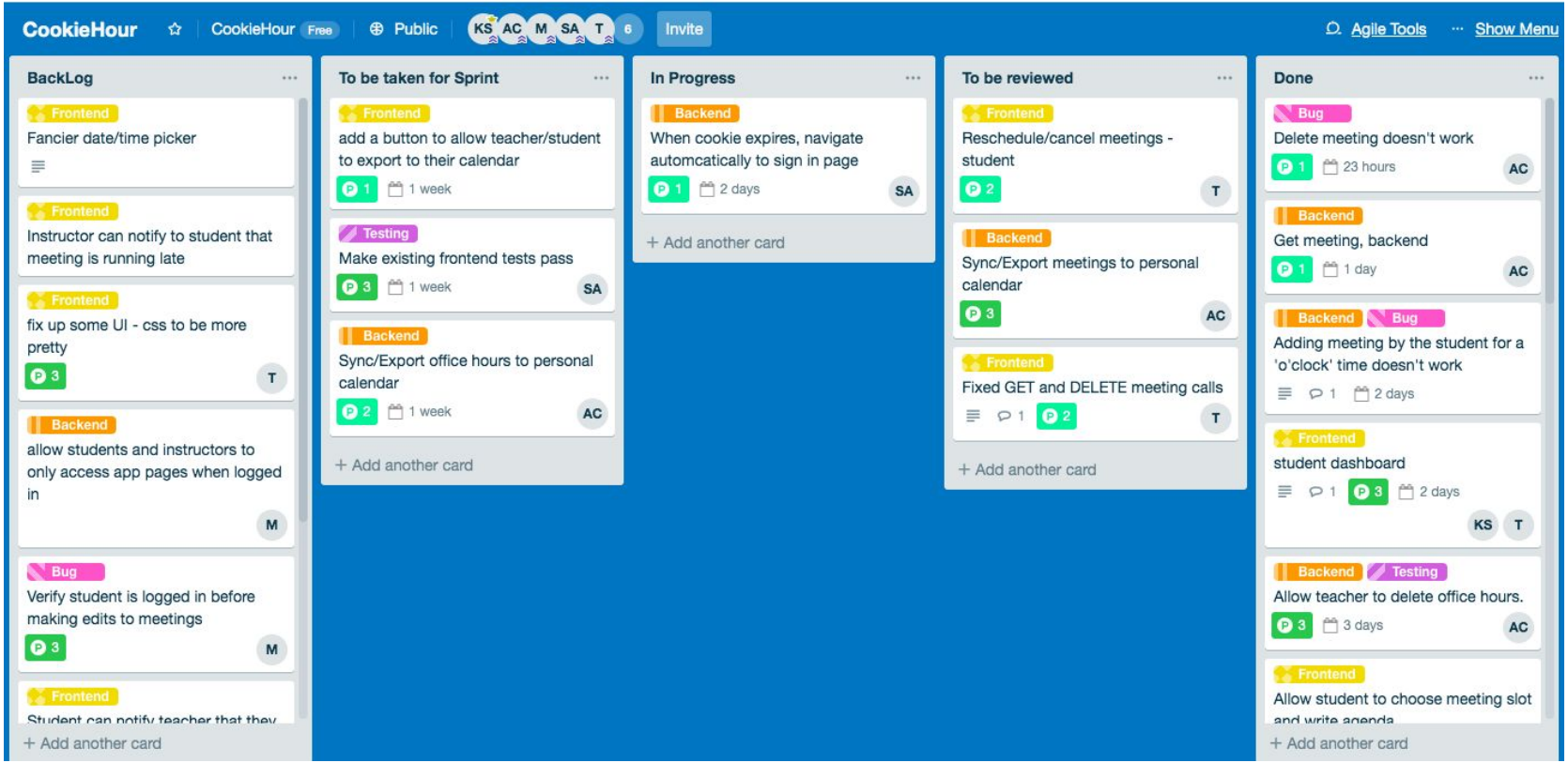
How we worked together

Trello

Meetings Every Monday

GitHub

How we worked together



How we worked together

- Sprint lasted the time to get a phase document done. Average of 2 weeks
    - Story points: 1,2,3,5
- Labels on tasks in trello: Frontend, Backend, Bug, Document
- Backend - Kyra, Misan , Adam
    - Frontend - Tim, Simon

What went Well

- Finished all tasks with Priority 2 and up
- Learning goal of using MERN stack and practicing TDD achieved
- Frontend and Backend successfully work together

What went Bad

- Frontend testing could be more rigorous
- Didn't get to do notifications feature: "I'm running late" "Meeting is going over the time"
- Interesting bugs: Some of our functions would falsely throw errors because of mock data in the database not matching up

Phase 2 Burndown

Phase 3 Burndown

Demo