

## APIS :

#	URI	HTTP Verbs	Description	Request Structure	Response Structure
1	/v1/persons	POST, GET	<p>POST: Creates a new person</p> <p>GET: Gets all persons (admin functionality)</p> <p>Validation Rules while creating a user:</p> <ol style="list-style-type: none"> <li>1. First Name shouldn't be null or empty</li> <li>2. Last Name shouldn't be null or empty</li> <li>3. Email Id shouldn't be null or empty</li> <li>4. Email should be valid.</li> </ol>	<pre>{   "firstName": "Partha",   "lastName": "Sanyal",   "email": "partha.sanyal@email.com" }</pre>	<pre>{   "personId": "00a476d3-c73b-4e6a-b8f0-f61eb6dcac09",   "firstName": "Partha",   "lastName": "Sanyal",   "email": "partha.sanyal@email.com",   "_links": {     "self": {       "href": "http://localhost:8080/v1/persons/00a476d3-c73b-4e6a-b8f0-f61eb6dcac09"     },     "allUsers": {       "href": "http://localhost:8080/v1/persons"     }   } }</pre>
2	/v1/persons/{person-id}	GET	Gets the details of one user		Same as above

3	/v1/projects	GET	<p>Get all projects functionality has not been implemented as a GET on the base URL, there is a filter implementation for that with filter type = ALL. This API just returns the filter option</p>		<pre>{   "_links": {     "filter": {       "href": "http://localhost:8080/v1/projects/filter?type=ALL/OPEN/CLOSED,projectOwnerId",       "templated": true     }   } }</pre>
4	/v1/projects/filter?type=OPEN	GET	<p>Lists all projects that are open for bidding.</p> <p>Other options for type are "closed", "all", anything else for type is invalid.</p> <p>A second filter parameter can be provided as well "projectOwnerId" – the API will then filter out all projects that have a certain Owner.</p> <p>Either of the two parameters "type" or "projectOwnerId" is required in order to filter. Both can be present as well.</p>		<pre>[   {     "projectId": "3324fa18-a9ec-45e6-ae13-7894f14f875a",     "projectName": "project Name",     "projectOwnerId": "cc01f773-96e5-41f3-a0b6-259b0ec40eba",     "requirements": "project requirements",     "maximumBudget": 1000,     "lastDateTime": "2018-02-07T04:53:00Z",     "lowestBidAmount": 0,     "_links": {</pre>

```
"self": {  
  "href":  
    "http://localhost:8080/v1/projects/3324fa18-a9ec-  
    45e6-ae13-7894f14f875a"  
},  
  "projectOwner": {  
    "href":  
      "http://localhost:8080/v1/persons/cc01f773-96e5-  
      41f3-a0b6-259b0ec40eba"  
  },  
  "bids": {  
    "href":  
      "http://localhost:8080/v1/projects/3324fa18-a9ec-  
      45e6-ae13-7894f14f875a/bids"  
  },  
  "filterProjects": {  
    "href":  
      "http://localhost:8080/v1/projects"  
  },  
  "winningBid": {  
    "href":  
      "http://localhost:8080/v1/projects/3324fa18-a9ec-  
      45e6-ae13-7894f14f875a/winningBid"  
  }  
}
```

					<pre>         }     ] </pre>
5	/v1/projects	POST	<p>Create a new project.</p> <p>Validations:</p> <ol style="list-style-type: none"> <li>1. Project name shouldn't be blank</li> <li>2. Project owner Id shouldn't be blank</li> <li>3. Project owner should exist</li> <li>4. Requirements shouldn't be blank</li> <li>5. Maximum budget shouldn't be less than or equal to 0</li> <li>6. Project last date time for accepting bid shouldn't be in the past: You can't create a project in the past.</li> <li>7. Project last date time should be in a zoned UTC ISO 8601 format.</li> </ol>	<pre> {     "projectName" : "project Name",     "projectOwnerId" :         "cc01f773-96e5-41f3-a0b6-259b0ec40eba",     "requirements" : "project requirements",     "maximumBudget" : 1000,     "lastDateTime" : "2018-02-07T04:53:00Z" } </pre>	<pre> {     "projectId": "3324fa18-a9ec-45e6-ae13-7894f14f875a",     "projectName": "project Name",     "projectOwnerId": "cc01f773-96e5-41f3-a0b6-259b0ec40eba",     "requirements": "project requirements",     "maximumBudget": 1000,     "lastDateTime": "2018-02-07T04:53:00Z",     "lowestBidAmount": 0,     "_links": {         "self": {             "href":                 "http://localhost:8080/v1/projects/3324fa18-a9ec-45e6-ae13-7894f14f875a"         },         "projectOwner": {             "href":                 "http://localhost:8080/v1/persons/cc01f773-96e5-41f3-a0b6-259b0ec40eba"         },     }, } </pre>

					<pre>       "bids": {         "href":         "http://localhost:8080/v1/projects/3324fa18-a9ec-45e6-ae13-7894f14f875a/bids"       },       "filterProjects": {         "href": "http://localhost:8080/v1/projects"       },       "winningBid": {         "href":         "http://localhost:8080/v1/projects/3324fa18-a9ec-45e6-ae13-7894f14f875a/winningBid"       }     }   } </pre>
6	/v1/projects/{project-id}	GET	Retrieves the project with the given project id		Same as above.
7	/v1/projects/{project-id}/bids	GET, POST	<p>GET : Retrieves all the bids for a particular project. Produces an array of bids</p> <p>POST : Create a new Bid for a give project (by id).</p> <p>Validations:</p> <ol style="list-style-type: none"> <li>1. Project with the given project id should exist</li> </ol>	<pre> {   "bidderId" : "9cf76335-4ee5-43ee-93dc-718a2ce5ddaa",   "bidAmount" : 789 } </pre>	<pre> {   "bidId": "c8eeb14d-e651-438b-9dbf-1968a6343e81",   "bidderId": "9cf76335-4ee5-43ee-93dc-718a2ce5ddaa",   "bidAmount": 789,   "_links": { </pre>

			<ol style="list-style-type: none"> <li>Project should be open for bidding: the last date time for accepting bids for the project should be in the future.</li> <li>The bid amount should be more than 0 and less than the maximum bid set by the project owner.</li> <li>Project owner id shouldn't be blank</li> <li>Project owner should exist</li> <li>Project owner can't bid for the same project</li> </ol>		<pre> "self": {     "href": "http://localhost:8080/v1/projects/8400b8f1-185a-4cdb-8595-8b8864f2a3b7/bids/c8eeb14d-e651-438b-9dbf-1968a6343e81" }, "bidder": {     "href": "http://localhost:8080/v1/persons/9cf76335-4ee5-43ee-93dc-718a2ce5ddaa" }, "project": {     "href": "http://localhost:8080/v1/projects/8400b8f1-185a-4cdb-8595-8b8864f2a3b7" } } </pre>
8	/v1/projects/{project-id}/bids/{bid-id}	GET	Retrieve a bid by its id and project id		Same as Above
9	/v1/projects/{project-id}/winningBid	GET	After a project has been closed, the scheduler has run, the winning bid is available to view along with other details.		Same as Above