

donation-service

▼ **donation-client** ~/repos/module:

▶ **assets**

▶ **aurelia_project**

▶ **node_modules** library root

▶ **scripts**

▼ **src**

▶ **resources**

▼ **services**

JS **async-http-client.js**

JS **donation-service.js**

JS **fixtures.js**

JS **messages.js**

▼ **viewmodels**

▼ **candidates**

H **candidates.html**

JS **candidates.js**

▼ **dashboard**

H **dashboard.html**

JS **dashboard.js**

▼ **donate**

H **donate.html**

JS **donate.js**

▼ **login**

H **login.html**

JS **login.js**

▼ **logout**

H **logout.html**

JS **logout.js**

▼ **report**

H **report.html**

JS **report.js**

▼ **signup**

H **signup.html**

JS **signup.js**

▼ **stats**

H **stats.html**

JS **stats.js**

H **app.html**

JS **app.js**

JS **environment.js**

H **home.html**

JS **home.js**

JS **main.js**

H **nav-bar.html**

▶ **test**

JSON **.babelrc**

editorconfig **.editorconfig**

JSON **.eslintrc.json**

gitignore **.gitignore**

favicon.ico **favicon.ico**

H **index.html**

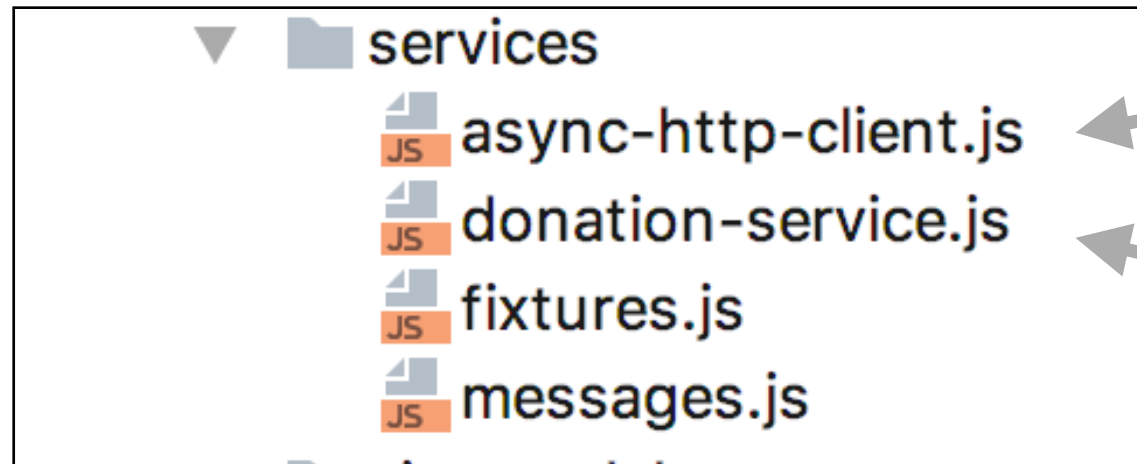
JSON **jsconfig.json**

JS **karma.conf.js**

Core Service API Access

- All access to donation-web centralised in donation-service
- Able to connect to api just be refactoring this class

services



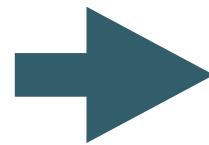
Simple wrapper around
aurelia-http-client

Refactored to use the
async-client

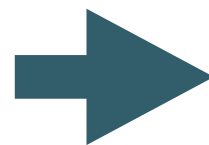
async-http-client

```
export default class Fixtures {  
  baseUrl = 'http://localhost:4000';  
  methods = ['Cash', 'PayPal'];  
}
```

All requests
prefixed by
fixtures.baseUrl



Pass promises
back to callers



```
import {inject} from 'aurelia-framework';  
import {HttpClient} from 'aurelia-http-client';  
import Fixtures from './fixtures';  
  
@inject(HttpClient, Fixtures)  
export default class AsyncHttpClient {  
  
  constructor(httpClient, fixtures) {  
    this.http = httpClient;  
    this.http.configure(http => {  
      http.withBaseUrl(fixtures.baseUrl);  
    });  
  }  
  
  get(url) {  
    return this.http.get(url);  
  }  
  
  post(url, obj) {  
    return this.http.post(url, obj);  
  }  
  
  delete(url) {  
    return this.http.delete(url);  
  }  
}
```

DonationService - 1

- View-Models attached to these arrays
- Retain 3 injected dependencies

```
import {inject} from 'aurelia-framework';
import Fixtures from './fixtures';
import {TotalUpdate, LoginStatus} from './messages';
import {EventAggregator} from 'aurelia-event-aggregator';
import AsyncHttpClient from './async-http-client';

@inject(Fixtures, EventAggregator, AsyncHttpClient)
export default class DonationService {

  donations = [];
  methods = [];
  candidates = [];
  users = [];
  total = 0;

  constructor(data, ea, ac) {
    this.methods = data.methods;
    this.ea = ea;
    this.ac = ac;
    this.getCandidates();
    this.getUsers();
  }
  ...
}
```

DonationService - 2

- Fulfilled promises update model objects
- The magic of data binding ensures the UX is updated

```
...

getCandidates() {
  this.ac.get('/api/candidates').then(res => {
    this.candidates = res.content;
  });
}

getUsers() {
  this.ac.get('/api/users').then(res => {
    this.users = res.content;
  });
}

addCandidate(firstName, lastName, office) {
  const candidate = {
    firstName: firstName,
    lastName: lastName,
    office: office
  };
  this.ac.post('/api/candidates', candidate).then(res => {
    this.candidates.push(res.content);
  });
}

...
```

DonationService - 3

```
export class TotalUpdate {  
  constructor(total) {  
    this.total = total;  
  }  
}
```

```
...  
  
donate(amount, method, candidate) {  
  const donation = {  
    amount: amount,  
    method: method  
  };  
  this.ac.post('/api/candidates/' + candidate._id + '/donations', donation).then(res => {  
    const returnedDonation = res.content;  
    this.donations.push(returnedDonation);  
    console.log(amount + ' donated to ' + candidate.firstName + ' ' +  
      candidate.lastName + ': ' + method);  
  
    this.total = this.total + parseInt(amount, 10);  
    console.log('Total so far ' + this.total);  
  
    this.ea.publish(new TotalUpdate(this.total));  
  });  
}  
  
...
```



Publish new Total to all
interested parties
(stats)

```
export class LoginStatus {  
  constructor(status) {  
    this.status = status;  
  }  
}
```

- These events will trigger router change in app

```
register(firstName, lastName, email, password) {  
  const newUser = {  
    firstName: firstName,  
    lastName: lastName,  
    email: email,  
    password: password  
  };  
  this.ac.post('/api/users', newUser).then(res => {  
    this.getUsers();  
  });  
}  
  
login(email, password) {  
  const status = {  
    success: false,  
    message: 'Login Attempt Failed'  
  };  
  for (let user of this.users) {  
    if (user.email === email && user.password === password) {  
      status.success = true;  
      status.message = 'logged in';  
    }  
  }  
  this.ea.publish(new LoginStatus(status));  
}  
  
logout() {  
  const status = {  
    success: false,  
    message: ''  
  };  
  this.ea.publish(new LoginStatus(status));  
}
```