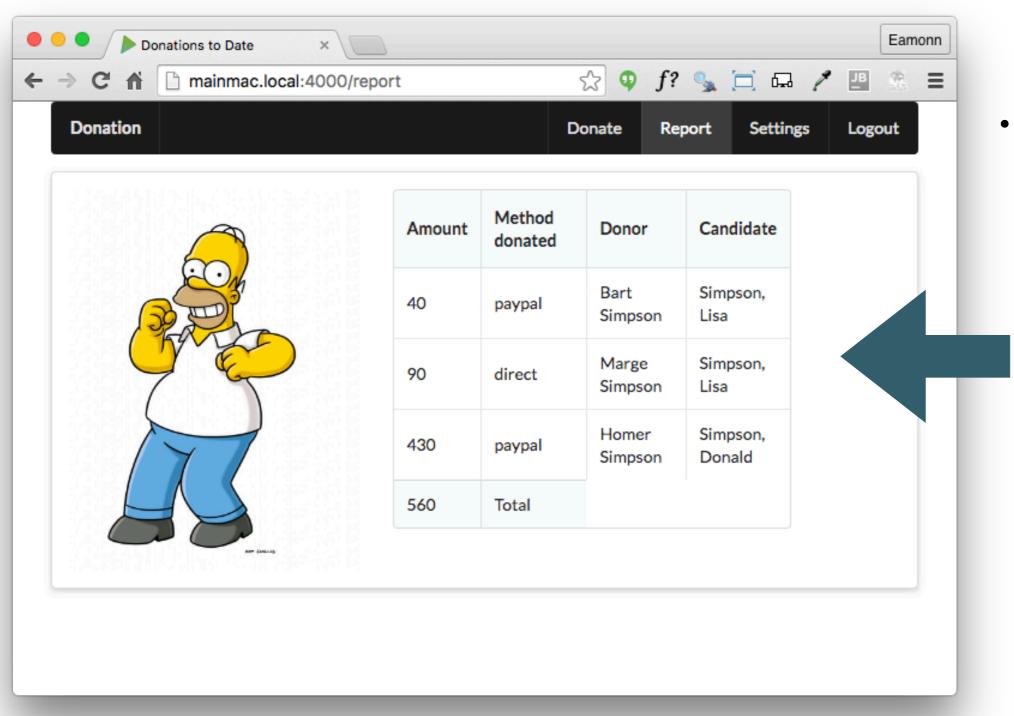


Candidates

Eamonn Make a Donation 😭 🗣 f? 🗣 🗀 🗗 🥕 📳 C nainmac.local:4000/home **Donation** Donate Report Settings Logout Extend the application to **Enter Amount** Amount to support Select Method multiple Paypal Direct candidates **Select Candidate** Simpson, Lisa Simpson, Donald **Donate**

Donations to Candidates



 Donation reports candidate donated to

Candidate Model

candidate.js

```
'use strict';
const mongoose = require('mongoose');
const candidateSchema = mongoose.Schema({
   firstName: String,
   lastName: String,
   office: String,
});
const Candidate = mongoose.model('Candidate', candidateSchema);
module.exports = Candidate;
```

Represent a Candidate

Seed the Candidate Model

initdata.json

```
const candidate.js

const candidateSchema = mongoose.Schema({
   firstName: String,
    lastName: String,
   office: String,
});
```

```
"candidates": {
   "_model": "Candidate",
   "lisa": {
        "firstName": "Lisa",
        "lastName": "Simpson",
        "office": "President"
    },
   "donald": {
        "firstName": "Donald",
        "lastName": "Simpson",
        "office": "President"
    }
},
```

db.js

```
var seeder = require('mongoose-seeder');
const data = require('./initdata.json');
const Donation = require('./donation');
const User = require('./user');
const Candidate = require('./candidate.js');
seeder.seed(data, { dropDatabase: false, dropCollections: true }).then(dbData => {
    ...
}).catch(err => {
    ...
});
```

Candidate Reference in Donation

initdata.json

donation.js

```
const donationSchema = mongoose.Schema({
   amount: Number,
   method: String,
   donor: {
     type: mongoose.Schema.Types.ObjectId,
     ref: 'User',
   },
   candidate: {
     type: mongoose.Schema.Types.ObjectId,
     ref: 'Candidate',
   },
});
```

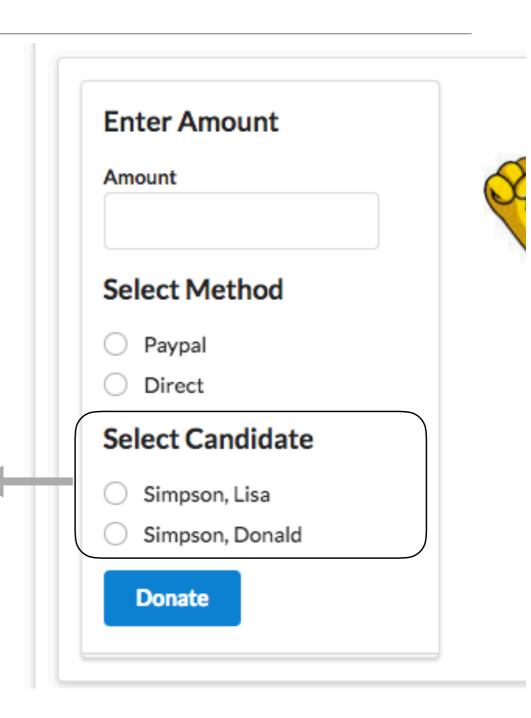
- Donations new refer to candidate
- Seeded model must also be updated

```
"donations": {
  "_model": "Donation",
  "one": {
    "amount": 40,
    "method": "paypal",
    "donor": "->users.bart",
    "candidate": "->candidates.lisa"
  },
  "two": {
    "amount": 90,
    "method": "direct",
    "donor": "->users.marge",
    "candidate": "->candidates.lisa"
  },
  "three": {
    "amount": 430,
    "method": "paypal",
    "donor": "->users.homer",
    "candidate": "->candidates.donald"
```

 Donate hander needs candidate list for the view:

Rendering the Donate view

```
handler: function (request, reply) {
   Candidate.find({}).then(candidates => {
      reply.view('home', {
        title: 'Make a Donation',
        candidates: candidates,
      });
   }).catch(err => {
      reply.redirect('/');
   });
});
```



Donation Model

- To create a donation we need:
 - id of donor
 - id of candidate
- This requires 2
 database read
 operations on 2
 different collections

donation.js

```
const donationSchema = mongoose.Schema({
   amount: Number,
   method: String,
   donor: {
     type: mongoose.Schema.Types.ObjectId,
     ref: 'User',
   },
   candidate: {
     type: mongoose.Schema.Types.ObjectId,
     ref: 'Candidate',
   },
});
```

Donate Handler

```
handler: function (request, reply) {
 var userEmail = request.auth.credentials.loggedInUser;
 let userId = null:
 let donation = null;
 User.findOne({ email: userEmail }).then(user => {
    let data = request.payload;
    userId = user._id;
    donation = new Donation(data);
    const rawCandidate = request.payload.candidate.split(',');
    return Candidate.findOne({ lastName: rawCandidate[0], firstName: rawCandidate[1] });
  }).then(candidate => {
    donation.donor = userId;
    donation.candidate = candidate._id;
    return donation.save():
  }).then(newDonation => {
    reply.redirect('/report');
  }).catch(err => {
    reply.redirect('/');
  });
```

Donate Handler

Locate User Object

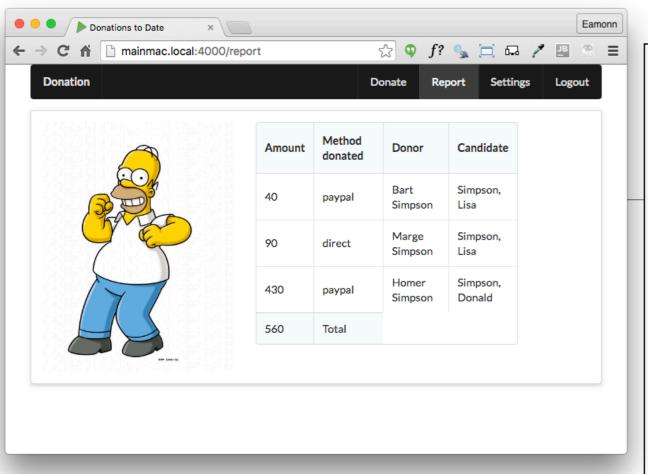
```
handler: function (request, reply) {
 var userEmail = request.auth.credentials.loggedInUser;
 let userId = null;
                                                                         Create
 let donation = null,
 User.findOne({ email: userEmail }).then(user => {
                                                                           New
   let data = request.payload;
   userId = user._id;
                                                                        Donation
   donation = new Donation(data); 
   const rawCandidate = request.payload.candidate.split(',');
    return Candidate.findOne({_lastName: rawCandidate[0], firstName: rawCandidate[1] });
 }).then(candidate => {
   donation.donor = userId;
   donation.candidate = candidate._id;
    return donation.save():
  }).then(newDonation => {
    reply.redirect(\/report');
  }).catch(err => {
    reply.redirect('\');
                                           Initalize New
 });
```

Save Donation

Donation with User and Candidate IDs

Locate Candidate Object

doationlist.hbs



Populating the Donations

```
<section class="ui raised segment">
 <div class="ui grid">
  <aside class="six wide column">
    <img src="images/homer5.jpg" class="ui medium image">
  </aside>
  <article class="eight wide column">
    <thead>
       Amount
        Method donated
        Donor
        Candidate
       </thead>
     {{#each donations}}
         {{amount}} 
           {{method}} 
           {{donor.firstName}} {{donor.lastName}} 
          {{candidate.lastName}}, {{candidate.firstName}} 
        {{/each}}
     </article>
 </div>
</section>
```

```
handler: function (request, reply) {
   Donation.find({}).populate('donor').populate('candidate').then(allDonations => {
      reply.view('report', {
          title: 'Donations to Date',
          donations: allDonations,
      });
   }).catch(err => {
      reply.redirect('/');
   });
},
```

Donate Handler - using Promises

```
handler: function (request, reply) {
 var userEmail = request.auth.credentials.loggedInUser;
 let userId = null:
 let donation = null;
 User.findOne({ email: userEmail }).then(user => {
    let data = request.payload;
    userId = user._id;
    donation = new Donation(data);
    const rawCandidate = request.payload.candidate.split(',');
    return Candidate.findOne({ lastName: rawCandidate[0], firstName: rawCandidate[1] });
  }).then(candidate => {
    donation.donor = userId;
    donation.candidate = candidate._id;
    return donation.save():
  }).then(newDonation => {
    reply.redirect('/report');
  }).catch(err => {
    reply.redirect('/');
  });
```

Alternative Donation Handler - using Callbacks

```
handler: function (request, reply) {
   var userEmail = request.auth.credentials.loggedInUser;
  let userId = null;
  let donation = null;
   User.findOne({ email: userEmail }).exec(function (err, user) {
     if (err) {
       reply.redirect('/');
     let data = request.payload;
     userId = user._id;
     donation = new Donation(data);
     const rawCandidate = request.payload.candidate.split(',');
     Candidate.findOne({ lastName: rawCandidate[0],
                        firstName: rawCandidate[1] }).exec(function (err, candidate) {
       if (err) {
         reply.redirect('/');
       donation.donor = userId;
       donation.candidate = candidate._id;
       donation.save(function (err, savedDonation) {
         if (err) {
           reply.redirect('/');
         reply.redirect('/report');
       });
     });
```

Promises v Callbacks

}).catch(err => {

});

reply.redirect('/');

```
handler: function (request, reply) {
 var userEmail = request.auth.credentials.loggedInUser;
 let userId = null;
 let donation = null;
 User.findOne({ email: userEmail }).then(user => {
   let data = request.payload;
   userId = user. id;
   donation = new Donation(data);
   const rawCandidate = request.payload.candidate.split(',');
   return Candidate.findOne({ lastName: rawCandidate[0], firstName: rawCandidate[1] });
  }).then(candidate => {
    donation.donor = userId;
   donation.candidate = candidate. id;
                                               handler: function (request, reply) {
    return donation.save():
 }).then(newDonation => {
                                                  let userId = null;
   reply.redirect('/report');
```

```
var userEmail = request.auth.credentials.loggedInUser;
let donation = null;
User.findOne({ email: userEmail }).exec(function (err, user) {
  if (err) {
    reply.redirect('/');
  let data = request.payload;
 userId = user. id;
  donation = new Donation(data);
  const rawCandidate = request.payload.candidate.split(',');
  Candidate.findOne({ lastName: rawCandidate[0],
                     firstName: rawCandidate[1] }).exec(function (err, candidate) {
    if (err) {
      reply.redirect('/');
    donation.donor = userId;
    donation.candidate = candidate. id;
    donation.save(function (err, savedDonation) {
      if (err) {
        reply.redirect('/');
      reply.redirect('/report');
   });
  });
});
```