



## \$routeProvider vs \$stateProvider in AngularJs (<https://itexpertsconsultant.wordpress.com/2016/01/25/routeprovider-vs-stateprovider-in-angularjs/>)

POSTED ON JANUARY 25, 2016 ([HTTPS://ITEXPERTSCONSULTANT.WORDPRESS.COM/2016/01/25/ROUTEPROVIDER-VS-STATEPROVIDER-IN-ANGULARJS/](https://itexpertsconsultant.wordpress.com/2016/01/25/routeprovider-vs-stateprovider-in-angularjs/)) UPDATED ON JANUARY 25, 2016 ([HTTPS://ITEXPERTSCONSULTANT.WORDPRESS.COM/2016/01/25/ROUTEPROVIDER-VS-STATEPROVIDER-IN-ANGULARJS/](https://itexpertsconsultant.wordpress.com/2016/01/25/routeprovider-vs-stateprovider-in-angularjs/))



ANGULARJS

### \$routeProvider vs \$stateProvider in AngularJs

See overview and differences between \$routeProvider and \$stateProvider routing modules. Each module has some cons and pros are given below.

#### \$routeProvider :-

It exposes APIs that allow you to define routes for your application. It works on specific URLs to a Controller and assign a Template page. Generally, template page is rendered inside <ng-view> elements on parent page. We can embed URLs in two ways – **ng-href** or href attribute.

#### Html code below :-

```
<ul class="nav navbar-nav">
  <li><a href ng-href="/home">Home</a></li>
  <li><a href ng-href="/contact">Contact</a></li>
</ul>
```

#### Below are basic \$routeProvider Implementation snippet :-

```
1 myApp.config(['$routeProvider', function($routeProvider) {
2   $routeProvider
3     .when('/home', {
4     controller: 'homeCtrl',
5     templateUrl: './static/homePage.html'
6   })
7   .when('/contact', {
8     controller: 'contactCtrl',
9     templateUrl: './static/contactPage.html'
10  })
11 });
```

(<https://itexpertsconsultant.files.wordpress.com/2016/01/routeprovider-1.png>)  
limitation:-

- The Page can contain only one ng-view on Page.
- \$routeProvider doesn't know about Parent/Child relationship.

It's simple and easier to use.

#### \$stateProvider:-

It works similar to \$routeProvider but it purely focuses on **state** rather than URLs. We can leverage a lot of features by using UI-Route provides:-

- You can have multiple `ui-view` on single page
- Various views can be nested in each other and maintained by defining state in routing phase.
- We can have child & parent relationship here, simply like inheritance in state, also you could define sibling states.
- You could change the `ui-view="some"` of state just by using absolute routing using `@` with state name.
- Other way you could do relative routing using only `@` to change `ui-view="some"`, This will replace the `ui-view` rather than checking if it is nested or not.
- Here you could use `ui-sref` to create a `href` URL dynamically on the basis of `URL` mentioned in a state, also you could give a state params in the json format.

Doing this, you have to download **angular-route-ui.js** file.

#### Below have some Html code that defines different routing and routing scope like child and parent relationship.

```
<ul class="nav navbar-nav">
<li><a ui-sref="home">Home</a></li>
<li><a ui-sref="home.listOfBook">Books</a></li>
<li><a ui-sref="home.login">Login</a></li>
<li><a ui-sref="about">About Us</a></li>
</ul>
```

In **about.html** page having two named sections "**columnOne**" and "**columnTwo**" and each section has a Controller and View template attached in angular config (see Javascript) to render the output inside respective `<ui-view>` area.

#### aboutPage.html

```
<div class="row">
  <div class="col-sm-6">
    <div ui-view="columnOne"></div>
  </div>
  <div class="col-sm-6">
    <div ui-view="columnTwo"></div>
  </div>
</div>
```

(<https://itexpertsconsultant.files.wordpress.com/2016/01/stateprovider-html.png>)

#### Below are basic \$stateProvider Implementation snippet :-

(<https://itexpertsconsultant.files.wordpress.com/2016/01/stateprovider-1.png>)

ref :

<https://github.com/angular-ui/ui-router/wiki> (<https://github.com/angular-ui/ui-router/wiki>)

[https://docs.angularjs.org/tutorial/step\\_07](https://docs.angularjs.org/tutorial/step_07) ([https://docs.angularjs.org/tutorial/step\\_07](https://docs.angularjs.org/tutorial/step_07))

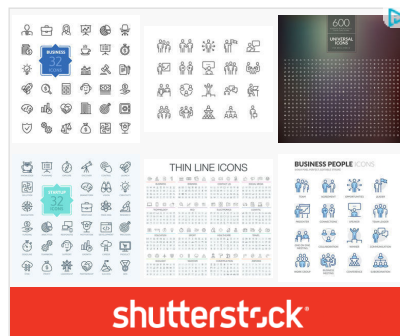
Thanks !!!

```

1 myApp.config(function($stateProvider, $urlRouterProvider) {
2
3     $urlRouterProvider.otherwise('/home');
4     $stateProvider
5
6         // HOME STATES AND NESTED VIEWS =====
7         .state('home', {
8             url: '/home',
9             templateUrl: './static/homePage.html'
10        })
11
12        // nested list with custom controller
13        .state('home.listOfBook', {
14            url: '/listOfBook',
15            templateUrl: './static/booksPage.html',
16            controller: function($scope) {
17                $scope.category = ['Technology', 'Social', 'Game'];
18            }
19        })
20        .state('home.login',{
21            url: '/login',
22            controller: userLoginController
23        })
24
25        // nested list with just some random string data
26        .state('home.contact', {
27            url: '/contact',
28            template: 'This is contact Page.'
29        })
30
31        // ABOUT PAGE AND MULTIPLE NAMED VIEWS =====
32        .state('about', {
33            url: '/about',
34            views: {
35                '': { templateUrl: './static/aboutPage.html' },
36                'columnOne@about': { template: 'Look I am inside column One!' },
37                'columnTwo@about': {
38                    templateUrl: './static/companyOfficePage.html',
39                    controller: 'contactController'
40                }
41            }
42        })
43    });
44
45 });

```

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