

TASK MANAGER

A simple task manager application has been developed. CRUD and several search operations can be performed through following REST calls.

There are 2 collections maintained in this application namely,
Task,
Category.

Note: All operations via REST-API handled with **header: Accept=application/json**

1.CRUD operation - Task:

URL : <http://localhost:8080/TaskManagement/tasks/>

SNo	Operation	Method/URL	Parameters/ Desc	Sample Request given
1	Create	POST	We can able to create a task	<pre>{ "taskName": "Task A", "category":{ "labelName" : "Label A" }, "priority": "HIGH", "dueDate":15559830000 }</pre>
2.	Read	GET	Get all Tasks	-
3.	Update	PUT	Task Object	<pre>{ taskId: 1, taskName: "Task A", category: { labelName: "Label A" }, priority: "LOW", dueDate: 1555983000000, taskCreationTime: 1556044351390 }</pre>

4.	Delete	DELETE /deleteTask/{taskId}	taskId (id for task table)	http://localhost:8080/TaskManagement/tasks/deleteTask/{2}
5	Insert List of Tasks	POST /insertList	Insert list of tasks	[{ "taskName": "Task B", "category":{ "labelName": "Label B" }, "priority": "CRITICAL", "dueDate": 1556130600000 }, { "taskName": "Task C", "category":{ "labelName": "Label A" }, "priority": "LOW", "dueDate": 1556476200000 }]

2.Search operations - Task:

Method: GET

URL : <http://localhost:8080/TaskManagement/tasks/findTask>

Sample URL:

<http://localhost:8080/TaskManagement/tasks/findTask?priority=CRITICAL&priority=HIGH&label=Label A&label=Label B&task=2&task=3&period=TODAY>

Request Params(All are optional):

1.label = We can able to request list of labels/label(In query also handled)

2.task = We can able to request list of tasks/task(In query also handled)

3.priority = Following options are available

- CRITICAL
- HIGH
- MEDIUM
- LOW

4.period = Following options are available

- RECENT_DATA - will give last 6 hours due date tasks.
- TODAY - will give today's (requesting date from 0 to 23:59:59) tasks.
- YESTERDAY - will give previous day tasks
- LAST_7_DAYS - will give last 7 days tasks.
- NEXT_2_DAYS - will give next 2 days tasks.
- NEXT_7_DAYS - will give next 7 days tasks.

5.fromTime and toTime = If above periods not satisfied fromTime and toTime can be given input should be in milliseconds

Eg:

<http://localhost:8080/TaskManagement/tasks/findTask?fromTime=1555785000000&toTime=1556217000000>

2.CRUD operations - Category:

URL : <http://localhost:8080/TaskManagement/labels/>

SNo	Operation	Method/URL	Parameters/ Desc	Sample Request given
1	Create	POST	We can able to create a label or List of labels at a same time	{ "labelName" : "Label C", "labelDescription": "Description C" }
2.	Read	GET	Get all Categories	-
3.	Update	PUT	Label Object	{ "labelName" : "Label C", "labelDescription": "Description D"} }
4.	Delete	DELETE/deleteLabel?label=Label C	Label name(id for category table) Currently, It will remove corresponding	http://localhost:8080/TaskManagement/deleteLabel/{Label B}

			Task objects also.(We can able to modify if needed)	
5	Insert List of Labels	POST/insertList	Insert list of labels	[{ "labelName" : "Label B", "labelDescription": "Desc B" }, { "labelName" : "Label C", "labelDescription": "Desc C" }]