

# PROPOSAL FOR P.SOC 2020(MENTEE)

**Name:** Pratham Goyal

**Email-Address:** w3.goyal@gmail.com

**Contact channel:** +919988841409(Calling), +919988034040(Whatsapp),t.me/PrathamGoyal(Telegram)

**Resume:** [linkedin.com/in/pratham-w3/](https://www.linkedin.com/in/pratham-w3/), [prathamgoyal.tech/cv.pdf](https://prathamgoyal.tech/cv.pdf)

**Blog or personal website:** <https://prathamgoyal.tech/>

**Github:** <https://github.com/TheRealTechWiz/>

**Location:** Chandigarh, India

**Proposal Title:** GitHub Auto-Update

## **Motivation for Proposal:**

The project is based on a real world problem and would have a practical application. Also the idea behind the project is quite interesting. I have already previously worked on MERN stack so it will be easy for me to complete the project. I was able to understand most of the code of the project on github. Also will get to learn new things like using github api and graphql.

## **Goals:**

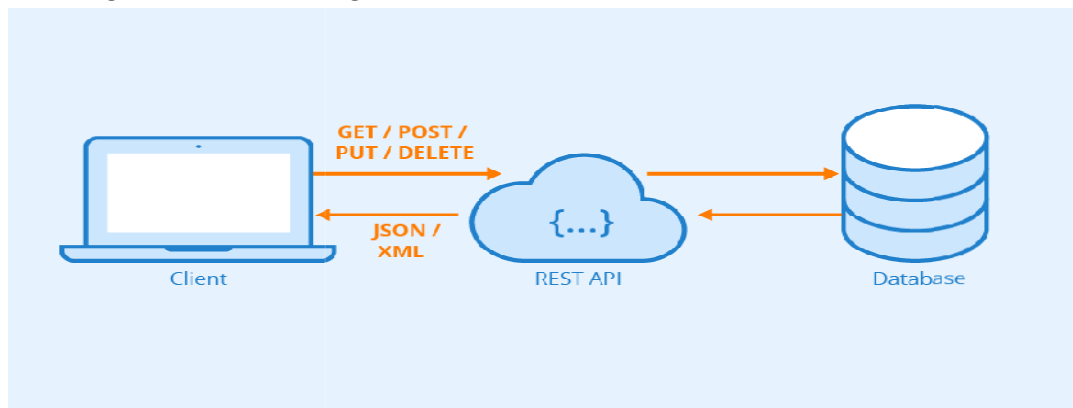
- 1) Understand the current code properly and figure my tasks
- 2) Figure out the things I need to learn and make it's documentation after learning them.
- 3) Figuring Github API and mongoDB
- 4) Getting Data from github API and updating mongoDB with it.
- 5) Making request to mongoDB after a fixed interval.

## **Implementation Details:**

- 1) Firstly I will get familiarized with the code at <https://github.com/Arna-Maity/havoc-v2-rest-api> as I have already worked with node with express most of the code is understandable. Then I will understand the project structure.
- 2) Although I have a basic understanding of restful APIs still I will brush up my concepts of the same.
- 3) I will read about the github API from the documentation at <https://developer.github.com/v3/> and find the APIs that will be useful for this project.

HTTP Method	Action	Examples
GET	Obtain information about a resource	http://example.com/api/orders (retrieve order list)
GET	Obtain information about a resource	http://example.com/api/orders/123 (retrieve order #123)
POST	Create a new resource	http://example.com/api/orders (create a new order, from data provided with the request)
PUT	Update a resource	http://example.com/api/orders/123 (update order #123, from data provided with the request)
DELETE	Delete a resource	http://example.com/api/orders/123 (delete order #123)

- 4) Then I will familiarize with the database at monogoDB atlas. Then try to figure out how to connect github API with mongoDB.



- 5) After the database is getting information about users from github API the task left is to figure out how to store the selected response from github API to the database at some regular intervals.

### Tentative timeline:

- 1) Gather a basic understanding about REST APIs and SPAs. (Week 1)
- 2) Write documentation explaining the understanding of REST APIs & SPAs. (Week 2)
- 3) Familiarizing with the present codebase. (Week 3)
- 4) Familiarizing with GitHub APIs available. (Week 4)
- 5) Familiarizing with API testing tools such as Curl & POSTMAN. (Week 5)
- 6) Develop a top level design for accomplishing the above task. (Week 6)
- 7) Implement the above design in the form of code. (Week 7)
- 8) Write documentation explaining the final implementation of the update mechanism. (Week 8)

### About Me:

I am a 2nd year engineering student from UIET. I am an open source enthusiast who loves learning and exploring new things. I am currently learning web development using MERN stack. Most of my projects can be found at <https://github.com/TheRealTechWiz/>.