



# SiTE

*Student integrated  
Tracking Environment*

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# The Problem at Hand:

Where is a CA/TA?

Why aren't they here?

When are they suppose to be here?



# Our Mission Statement:

Simplify and expedite a students process for identifying their TA/CA's office hours



# Tools of the Trade

Tool: GitHub

Purpose: Repository

Rating:

K: 5	T: 5	D: 5
I: 5	E: 5	M: 5

avg:  
5



Tool: GitHub Projects

Purpose: Project Tracker

Rating:

K: 3	T: 2	D: 3
I: 4	E: 3	M: 3

avg :  
3

# Tools of the Trade



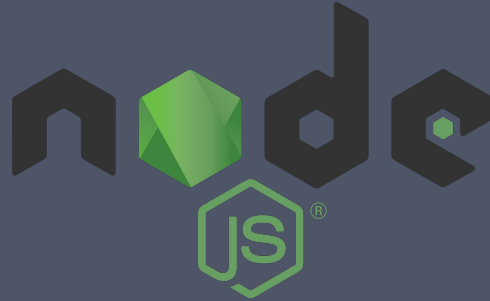
Tool: Slack/Text

Purpose:  
Communication  
and Planning

Rating:

avg :  
5.67

K: 5	T: 5	D: 5
I: 5	E: 9	M: 5



Tool:  
Node.js/NPM

Purpose:  
Backend, Main  
Framework

avg :  
2.16

K: 2	T: 2	D: 2
I: 2	E: 3	M: 2

# Tools of the Trade Cont.



Tool: Azure

Purpose: Database

Rating:



K: 2	T: 3	D: 2
I: 2	E: 2	M: 2



Tool: Mocha/Chai

Purpose:  
Automated Testing

Rating:



K: 4	T: 4	D: 3
I: 4	E: 4	M: 4



Tool: Heroku

Purpose:  
Deployment

Rating:



K: 3	T: 3	D: 3
I: 4	E: 5	M: 3

Microsoft Azure

Search resources, services, and docs

Home > SQL databases > SDAssistants - Query editor (preview)

SQL database

Search (Ctrl+F)

Login Edit Data (Preview) + New Query Open query Save query Feedback

SDAssistants (site)

Showing limited object explorer here. For full capability please open SSDT.

Tables

- dbo.login
- dbo.course
- dbo.students
- dbo.assistants

Views

Stored Procedures

Query 1

Run Cancel query

```
1 select * from assistants
```

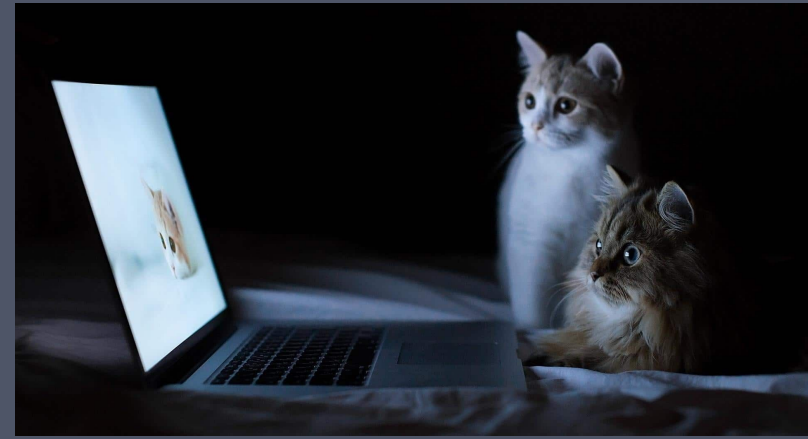
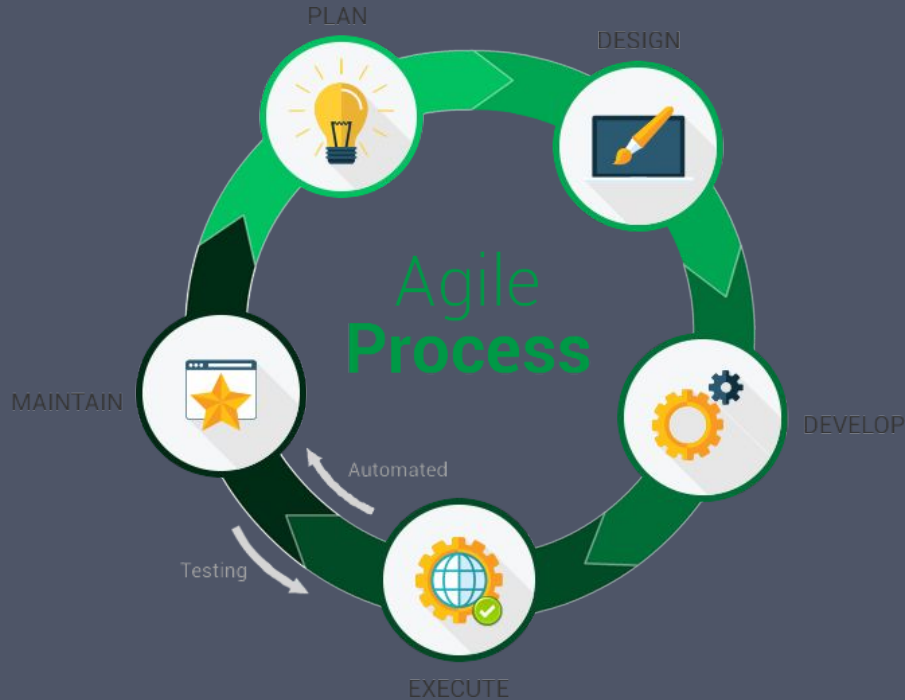
Results Messages

FULL_NAME	CLASS	MONDAYS	TUESDAYS	WEDNESDAYS	THURSDAYS
Ethan Ward	Algorithms	0	0	0	0
Isreal Miles	Software Development	16	16	16	16
Tanner ORourke	Discrete Structures	0	0	0	0
Derek	Computer Systems	0	0	0	1
Katie	Data Structures	0	0	0	1
Vivian Lai	Software Development	15	0	0	0

Query succeeded | 0s

Azure Database

# Methodologies



- Agile Method
- Weekly meetings, Small Meetups
- Pair Programming



# Methodologies Cont.

## Why Agile For Us?

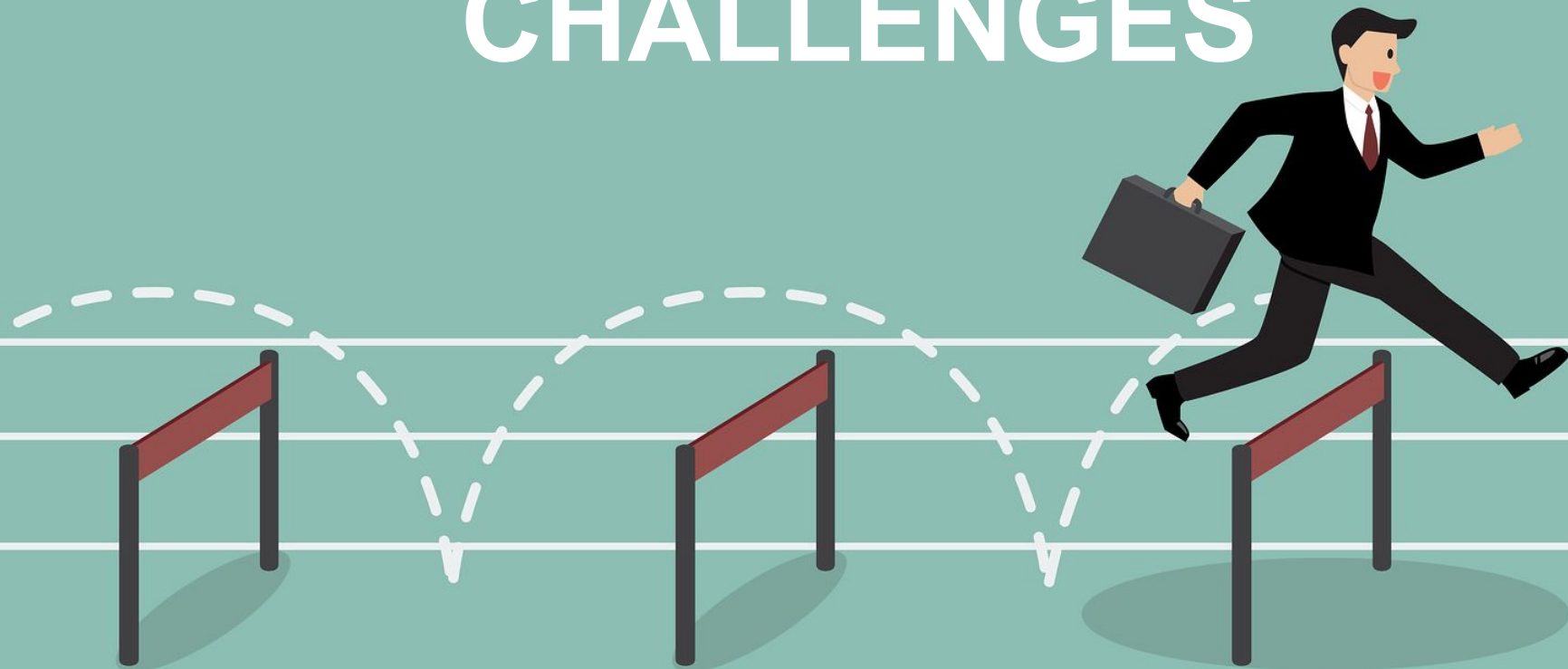
- Many features worked on
- Reduce risk of failing, more testing



## Purpose of Pairing/Meeting?

- Meetings kept everyone updated locally
- Pairing helped individual work

# CHALLENGES



# Coding Hurdles

User Authorization and Authentication

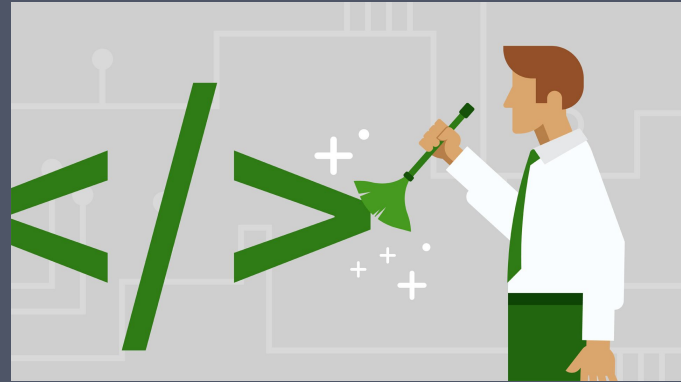
Heroku permissions

NodeJS, Javascript/HTML

Azure server IP usage

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Code readability / refactoring



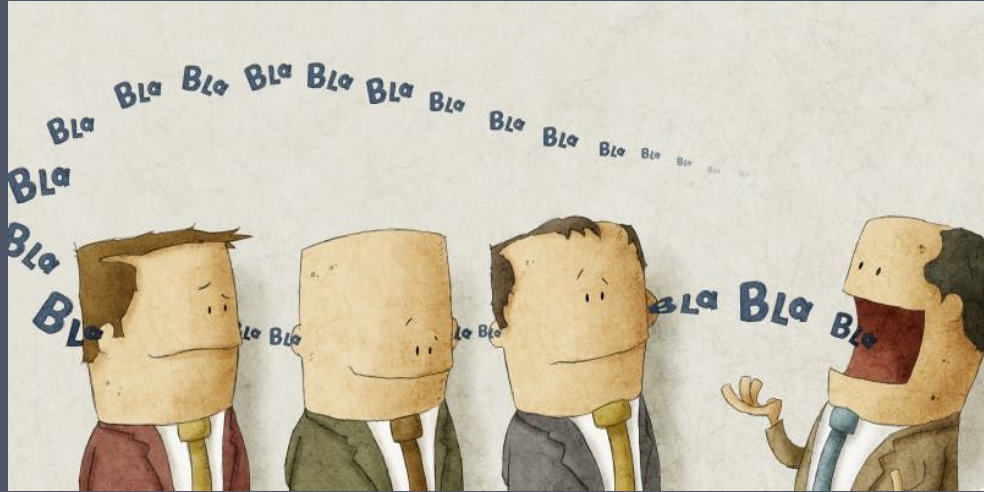
# More Coding Hurdles

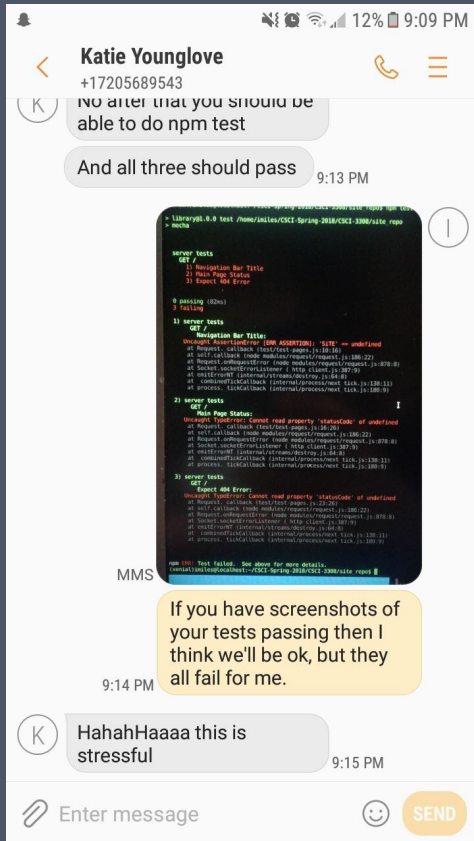
Talking to people about code is hard

Errors in ejs are very unclear

Learning Version Control

Personalized experience for users





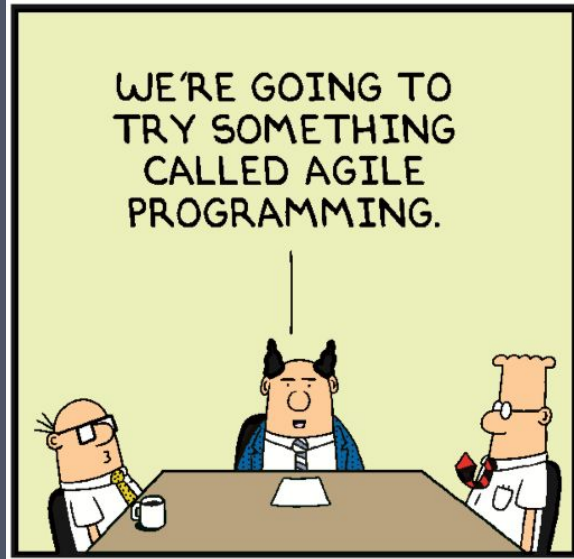
```
user@cu-cs-vm:~/Documents/newSite/site_repo$ npm start

> library@1.0.0 start /home/user/Documents/newSite/site_repo
> DEBUG=app,app:* nodemon app.js

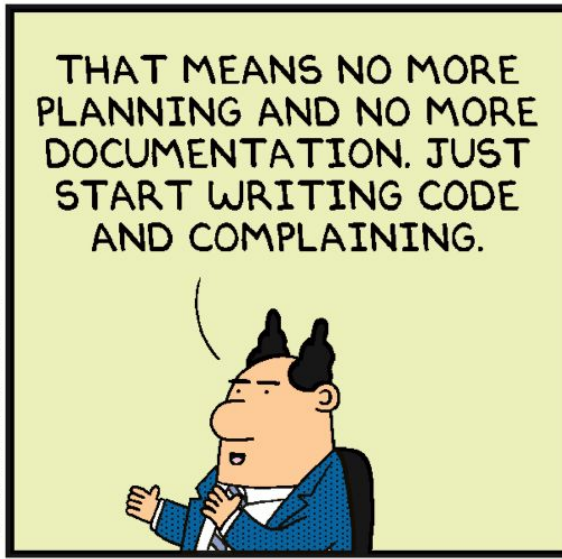
[nodemon] 1.17.3
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node app.js`
module.js:549
  throw err;
  ^

Error: Cannot find module 'mssql'
    at Function.Module._resolveFilename (module.js:547:15)
    at Function.Module._load (module.js:474:25)
    at Module.require (module.js:596:17)
    at require (internal/module.js:11:18)
    at Object.<anonymous> (/home/user/Documents/newSite/site_repo/app.js:7:13)
    at Module.compile (module.js:652:30)
    at Object.Module._extensions..js (module.js:663:10)
    at Module.load (module.js:565:32)
    at tryModuleLoad (module.js:505:12)
    at Function.Module._load (module.js:497:3)
[nodemon] app crashed - waiting for file changes before starting...
```

## Fun and Enriching Errors



www.dilbert.com  
scottadams@aol.com



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## Agile Hurdles

# Agile Hurdles

- Setting up group meetings
- The schedule was not always clear
- Self organizing
- Over -ambitious





Heroku link:  
[sitehq.herokuapp.com](https://sitehq.herokuapp.com)