To Do Application –

Assumptions -:

- User has one todo list.
- He would add, delete, read from that list only.
- Updating an item in the list means that it has been completed ie its state has been changed.
- We have 3 levels of priority.
- 0 being the lowest and 2 being the highest.
- Date filed is the date by which the task is to be completed i.e. deadline of the task.
- Priority of task is defined by the user. Range of priority is 0 to 2. 0 being the lowest and 2 being the highest.

My Approach -:

- I have created the application with the assumption that only one list would be there and all the operations would be carried on that list only.
- I have created a database table in PostgreSQL.
- Database has one table todo. It contains fields like Id, title, priority, date and state.
- The Database is connected with our application and all the operations like reading, creating, updating, deleting and searching would then be carried on using API.

Database Schema -:

Database contains one table names as todo. It has fields like Id, title, priority, date and state.

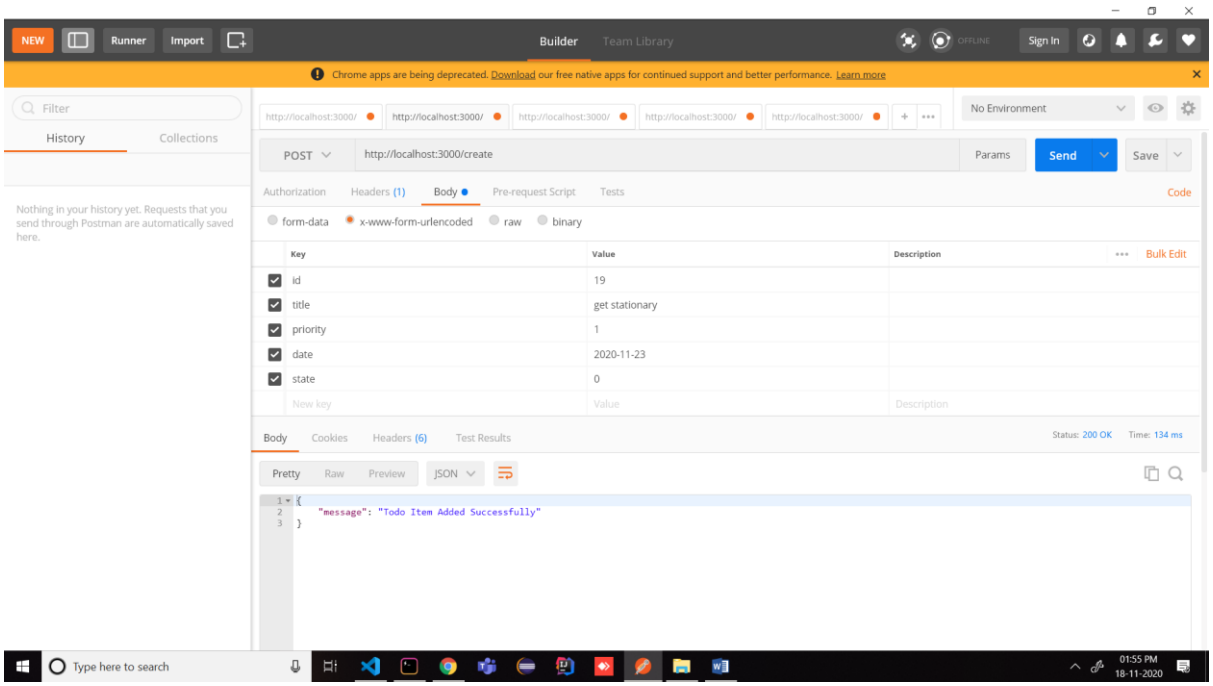
- Id – Id contains unique id of the item that is added in the todo list.
- Title – Title contains the title of the task that is to be done.
- Priority – Priority contains priority of that task. Range of values in priority are (0,1,2) where 0 being the lowest and 2 being the highest.
- Date – Date field contains date of the task it is to be completed before.
- State – State contains whether the task is completed or not. 0 means not completed and 1 means completed.

Steps to run the application -:

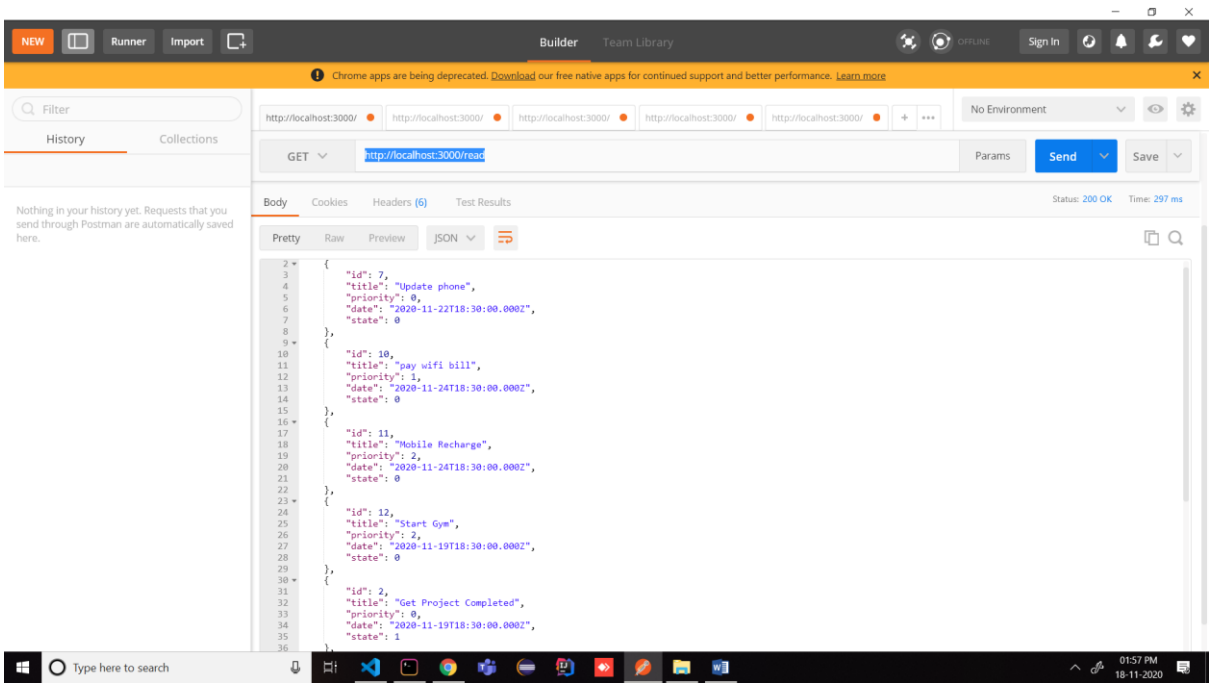
- You can use postman or any simple browser to test the application.
- Download the project files.
- Run “NPM INSTALL” to automatically install the dependencies.
- Download the Database and import the database in your system with postgres.

Proof -:

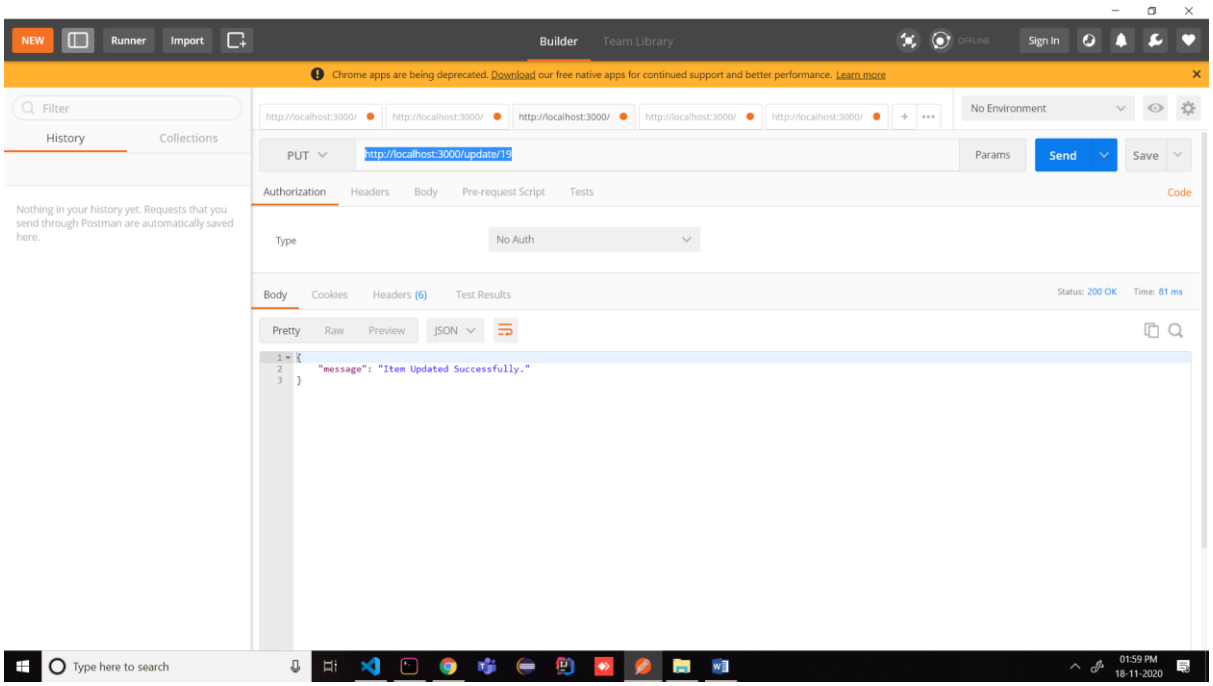
Create a Item using “http://localhost:3000/create“ route and add the body in the request body. Eg in the screenshot.



Read the contents of list using http://localhost:3000/read.

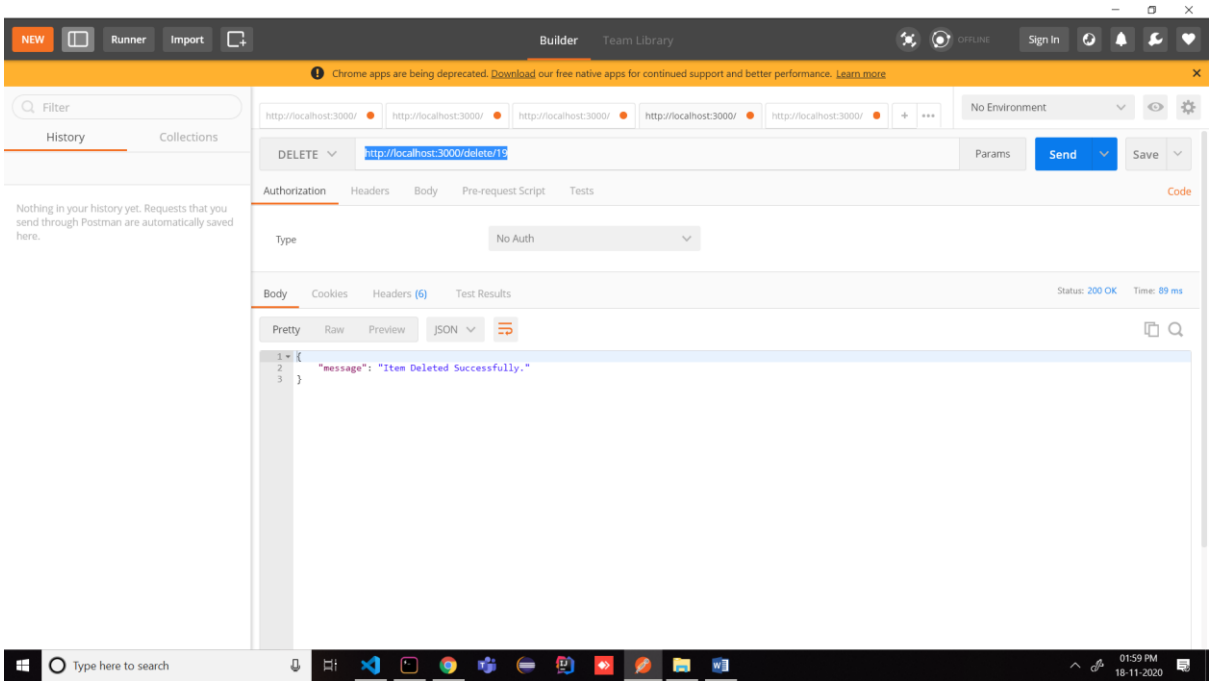


Update the state of any task by providing the id of the task along the api. Eg. http://localhost:3000/update/19. This would update the state of task 19 to completed.



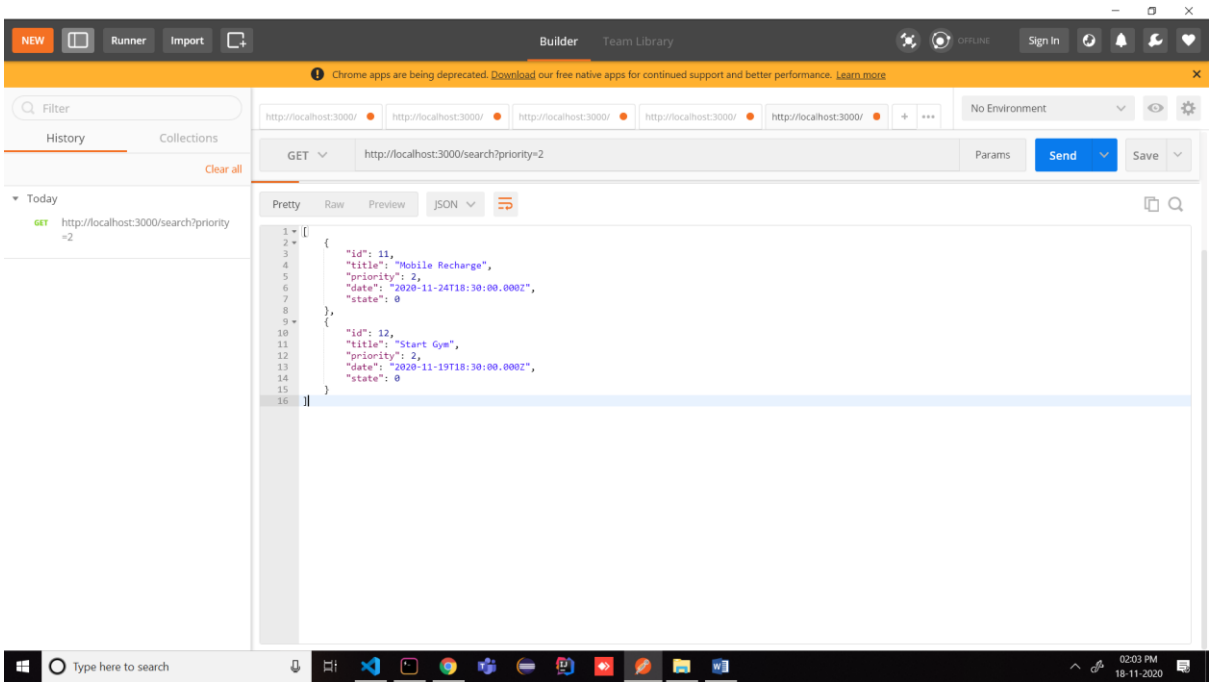
As you have completed task 19, you then need to delete it. You can do that using delete route.

http://localhost:3000/delete/19. This would delete task 19 from the list.



If you wish to search for a particular task using any parameters, you can do that using search route.

"http://localhost:3000/search?priority=2". This would give result for all the task that had priority of 2. In the same way you can search of any specific title, date, priority and state.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GET
http://localhost:3000/search?priority=2
Params
Send
Save
Pretty
Raw
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Type here to search
02:03 PM
18-11-2020