

First Iteration Demo:  
CabX  
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**1. The date and time at which you already completed this demo, and briefly describe any challenges that arose during the demo.**

November 7, 12:30pm. Since we were showcasing the app on a simulator, we cannot click on the Uber / Lyft cards to directly call a ride-hailing service (this functionality is also not yet implemented).

**2. The specific user stories and conditions of satisfaction that were demonstrated, with an explanation of any changes since your revised proposal.**

We demonstrated CABX-001, CABX-002, CABX-003 and part of CABX-006 as outlined in our revised project proposal. We have not implemented the error message condition specified in the success criteria of CABX-001, CABX-002 and CABX-003 (right now, a default error message shows up rather than a custom pop up), otherwise all other conditions are satisfied. For CABX-006, we demonstrated the ability to save a user's search history. However, instead of storing it in a database, we currently store it as app data.

We have pushed the implementation of CABX-004 and CABX-005 to the second iteration, as approved by our project mentor, Kiran.

Current Tech Stack:

Frontend: JavaScript / React Native

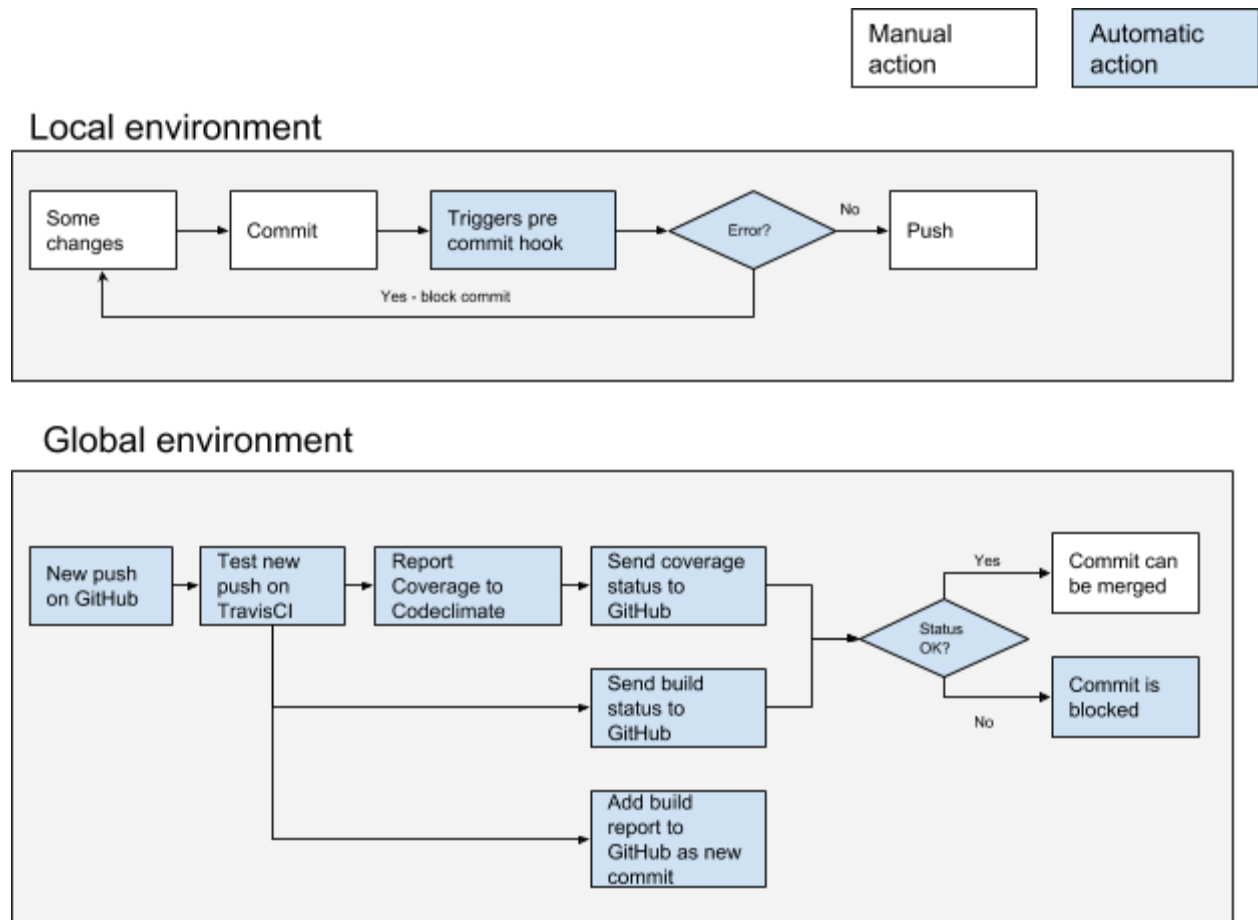
Backend: JavaScript, NodeJS (hosted on AWS)

Persistent Storage: locally stored via React Native (we will implement database storage in second iteration)

**3. A brief discussion of your CI mechanisms, including which technology you used.**

We explained our development/deployment workflow (pre and post commit) and demonstrated some examples. In order to provide a full report, first we explain and draft our full workflow and second attached the discussed example.

### 3.1 Full workflow



#### 3.1.1 Pre commit - pre commit hook

We use the library pre-commit to configure our pre-commit hooks in package.json

```
{
  ...
  "scripts": {
    "test": "node_modules/mocha/bin/mocha ./backend/test frontend/test",
    "eslint": "node_modules/eslint/bin/eslint.js backend/src frontend/src",
    "coverage": ". /node_modules/.bin/istanbul cover ./node_modules/.bin/_mocha frontend/test/*.js backend/test/*.js && ./node_modules/.bin/istanbul check-coverage --statements 70 --functions 70 --lines 70"
  },
  "pre-commit": [
    "test",
    "eslint",
    "coverage"
  ]
}
```

Pre-commit defines which scripts are executed. We define the exact commands in the scripts.

The following pre-commit hooks are executed for our project:

1. Unit tests with mocha
2. Style checker with eslint
3. Test coverage with istanbul and mocha

If one of the scripts returns an error, the changes will not be committed. The test coverage is set to 70% for statements, lines and functions.

Examples:

1. \*Please see appendix for the output of a successful commit

2. Unsuccessful unit test:

```
Array
  #indexOf()
    1) should return -1 when the value is not present

Array
  #indexOf()
    ✓ should return -1 when the value is not present

46 passing (70ms)
1 failing

1) Array
   #indexOf()
     should return -1 when the value is not present:

    AssertionError [ERR_ASSERTION]: -1 == 1
    + expected - actual

    --1
    +1

    at Context.<anonymous> (backend/test/sample_test.js:6:14)

pre-commit:
pre-commit: We've failed to pass the specified git pre-commit hooks as the 'test'
pre-commit: hook returned an exit code (1). If you're feeling adventurous you can
pre-commit: skip the git pre-commit hooks by adding the following flags to your commit:
pre-commit:
pre-commit:     git commit -n (or --no-verify)
pre-commit:
pre-commit: This is ill-advised since the commit is broken.
pre-commit:
dyn-160-39-161-130: CabX bennys$
```

Returns error message and changes are not committed

### 3. Unsuccessful style checker:

```
47 passing (77ms)

/Users/bennys/Projects/Columbia/05_Adv/04_CabX/CabX/backend/src/getLyft.js
6:1  error  Expected indentation of 2 spaces but found 5  indent

* 1 problem (1 error, 0 warnings)
1 error and 0 warnings potentially fixable with the `--fix` option.

pre-commit:
pre-commit: We've failed to pass the specified git pre-commit hooks as the `eslint`
pre-commit: hook returned an exit code (1). If you're feeling adventurous you can
pre-commit: skip the git pre-commit hooks by adding the following flags to your commit:
pre-commit:
pre-commit:   git commit -n (or --no-verify)
pre-commit:
pre-commit: This is ill-advised since the commit is broken.
pre-commit:
dyn-160-39-161-130:CabX bennys$
```

Unit test passed, but style checker found an error. One file violated a rule. Changes are not committed

### 4. Test coverage is too low:

```
26 passing (51ms)

===== Coverage summary =====
Statements   : 44.59% ( 70/157 )
Branches     : 35.29% ( 24/68 )
Functions    : 43.48% ( 10/23 )
Lines        : 44.59% ( 70/157 )
=====
ERROR: Coverage for statements (46.63%) does not meet global threshold (70%)
ERROR: Coverage for lines (46.63%) does not meet global threshold (70%)
ERROR: Coverage for functions (48%) does not meet global threshold (70%)
pre-commit:
pre-commit: We've failed to pass the specified git pre-commit hooks as the `coverage`
pre-commit: hook returned an exit code (1). If you're feeling adventurous you can
pre-commit: skip the git pre-commit hooks by adding the following flags to your commit:
pre-commit:
pre-commit:   git commit -n (or --no-verify)
pre-commit:
pre-commit: This is ill-advised since the commit is broken.
pre-commit:
dyn-160-39-161-130:CabX bennys$
```

Unit test and style checker passed. But the test coverage is below 70%. Changes are not committed

### 3.1.2 Post Commit

We use the following tools:

- GitHub for version control
- TravisCI for continuous integration
  - Runs unit test and reports to GitHub
  - Reports code coverage to Code Climate
  - Adds reports of post commit build
- Code Climate
  - Reports code coverage criteria to GitHub

Sequence of post commit:

1. There is a new push or merge request on GitHub
2. Travis CI starts a machine on Travis Cloud and clones the new push/merge request

Configuration: .travis.yml

```
language: node_js
node_js:
  - node
script:
  - npm run coverage
after_script:
  - "./node_modules/.bin/codeclimate-test-reporter < ./coverage/lcov.info"
  - "npm run test > report_unittest.txt"
  - "npm run eslint > report_eslint.txt"
  - "npm run coverage_noccheck > report_coverage.txt"
  - "./push.sh"
```

3. Travis CI runs the unit test & code coverage

Search all repositories

My Repositories +

bazile-clyde/CabX #137

Duration: 4 sec

bschifferer/test

Duration: -

Current Branches Build History Pull Requests Build #134 More options

✓ master test coverage change

Commit 8aedfc3

Compare 8aedfc3...8aedfc3

Branch master

bschifferer

Node.js: node

Run for 3 min 22 sec

16 minutes ago

Restart build

Job log View config

```

1 Worker information
2 Build system information
3
4 Setting APT mirror in /etc/apt/sources.list: http://us-east-1.ec2.archive.ubuntu.com/ubuntu/
5
6 $ git clone --depth=50 --branch=master https://github.com/bazile-clyde/CabX.git bazile-clyde/CabX
7
8 Setting environment variables from repository settings
9 $ export CODECLIMATE_REPO_TOKEN=[secure]
10 $ export GH_TOKEN=[secure]
11
12 Setting environment variables from .travis.yml
13 $ export GH_TOKEN=[secure]
14
15 $ export PATH=/node_modules/.bin:$PATH
  
```

4. Travis CI adds the reports to the repository and pushes it into the branch coverage\_reports see ./push.sh script ( <https://github.com/bazile-clyde/CabX/blob/master/push.sh> ) [https://github.com/bazile-clyde/CabX/tree/coverage\\_reports/reports](https://github.com/bazile-clyde/CabX/tree/coverage_reports/reports)

Branch: coverage\_report CabX / reports / Create new file Upload files Find file History

This branch is 57 commits ahead, 1 commit behind master. Pull request Compare

Travis CI Travis build: 131 [ci skip] Latest commit 831a8ea 9 hours ago

Commit	Travis build	Time ago
101	Travis build: 101 [ci skip]	8 days ago
103	Travis build: 103 [ci skip]	7 days ago
104	Travis build: 104 [ci skip]	7 days ago
105	Travis build: 105 [ci skip]	7 days ago
109	Travis build: 109 [ci skip]	6 days ago
111	Travis build: 111 [ci skip]	6 days ago
114	Travis build: 114 [ci skip]	4 days ago
117	Travis build: 117 [ci skip]	4 days ago
119	Travis build: 119 [ci skip]	4 days ago
123	Travis build: 123 [ci skip]	3 days ago
125	Travis build: 125 [ci skip]	3 days ago
128	Travis build: 128 [ci skip]	9 hours ago
130	Travis build: 130 [ci skip]	9 hours ago
131	Travis build: 131 [ci skip]	9 hours ago

Branch: coverage\_report CabX / reports / 131 / Create new file Upload files Find file History

This branch is 57 commits ahead, 1 commit behind master. Pull request Compare

Travis CI Travis build: 131 [ci skip] Latest commit 831a8ea 9 hours ago

File	Travis build	Time ago
coverage	Travis build: 131 [ci skip]	9 hours ago
report_coverage.txt	Travis build: 131 [ci skip]	9 hours ago
report_enslint.txt	Travis build: 131 [ci skip]	9 hours ago
report_unittest.txt	Travis build: 131 [ci skip]	9 hours ago

For every build there is a separate folder with all reports.

- Travis CI stores unit test, eslint (style checker) and code coverage output to 3 separate text files (report\_unittest.txt, report\_enslint.txt, report\_coverage.txt)
- Travis CI creates a new folder in reports/ with the current build number
- Travis CI commits and pushes the reports to the branch coverage\_reports

5. If unit tests were successful, Travis CI sends status codes to GitHub

6. Travis CI sends test coverage report to Code Climate


7. If test coverage is sufficient (above the threshold) and test coverage decrease (difference) is small, Code Climate sends status codes to GitHub


If both status codes sent by Travis CI and Code Climate are OK, then the PR can be merged.

If the status codes are not OK, then the PR is blocked and cannot be merged with the master











Example:


Add more commits by pushing to the **demo\_report** branch on **bazile-clyde/CabX**.



 **Some checks were not successful** [Hide all checks](#)

1 failing, 2 pending, and 4 successful checks

	 <b>codeclimate/total-coverage</b> — 44% (~45.9% change) <a href="#">Details</a>
	 <b>codeclimate</b> Pending — Code Climate is analyzing this code. <a href="#">Details</a>
	 <b>continuous-integration/travis-ci/pr</b> Pending — The Travis CI build is in prog... <a href="#">Details</a>
	 <b>Travis CI - Branch</b> Successful in 1m — Build Passed <a href="#">Details</a>
	 <b>Travis CI - Pull Request</b> Successful in 1m — Build Passed <a href="#">Details</a>

 **This branch has no conflicts with the base branch**  
Merging can be performed automatically.

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Travis CI reported that the unit test successfully ran.

Code climate reported that the code coverage is 44% and below the threshold. Therefore, the PR could not be merged with the master. (In the screenshot, I can merge as an administrator)

### 3.2 Examples during demo

In our presentation, we demonstrated the following parts:

- 1) Explanation of overall workflow
- 2) Showing and explaining our configuration for pre-commit and post-commit
- 3) Demonstrated an example of a successful pre commit
- 4) Demonstrated an example of an unsuccessful pre-commit - unit test failed (no changes were committed)
- 5) Demonstrated an example of a successful push - successful Travis CI build and code coverage reports in GitHub repository  
([https://github.com/bazile-clyde/CabX/tree/coverage\\_reports/reports](https://github.com/bazile-clyde/CabX/tree/coverage_reports/reports))
- 6) Demonstrated an example of an unsuccessful push - low code coverage. We showed the status codes in GitHub and that the PR could not be merged with the master

4. A link to the github repository where your entire codebase resides. Tag the revisions that were shown in the demo.

<https://github.com/bazile-clyde/CabX>

Reports:

[https://github.com/bazile-clyde/CabX/tree/coverage\\_reports/reports](https://github.com/bazile-clyde/CabX/tree/coverage_reports/reports)

## Appendix:

### Commit output

```
dyn-160-39-161-130:CabX bennys$ git commit

getFindRides.js
  findRides() error for from address
500
  ✓ 500 response code from bing
  findRides() cannot find from address
  ✓ empty response from bing
  findRides() error for to address
500
  ✓ 500 response code from bing
  findRides() cannot find to address
  ✓ empty response to bing
  findRides() - standard success
[ { name: 'Empire State Building, NY',
  confidence: 'High',
  lat: 40.7484359741211,
  long: -73.9858093261719,
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } } ]
[ { ride_hailing_service: 'uber',
  display_name: 'Black SUV',
  estimated_duration_seconds: 1920,
  estimated_distance_miles: 6.88,
  estimated_cost_cents_min: 61,
  estimated_cost_cents_max: 76 },
  { ride_hailing_service: 'uber',
  display_name: 'Black SUV 2',
  estimated_duration_seconds: 2000,
  estimated_distance_miles: 10,
  estimated_cost_cents_min: 70,
  estimated_cost_cents_max: 80 },
  { ride_hailing_service: 'lyft',
  display_name: 'Lyft Service',
  estimated_duration_seconds: 1920,
```



```

    estimated_distance_miles: 6.88,
    estimated_cost_cents_min: 61,
    estimated_cost_cents_max: 76 },
{ ride_hailing_service: 'lyft',
  display_name: 'Lyft Service 2',
  estimated_duration_seconds: 2000,
  estimated_distance_miles: 10,
  estimated_cost_cents_min: 80,
  estimated_cost_cents_max: 100 } ]
  ✓ find lyft and uber

getLatLongFromAddress.js
requestLatLongFromAddress() success
  ✓ 200 response code
requestLatLongFromAddress() error
  ✓ 500 response code
getRelevantInformationFromLatLongResponse()
  ✓ success
{ confidence: 'High',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
  ✓ missing name
{ name: 'Empire State Building',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
  ✓ missing confidence
{ name: 'Empire State Building',
  confidence: 'High',
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
  ✓ missing geocodePoints
{ name: 'Empire State Building',
  confidence: 'High',
  geocodePoints: [ { coordinates: [Array] } ] }
does not include all required fields
  ✓ missing address
{ name: 'Empire State Building',
  confidence: 'High',
  geocodePoints: [ {} ],
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',

```

```

    formattedAddress: 'Empire State Building, NY',
    locality: 'New York' } }
does not include all required fields
    ✓ missing coordinates
{ name: 'Empire State Building',
  confidence: 'High',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
    ✓ only one coordinate
processBingResponseBody()
    ✓ success standard case
    ✓ success empty input
{ confidence: 'High 1',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY 1',
      countryRegion: 'United States 1',
      formattedAddress: 'Empire State Building, NY 1',
      locality: 'New York 1' } }
does not include all required fields
    ✓ error one wrong, one correct
{ confidence: 'High 1',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY 1',
      countryRegion: 'United States 1',
      formattedAddress: 'Empire State Building, NY 1',
      locality: 'New York 1' } }
does not include all required fields
{ name: 'Empire State Building 2',
  confidence: 'High 2',
  address:
    { adminDistrict: 'NY 2',
      countryRegion: 'United States 2',
      formattedAddress: 'Empire State Building, NY 2',
      locality: 'New York 2' } }
does not include all required fields
    ✓ error two wrong
processBingLatLongResponse()
    ✓ success standard case
{ authenticationResultCode: 'ValidCredentials',
  brandLogoUri: 'http://dev.virtualearth.net/Branding/logo_powered_by.png',
  copyright: 'Copyright (c) 2018',
  statusCode: 200,
  statusDescription: 'OK',
  traceId: 'traceId' }
does not include all required fields
    ✓ error missing resourceSets
{ authenticationResultCode: 'ValidCredentials',
  brandLogoUri: 'http://dev.virtualearth.net/Branding/logo_powered_by.png',
  copyright: 'Copyright (c) 2018',

```

```

resourceSets: [ { estimatedTotal: 2 } ],
statusCode: 200,
statusDescription: 'OK',
traceId: 'traceId' }
does not include all required fields
    ✓ error missing resources

getLyft.js
  getRelevantInformationFromLyftResponse()
    ✓ success - standard case
{ estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100,
  estimated_duration_seconds: 1920 }
does not include all required fields
    ✓ error - missing display_name
{ display_name: 'Lyft Service',
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100,
  estimated_duration_seconds: 1920 }
does not include all required fields
    ✓ error - missing estimated_distance_miles
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_min: 6100,
  estimated_duration_seconds: 1920 }
does not include all required fields
    ✓ error - missing estimated_cost_cents_max
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_duration_seconds: 1920 }
does not include all required fields
    ✓ error - missing estimated_cost_cents_min
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100 }
does not include all required fields
    ✓ error - missing estimated_duration_seconds
  processLyftResponseBody()
    ✓ success - standard case
    ✓ success empty input
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100 }
does not include all required fields
    ✓ error one wrong, one correct
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100 }
does not include all required fields
{ display_name: 'Lyft Service 2',
  estimated_distance_miles: 10,

```

```

    estimated_cost_cents_min: 8000,
    estimated_duration_seconds: 2000 }
does not include all required fields
    ✓ error two wrong
    lyftPrices() success
    ✓ 200 response code
    lyftPrices() error
    ✓ 500 response code

getUber.js
    getRelevantInformationFromUberResponse()
        ✓ success - standard case
{ distance: 6.88,
  high_estimate: 76,
  low_estimate: 61,
  duration: 1920 }
does not include all required fields
    ✓ error - missing display_name
{ display_name: 'Black SUV',
  high_estimate: 76,
  low_estimate: 61,
  duration: 1920 }
does not include all required fields
    ✓ error - missing distance
{ display_name: 'Black SUV',
  distance: 6.88,
  low_estimate: 61,
  duration: 1920 }
does not include all required fields
    ✓ error - missing high_estimate
{ display_name: 'Black SUV',
  distance: 6.88,
  high_estimate: 76,
  duration: 1920 }
does not include all required fields
    ✓ error - missing low_estimate
{ display_name: 'Black SUV',
  distance: 6.88,
  high_estimate: 76,
  low_estimate: 61 }
does not include all required fields
    ✓ error - missing duration
    processUberResponseBody()
        ✓ success - standard case
        ✓ success empty input
{ distance: 6.88,
  high_estimate: 76,
  low_estimate: 61,
  duration: 1920 }
does not include all required fields
    ✓ error one wrong, one correct
{ distance: 6.88,
  high_estimate: 76,
  low_estimate: 61,
  duration: 1920 }
does not include all required fields

```

```
{ display_name: 'Black SUV 2',  
  high_estimate: 80,  
  low_estimate: 70,  
  duration: 2000 }
```

does not include all required fields

- ✓ error two wrong
- uberPrices() success
- ✓ 200 response code
- uberPrices() error
- ✓ 500 response code

Array

```
#indexOf()  
✓ should return -1 when the value is not present
```

Array

```
#indexOf()  
✓ should return -1 when the value is not present
```

47 passing (66ms)

Array

```
#indexOf()  
✓ should return -1 when the value is not present
```

getFindRides.js

```
findRides() error for from address
```

500

- ✓ 500 response code from bing
- findRides() cannot find from address
- ✓ empty response from bing
- findRides() error for to address

500

- ✓ 500 response code from bing
- findRides() cannot find to address
- ✓ empty response to bing
- findRides() - standard success

```
[ { name: 'Empire State Building, NY',  
  confidence: 'High',  
  lat: 40.7484359741211,  
  long: -73.9858093261719,  
  address:  
    { adminDistrict: 'NY',  
      countryRegion: 'United States',  
      formattedAddress: 'Empire State Building, NY',  
      locality: 'New York' } } ]  
[ { ride_hailing_service: 'uber',  
  display_name: 'Black SUV',  
  estimated_duration_seconds: 1920,  
  estimated_distance_miles: 6.88,  
  estimated_cost_cents_min: 61,  
  estimated_cost_cents_max: 76 },  
  { ride_hailing_service: 'uber',
```

```

    display_name: 'Black SUV 2',
    estimated_duration_seconds: 2000,
    estimated_distance_miles: 10,
    estimated_cost_cents_min: 70,
    estimated_cost_cents_max: 80 },
  { ride_hailing_service: 'lyft',
    display_name: 'Lyft Service',
    estimated_duration_seconds: 1920,
    estimated_distance_miles: 6.88,
    estimated_cost_cents_min: 61,
    estimated_cost_cents_max: 76 },
  { ride_hailing_service: 'lyft',
    display_name: 'Lyft Service 2',
    estimated_duration_seconds: 2000,
    estimated_distance_miles: 10,
    estimated_cost_cents_min: 80,
    estimated_cost_cents_max: 100 } ]
    ✓ find lyft and uber

getLatLongFromAddress.js
  requestLatLongFromAddress() success
    ✓ 200 response code
  requestLatLongFromAddress() error
    ✓ 500 response code
  getRelevantInformationFromLatLongResponse()
    ✓ success
{ confidence: 'High',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
  ✓ missing name
{ name: 'Empire State Building',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
  ✓ missing confidence
{ name: 'Empire State Building',
  confidence: 'High',
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
  ✓ missing geocodePoints
{ name: 'Empire State Building',
  confidence: 'High',
  geocodePoints: [ { coordinates: [Array] } ] }

```

```

does not include all required fields
    ✓ missing address
{ name: 'Empire State Building',
  confidence: 'High',
  geocodePoints: [ {} ],
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
    ✓ missing coordinates
{ name: 'Empire State Building',
  confidence: 'High',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY',
      countryRegion: 'United States',
      formattedAddress: 'Empire State Building, NY',
      locality: 'New York' } }
does not include all required fields
    ✓ only one coordinate
processBingResponseBody()
    ✓ success standard case
    ✓ success empty input
{ confidence: 'High 1',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY 1',
      countryRegion: 'United States 1',
      formattedAddress: 'Empire State Building, NY 1',
      locality: 'New York 1' } }
does not include all required fields
    ✓ error one wrong, one correct
{ confidence: 'High 1',
  geocodePoints: [ { coordinates: [Array] } ],
  address:
    { adminDistrict: 'NY 1',
      countryRegion: 'United States 1',
      formattedAddress: 'Empire State Building, NY 1',
      locality: 'New York 1' } }
does not include all required fields
{ name: 'Empire State Building 2',
  confidence: 'High 2',
  address:
    { adminDistrict: 'NY 2',
      countryRegion: 'United States 2',
      formattedAddress: 'Empire State Building, NY 2',
      locality: 'New York 2' } }
does not include all required fields
    ✓ error two wrong
processBingLatLngResponse()
    ✓ success standard case
{ authenticationResultCode: 'ValidCredentials',
  brandLogoUri: 'http://dev.virtualearth.net/Branding/logo_powered_by.png',
  copyright: 'Copyright (c) 2018',

```

```

    statusCode: 200,
    statusDescription: 'OK',
    traceId: 'traceId' }
does not include all required fields
    ✓ error missing resourceSets
{ authenticationResultCode: 'ValidCredentials',
  brandLogoUri: 'http://dev.virtualearth.net/Branding/logo_powered_by.png',
  copyright: 'Copyright (c) 2018',
  resourceSets: [ { estimatedTotal: 2 } ],
  statusCode: 200,
  statusDescription: 'OK',
  traceId: 'traceId' }
does not include all required fields
    ✓ error missing resources

getLyft.js
  getRelevantInformationFromLyftResponse()
    ✓ success - standard case
{ estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100,
  estimated_duration_seconds: 1920 }
does not include all required fields
    ✓ error - missing display_name
{ display_name: 'Lyft Service',
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100,
  estimated_duration_seconds: 1920 }
does not include all required fields
    ✓ error - missing estimated_distance_miles
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_min: 6100,
  estimated_duration_seconds: 1920 }
does not include all required fields
    ✓ error - missing estimated_cost_cents_max
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_duration_seconds: 1920 }
does not include all required fields
    ✓ error - missing estimated_cost_cents_min
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100 }
does not include all required fields
    ✓ error - missing estimated_duration_seconds
  processLyftResponseBody()
    ✓ success - standard case
    ✓ success empty input
{ display_name: 'Lyft Service',
  estimated_distance_miles: 6.88,
  estimated_cost_cents_max: 7600,
  estimated_cost_cents_min: 6100 }
does not include all required fields

```



```

    ✓ error one wrong, one correct
    { display_name: 'Lyft Service',
      estimated_distance_miles: 6.88,
      estimated_cost_cents_max: 7600,
      estimated_cost_cents_min: 6100 }
    does not include all required fields
    { display_name: 'Lyft Service 2',
      estimated_distance_miles: 10,
      estimated_cost_cents_min: 8000,
      estimated_duration_seconds: 2000 }
    does not include all required fields
    ✓ error two wrong
    lyftPrices() success
    ✓ 200 response code
    lyftPrices() error
    ✓ 500 response code

getUber.js
  getRelevantInformationFromUberResponse()
    ✓ success - standard case
    { distance: 6.88,
      high_estimate: 76,
      low_estimate: 61,
      duration: 1920 }
    does not include all required fields
    ✓ error - missing display_name
    { display_name: 'Black SUV',
      high_estimate: 76,
      low_estimate: 61,
      duration: 1920 }
    does not include all required fields
    ✓ error - missing distance
    { display_name: 'Black SUV',
      distance: 6.88,
      low_estimate: 61,
      duration: 1920 }
    does not include all required fields
    ✓ error - missing high_estimate
    { display_name: 'Black SUV',
      distance: 6.88,
      high_estimate: 76,
      duration: 1920 }
    does not include all required fields
    ✓ error - missing low_estimate
    { display_name: 'Black SUV',
      distance: 6.88,
      high_estimate: 76,
      low_estimate: 61 }
    does not include all required fields
    ✓ error - missing duration
    processUberResponseBody()
    ✓ success - standard case
    ✓ success empty input
    { distance: 6.88,
      high_estimate: 76,
      low_estimate: 61,

```

```
    duration: 1920 }
does not include all required fields
    ✓ error one wrong, one correct
{ distance: 6.88,
  high_estimate: 76,
  low_estimate: 61,
  duration: 1920 }
does not include all required fields
{ display_name: 'Black SUV 2',
  high_estimate: 80,
  low_estimate: 70,
  duration: 2000 }
does not include all required fields
    ✓ error two wrong
uberPrices() success
    ✓ 200 response code
uberPrices() error
    ✓ 500 response code

Array
  #indexOf()
    ✓ should return -1 when the value is not present
```

47 passing (71ms)

```
===== Coverage summary =====
Statements   : 90.45% ( 142/157 )
Branches     : 83.82% ( 57/68 )
Functions    : 91.3% ( 21/23 )
Lines        : 90.45% ( 142/157 )
=====
Aborting commit due to empty commit message.
dyn-160-39-161-130: CabX bennys$ git commit
```