```
ember new <name_of_the_app>

ember new loopylog
```

To start server:
===================

```
ember s
```

```
ember generate

ember g template application
```

```
ember g route production
```

To install addon
==================

```
ember install ember-pikaday
```

-->once install the add ons server has to refresh. so once aging enter <<ember s>> to start server

```
ember build --environment production
```

Check with python simple HTTP server:
=======================================

```
cd dist
```

```
python -m http.server 8000
```

```
python -m SimpleHTTPServer
```

Add more plugins
=================

```
ember install ember-cli-sass
ember install ember-cli-bourbon
ember install ember-font-awesome
```

restart server:

===============

```
ember s
```

update your application.hbs file which includes

```
<nav class="title">
<h1> Heading</h1>
</nav>

<main>
{{outlet}}
</main>
```

updated app.scss file with the spec styles.

check if the styles changed

**optional**

if styles not changed.

```
rmdir /s node_modules bower_components dist tmp
```

```
npm install
```

```
bower install
```

generate route for dimension page:

=======================================

```
ember g route production/dimension
```

add model in production.js

=============================

```
model(){
  return {
    "name" : "Tom",
    "age":23,
    "gender" : "Female"
   }
}
```

<u>Add the following in the production.hbs file:</u>

```
<h2>Production</h2>

<p>Name : {{model.name}}</p>
<p>Age: {{model.age}}</p>
<p>Gender : {{model.gender}}</p>
```

```
mkdir public\images
```

```
mkdir public\data
```

copy image into images

copy employee.json into data

**production.js**

```
import Ember from 'ember';

export default Ember.Route.extend({
  model(){
    /*return {
      "name" : "Tom",
      "age":23,
      "gender" : "Female"
    }*/
    return Ember.$.getJSON("/data/employee.json");
  }
});
```

**production.hbs**

```
<h2>Production</h2>

<p>Name : {{model.[10].name}}</p>
<p>Age: {{model.[10].age}}</p>
<p>Gender : {{model.[10].gender}}</p>
```

nested routes:

ember g route production/dimension

**production.hbs**

```
<h2>Production</h2>

<p>Product : {{model.[10].ProductName}}</p>
<p>Boards: {{model.[10].BoardsSum}}</p>
```

```
<p>BoardFeet : {{model.[10].BoardFeetSum}}</p>
<p>{{#link-to 'production.dimension'
model.[10].DimensionID}}Dimension : {{model.[10].DimensionName}}
{{/link-to}}</p>

{{outlet}}
```

## dimension.hbs

```
<h3>Dimension Details</h3>
{{outlet}}
```

Dynamic Segments:

## production.js

```
import Ember from 'ember';

export default Ember.Route.extend({
  model(params){
    /*return {
      "name" : "Tom",
      "age":23,
      "gender" : "Female"
    }*/
    return
Ember.$.getJSON(`/data/production.json?start=${params.start}&end
=${params.end}`);
  }
});
```

## router.js

```
import Ember from 'ember';
import config from './config/environment';

const Router = Ember.Router.extend({
  location: config.locationType,
  rootURL: config.rootURL
});

Router.map(function() {
  this.route('production', {path: "/:start/to/:end"}, function()
{
    this.route('dimension', {path: "/dimension/:dimension_id"});
  });
});

export default Router;
```

**production.hbs**

```
<h2>Production</h2>

<p>Product : {{model.[10].ProductName}}</p>
<p>Boards: {{model.[10].BoardsSum}}</p>
<p>BoardFeet : {{model.[10].BoardFeetSum}}</p>
<p>{{#link-to 'production.dimension'
model.[10].DimensionID}}Dimension : {{model.[10].DimensionName}}
{{/link-to}}</p>

{{outlet}}
```

**dimension.hbs**

```
<h3>Dimension : {{model.DimensionName}}</h3>
{{outlet}}
```

Use the below link in browser:

http://localhost:4200/yesterday/to/today

Index Routes:

```
ember g template production/index
```

**index.hbs**

```
<p>Product : {{model.[10].ProductName}}</p>
<p>Boards: {{model.[10].BoardsSum}}</p>
<p>BoardFeet : {{model.[10].BoardFeetSum}}</p>
<p>{{#link-to 'production.dimension'
model.[10].DimensionID}}Dimension : {{model.[10].DimensionName}}
{{/link-to}}</p>
```

**production.hbs**

```
<h2>Production</h2>


{{outlet}}
```

Check the below URl again in browser:

http://localhost:4200/yesterday/to/today

**Redirecting and Loading:**

```
ember g route index
```

**index.js**

```
import Ember from 'ember';

export default Ember.Route.extend({
  beforeModel() {
    this.transitionTo('production', "yesterday", "today");
  }
});
```

```
ember g template production-loading
```

**production-loading.hbs**

```
LOADING!!!
```

copy loading.gif into public/images folder

## production-loading.hbs

```
<div class="centroid">
  <img src="/images/loading.gif"><br>
  Loading Production data...
</div>
```

Update production.js file as below:

## production.js

```
import Ember from 'ember';
const Promise = Ember.RSVP.Promise;
export default Ember.Route.extend({
  model(params){
    /*return {
      "name" : "Tom",
      "age":23,
      "gender" : "Female"
    }*/
    //return Ember.$.getJSON(`/data/production.json?start=${params.start}&end=${params.end}`);
    return new Promise(function(resolve) {
      setTimeout(function() {
        let data = Ember.$.getJSON(`/data/production.json?starts_at=${params.start}&ends_at=${params.end}`);
        resolve(data);
      }, 400);
    });
  }
});
```

## Using Templates Properly

## Loops and Conditions

Change index.hbs file under templates/production/index.hbs

### index.hbs

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>

  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr>
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
          {{row.DimensionName}}
        {{/link-to}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{row.BoardFeetSum}}</td>

    </tr>
  {{/each}}
  </tbody>
</table>
```

### Apply if condition

### index.hbs

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>

  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr class="{{if row.BoardsSum "" "Zero"}}">
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
          {{row.DimensionName}}
        {{/link-to}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{row.BoardFeetSum}}</td>

    </tr>
  {{/each}}
  </tbody>
</table>
```

```
ember install ember-truth-helpers
```

and restart server

```
ember s
```

**index.hbs**

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>

  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr class="{{if (lt row.BoardsSum 10) (if (gt row.BoardsSum 5) "Zero" "") ""}}">
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
          {{row.DimensionName}}
        {{/link-to}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{row.BoardFeetSum}}</td>

    </tr>
  {{/each}}
  </tbody>
</table>
```

Negation can be mentioned with *unless* keyword

```
{{unless (lt row.BoardsSum 10) "Zero" ""}}
```

Apply Boolean value:

**index.hbs**

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>
    <th>{{fa-icon "cogs"}}</th>
  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr class="{{if (lt row.BoardsSum 10) (if (gt row.BoardsSum
5) "Zero" "") ""}}">
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
          {{row.DimensionName}}
        {{/link-to}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{row.BoardFeetSum}}</td>
      <td><input type="checkbox" disabled={{eq row.BoardsSum
0}}></td>
    </tr>
  {{/each}}
  </tbody>
</table>
```

Named Arguments:

**For number formatting use below add-ons**

ember install ember-cli-accounting

ember s → to restart

**index.hbs**

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>
    <th>{{fa-icon "cogs"}}</th>
  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr class="{{if (lt row.BoardsSum 10) (if (gt row.BoardsSum 
5) "Zero" "") ""}}">
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
          {{row.DimensionName}}
        {{/link-to}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{format-number row.BoardFeetSum 
precision=2}}</td>
      <td><input type="checkbox" disabled={{eq row.BoardsSum 
0}}></td>
    </tr>
  {{/each}}
  </tbody>
</table>
```

Create a Helper:

```
ember g helper row-class
```

```
ember s
```

you will be getting row-class.js under helpers/row-class.js

do the below changes

**row-class.js**

```
import Ember from 'ember';

export function rowClass(params/*, hash*/) {
  if (params[0]) {
    var row = params[0],
      class_names = [];
    if (row.Boards === 0 || row.BoardsSum === 0) {
      class_names.push("zero");
    }
    //other conditions

    return class_names.join(" ");
  }
  return '';
}

export default Ember.Helper.helper(rowClass);
```

**index.hbs**

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>
    <th>{{fa-icon "cogs"}}</th>
  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr class="{{row-class row}}">
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
          {{row.DimensionName}}
        {{/link-to}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{format-number row.BoardFeetSum
precision=2}}</td>
      <td><input type="checkbox" disabled={{eq row.BoardsSum
0}}></td>
    </tr>
  {{/each}}
  </tbody>
</table>
```

## Debugging

### log and debugger

**index.hbs**

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>
    <th>{{fa-icon "cogs"}}</th>
  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr class="{{row-class row}}">
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
          {{row.DimensionName.length}}
        {{/link-to}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{format-number row.BoardFeetSum
precision=2}}</td>
      <td><input type="checkbox" disabled={{eq row.BoardsSum
0}}></td>
    </tr>
  {{/each}}
  </tbody>
</table>
```

Add log

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>
    <th>{{fa-icon "cogs"}}</th>
  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr class="{{row-class row}}">
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
          {{log row.DimensionName}}
          {{log row.DimensionName.length}}
        {{/link-to}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{format-number row.BoardFeetSum
precision=2}}</td>
      <td><input type="checkbox" disabled={{eq row.BoardsSum
0}}></td>
    </tr>
  {{/each}}
  </tbody>
</table>
```

Add debugger

It will add break point

```
<table class="table">
  <thead>
  <tr>
    <th>Dimension</th>
    <th>Boards</th>
    <th>BoardFeet</th>
    <th>{{fa-icon "cogs"}}</th>
  </tr>
  </thead>
  <tbody>
  {{#each model as |row|}}
    <tr class="{{row-class row}}">
      <td>
        {{#link-to "production.dimension" row.DimensionID}}
                   {{log row.DimensioName.length}}
        {{/link-to}}
        {{debugger}}
      </td>
      <td class="quantity">{{row.BoardsSum}}</td>
      <td class="quantity">{{format-number row.BoardFeetSum
precision=2}}</td>
      <td><input type="checkbox" disabled={{eq row.BoardsSum
0}}></td>
    </tr>
  {{/each}}
  </tbody>
</table>
```

Use below in console:

1. row
2. get(“row”)
3. get("row").DimensionName