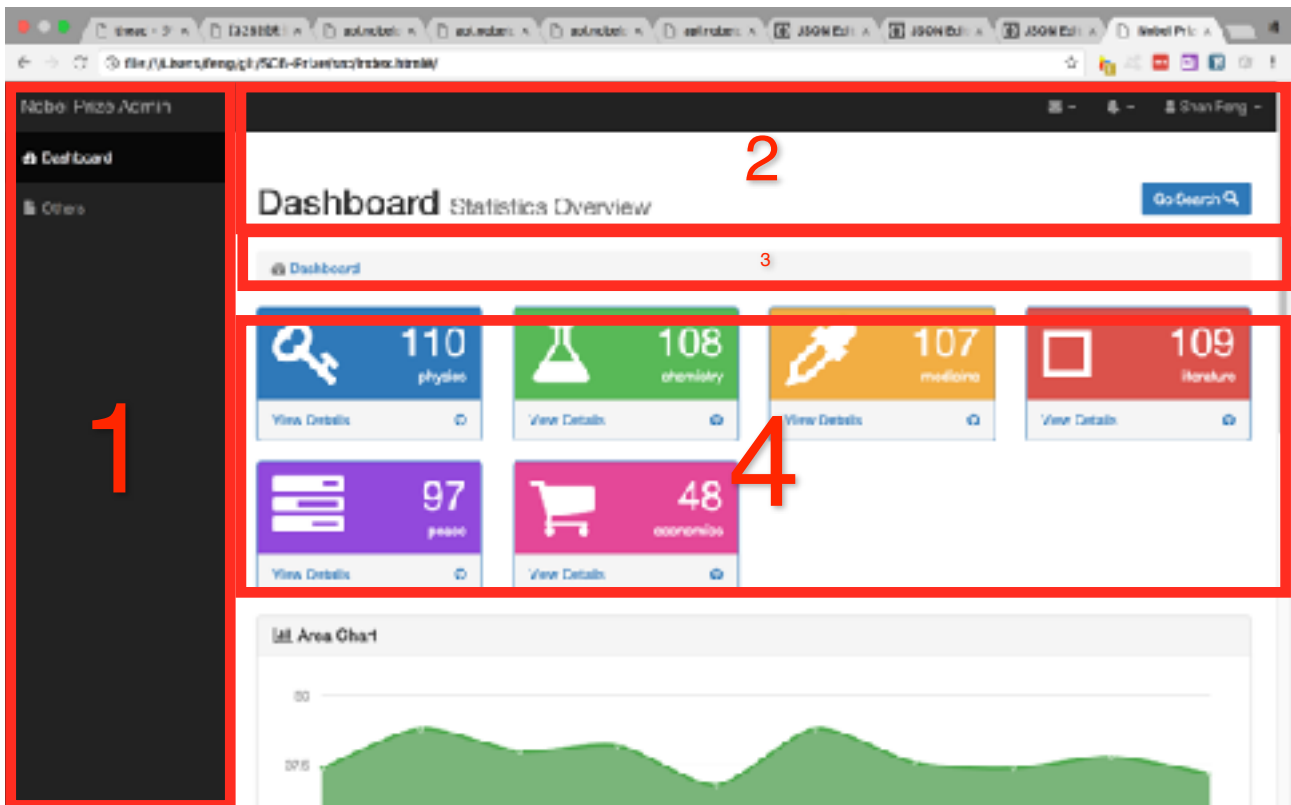


User guidelines

1 How to run application.

Open the index.html file can under the src folder of SCB-Prize then can see the home page.

2 Home Page

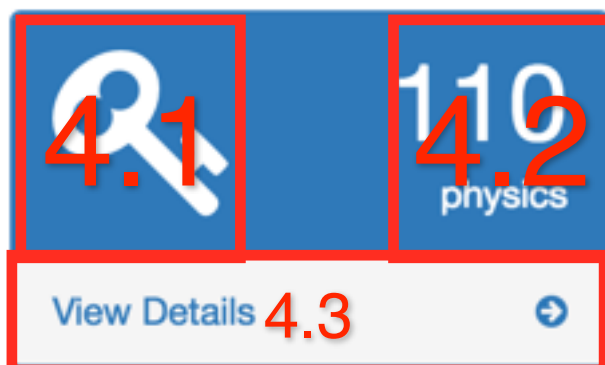


part 1 is left menu , so far only Dashboard menu item is working, others is used for new feature extension. When click Dashboard, will display home page.

part 2 is header area to display current page name . The Go Search button on the right is used for navigating the search page.

part 3 is breadcrumb to track the path.

part 4 is category list view. Please refer to below pic :



Different category view has different color.

Part 4.1 is icon to indicate this category.

The top of part 4.2 is the number of laureates till date. the bottom of part 4.2 is category name;

Clicking part 4.3 area will navigate to Prize List Page.



part 5-8 are not in the scope of requirements, i just add them to display more info from different view for category list and so I just use dummy date, not from json request.

3 Prize List Page

The screenshot shows the Prize List page. A red box labeled '1' highlights the breadcrumb navigation: Dashboard / physics. A red box labeled '2' highlights the main table of laureates.

year	category	name	motivation	share
2016	physics	David J. Thouless H. Duncan M. Haldane J. Michael Kosterlitz	"For theoretical discoveries of topological phase transitions and topological phases of matter"	2 4 4
2015	physics	Takaaki Kajita Arthur B. McDonald	"For the discovery of neutrino oscillations, which shows that neutrinos have mass"	2 2
2014	physics	Isamu Akasaki Hirosaki Amano Shuji Nakamura	"For the invention of efficient blue-light-emitting diodes which has enabled bright and energy-saving white light sources"	2 2 2
2013	physics	Pierre Higgs Peter W. Higgs	"For the theoretical discovery of a mechanism that contributes to our understanding of the origin of mass of subatomic particles, and which recently was confirmed through the discovery of the predicted fundamental particle, by the ATLAS and CMS experiments at CERN's Large Hadron Collider"	2 2
2012	physics	Denis G. Haroche David J. Wineland	"For ground-breaking experimental methods that enable measuring and manipulating individual quantum systems"	2 2
2011	physics	Bart P. Riesterer Brian R. Schmidt	"For the discovery of the accelerating expansion of the Universe through observations of distant supernovae"	2 4

Part 1 is breadcrumb. Can toggle between the categories and results list.
 Part 2 is prize list table. It load all the laureates in the category by year with the latest on top
 The laureate name with a hyperlink that can navigate to Laureate Detail Page.

4 Laureate Detail Page

Laureate Detail

Dashboard / prizes / David J. Thouless

Laureate detail

first name	David J.
surname	Thouless
born	1934-08-21
died	2009-08-08
bornCountry	United Kingdom
bornCity	London
diedCountry	USA
sex	male
gender	male

prize record

year	category	share	motivation	name	city	country
2016	physics	2	"for theoretical discoveries of topological phase transitions and topological phases of matter"	University of Pennsylvania	Seattle, WA	USA

Part 1 is breadcrumb. Can toggle between the categories , results list and the laureate details without having to reload.
 Part 2 is to display detail info of laureate.

5 Search Page

Search Page

Dashboard / Search Page

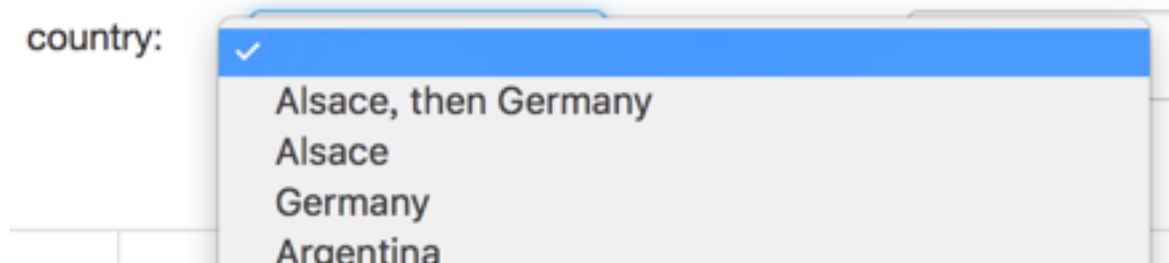
country: <input type='text'/> year: <input type='text'/> end year: <input type='text'/> category: <select value='physics'><option value='physics'>physics</option><option value='chemistry'>chemistry</option><option value='medicine'>medicine</option></select>

year	category	name	motivation	share	country
2016	physics	David J. Thouless F. Duncan M. Haldane J. Michael Kosterlitz	"for theoretical discoveries of topological phase transitions and topological phases of matter"	2 4 4	United Kingdom United Kingdom United Kingdom
2016	chemistry	Jean-Pierre Sauvage Sir J. Fraser Stoddart Ronald H. Feringa	"for the design and synthesis of molecular machines"	3 3 3	France United Kingdom the Netherlands
2016	medicine	Yoshinori Ohsumi	"for his discoveries of mechanisms for autophagy"	1	Japan
2016	literature	Bud Bryant	"for having created new possibilities in the great American song tradition"	1	USA
2016	peace	Jean Manuel Santos	"for his resolute efforts to bring the country's more than 50-year-long civil war to an end"	1	Colombia

Part1 is search condition area which is a search interface to search by Country, year range, categories (multi-select).

Search by Country: Select from country dropdown list which includes all the available countries.

Clear country search : choose the top option which is empty in the dropdown list .

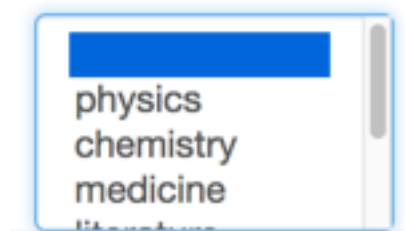


Search by Year Range: Enter year in start year input box as minimum value of Year Range and enter year in end year input box as maximum value of Year Range. Two values are optional.

Clear Year Range search: Clear value in these two input boxes.

Search by categorise(multi-select): Multi-Select from categories list box which includes all the available categories.

Clear categorise search : choose the top value which is empty in the this list box .

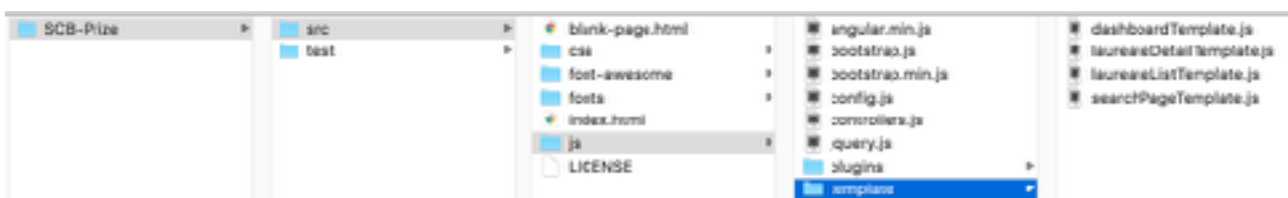


Note: The search interface is created based on angular filter, so no need to click any button or enter any key , will trigger to filter the result if you change the search condition.

Part2 is display search result.

6 Code

1) Code structure.



Use angularjs 1.5.3 and bootstrap css framework which can support responsive UI layout.

All the controller info wrote in the controllers.js

The route config is wrote in the config.js

The used template html are wrote in the *Template.js under the template folder.(It is not a good practice, I will explain at the latter(2) need to improve)

The unit test is wrote in the test folder, as limited time , I only write one test for the one controller by Jasmine.

I use some JQuery plugins to render some charts in order to prove i am familiar with JQuery as well.

2) Need to improve

a. The template issue. As I run the application in my file location, not by web server, in this scenario , cannot load html file by "templateurl" of angular route, only support for loading html string by "template", so I have to convert the related template html to string and store in the js file.

```
function config($routeProvider) {
  $routeProvider.when('/', {
    templateUrl: xx.html
    template: DASHBOARD_TEMPLATE.dashboardHtml,
    controller: 'CategoryListCtrl'
  }).
}
```

```
var DASHBOARD_TEMPLATE = {
  dashboardHtml:
    '<div class="container-fluid">'+
    '<div class="row">'+
    '<div class="col-lg-12">'+
    '<h1 class="page-header">'+
    'Dashboard <small>Statistics Overview</small>'+
    '<button class="btn btn-primary pull-right" ng-click="goSearch()">Go Search'+
    '</div>'+
```

- b. Add angular spinner while loading for better user experience.
- c. Write more unit test code to make sure the coverage high enough.