

Javascript Libraries - An AngularJS Project

Javascript Libraries sample AngularJS project has a variety of rich user interface components designed along with twitter bootstrap v2.3.2 (<http://getbootstrap.com/2.3.2/index.html>) framework capabilities.

Problem vs Solution Summary

#	Problems Asked	Solutions Developed with developer comments
1-3	Adding following fields to Project Model <ol style="list-style-type: none"> AUTHOR CREATION DATE FILE SIZE 	DONE
4	Enable Column level sorting to cycle through - <ol style="list-style-type: none"> ASC DESC NO SORTING 	DONE Implemented with completely new Usability approach with more UI blends.
5	Searching ability on every column field	DONE Implemented free text search match to any/all as well as individual column fields with rich UI .
6	Delete operation on project items list.	DONE Implemented the real time RES-ful service operations to meet CRUD features. All CRUD operations are functional with RESTful architecture using \$resource & \$q PROMISE API. <i>Please Note: Similar functionality can be setup for Cart Items DELETE operation.</i>
7	Implement the CART feature to allow Project Libraries picks using drag and drop API support	DONE (without Drag and Drop) Implemented CART feature nicely with rich UI to allow users with Shopping Cart ability. Presently the application doesn't support Drag and Drop feature but can be achieved with JQuery UI library.
8	Integrate with any charting/visualization library and present the data either based on creation date or file size.	DONE Integrated DevExpress ChartJS (http://chartjs.devexpress.com/Demos/VizGallery/#chart/chartslineandpointseriesline) data visualization library. Please refer the below comments took from ProjectChartController .js file <pre> /* hard coding the data source at the moment * -- In real time scenario we need to use inject the ProjectData service * to this ProjectChartController and use the method getAllProjects() and * transform the PROMISE object to PROJECTS data array.*/ </pre>

Installing and Running the Application (Windows Platform)

#	Tasks	Actions
1	Unzip the Application to your hard drive	unzip the ProjectUsingAngularJS.zip (using zip/unzip utility applications e.g. winzip) to D:\ (or and local drive of your choice) - D:\ProjectUsingAngularJS
2	Starting the HTTP Server.	<ol style="list-style-type: none"> Open command prompt in WINDOWS platform (Start --> Run -> Type In "cmd" + Enter). Change your current directory to C:\ProjectUsingAngularJS Execute the server start batch file <ul style="list-style-type: none"> C:\ProjectUsingAngularJS> server.bat

		Please Note: For unix user execute the <code>server.sh</code> script file.
3	Launching the Application	<p>Open a browser and navigate to below URL http://localhost:8000/ (http://localhost:8000/)</p> <p>You can see the ProjectUsingAngularJS application in action.</p>

Application Structure

About Server

The server is a simple node server that just writes and reads files from the disk in a restful manner. This keeps the entire project self-contained, but it puts some limitations because the server has no logic whatsoever.

1. **ProjectUsingAngularJS\server.bat** - Windows Platform HTTP Server Node start script
2. **ProjectUsingAngularJS\server.sh** - Unix Platform HTTP Server Node start script
3. **ProjectUsingAngularJS\scripts\web-server.js** - Changed web-server.js to respond to HTTP Req methods - GET, POST, DELETE and perform operations on server location hard drive to create/remove files. *Please review the* web-server.js further.
 - a. New Projects files gets created under **ProjectUsingAngularJS\app\data\project**
 - b. Cart Items files gets created under **ProjectUsingAngularJS\app\data\cart\users\1**

Folder Structure

Application files are being structured across different positive angularJS application development guidelines.

- **Services** as Controllers (Business logic resides in Services) under **ProjectUsingAngularJS\app\js\services**
 1. CartData.js
 2. ProjectData.js
 - **Controllers** to meet the dependency injection of components **ProjectUsingAngularJS\app\js\controllers**
 1. ProjectListController.js
 2. NewProjectController.js
 3. EditProjectController.js
 4. ProjectsCartController.js
 5. ProjectChartController.js
 - **Routers** are created to setup Single Page Application (**SPA**). You can locate the router file under **ProjectUsingAngularJS\app\js**
 1. **app.js**
 - **Templates** to meet the presentation partials. Several html templates can be found under **ProjectUsingAngularJS\app\templates**
 1. ProjectList.html
 2. NewProject.html - This same file reused for Edit Project functionality.
 3. ProjectChart.html
 4. ProjectsCart.html
 - **Presentation** is designed with CSS3 capabilities using Bootstrap 2.3.2
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