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DEPARTMENT OF INFORMATION TECHNOLOGY



MINI PROJECT REPORT
ON
Open Source Project Contribution

B.E. (Information Technology)

SUBMITTED BY

Mr. Ninad Rao (57)
Mr. V Krishnasubramaniam (67)
Miss. Shalaka Waghmare (68)

UNDER THE GUIDANCE OF

PROF. Anil Ahir
(Academic Year: 2022-2023)

**Mumbai University
Vivekanand Education Society's Institute Of Technology,
Mumbai**

DEPARTMENT OF INFORMATION TECHNOLOGY



Certificate

This is to certify that project entitled

Open Source Project Contribution

Mr. Ninad Rao (Roll No. 57)

Mr. V Krishnasubramaniam (Roll No. 67)

Miss. Shalaka Waghmare (Roll No. 68)

have satisfactorily carried out the project work, under the head - Recent Open Source Project Lab at Semester VII of BE-IT in Information Technology as prescribed by the Mumbai University.

**Prof. Anil Ahir
Subject Teacher**

External Examiner

**Dr.(Mrs.) Shalu Chopra
H.O.D**

**Dr.(Mrs.) J.M.Nair
Principal**

Date: 09/10/2022
Place: VESIT, Chembur

LO Mapping

LO1: Understand and apply the basic concepts of Open Source Software.

LO2: Identify the difference between the GPL(General Public Licence) and Contribute to Open Source.

LO3: Apply and evaluate your knowledge for the Contribute to Open Source in different Operating System.

LO4: Apply and evaluate your knowledge for the Contribute to Open Source in different Technologies.

LO5: Apply and evaluate your knowledge for the Contribute to Open Source in different Network Management.

LO6: Apply and evaluate your knowledge for the Contribute to Open Source in different Applications and Services.

Declaration

I declare that this written submission represents my ideas in my own words and where other's ideas or words have been included, I have adequately cited and referenced the original source. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

(Signature)

Mr. Ninad Rao (57)
Mr. V Krishnasubramaniam (67)
Miss. Shalaka Waghmare (68)
B.E. INFT

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Chapter 1

Contribution 1

1.1 Description of the Issue

Repository of contribution: Supabase

The documentation for JWT under Hosting section used a static string value to generate the API key as a sample for the users. But as suggested in the issue 8685, it is a general security practice to always have a random API key generated for usage by applications.

Link to the concerned issue:

<https://github.com/supabase/supabase/issues/8685>

1.2 Code and Output

My solution was to add JavaScript code in the JWT Secret form field, to run on the client side and generate a random string of length 32 characters every time the page is reloaded. After testing the code formatting and running the build tests, a pull request was created for the code owner to review, run tests and merge with the actual code of the website.

Pull request:

Link of the pull request:

<https://github.com/supabase/supabase/pull/8770>

What kind of change does this PR introduce?

Added code to randomly generate a Secret Key for better and secure keys, faster deployment.

Code:

```
const secret = Array.from(crypto.getRandomValues(new Uint8Array(32)))
  .map((x) => x.toString(16).padStart(2, '0'))
  .join('')
```

```
const [jwtSecret, setJwtSecret] = useState(secret)
```

What is the current behavior?

"JWT Secret" field needs a random secret key generator

What is the new behavior?

The form field should display a randomly generated secret key, instead of the static string earlier.

1.3 Conclusion

Thus, the submitted pull request was accepted and merged with the master branch of the repository. The changed/updated code can be seen live on their website at: <https://supabase.com/docs/guides/hosting/overview#api-keys>

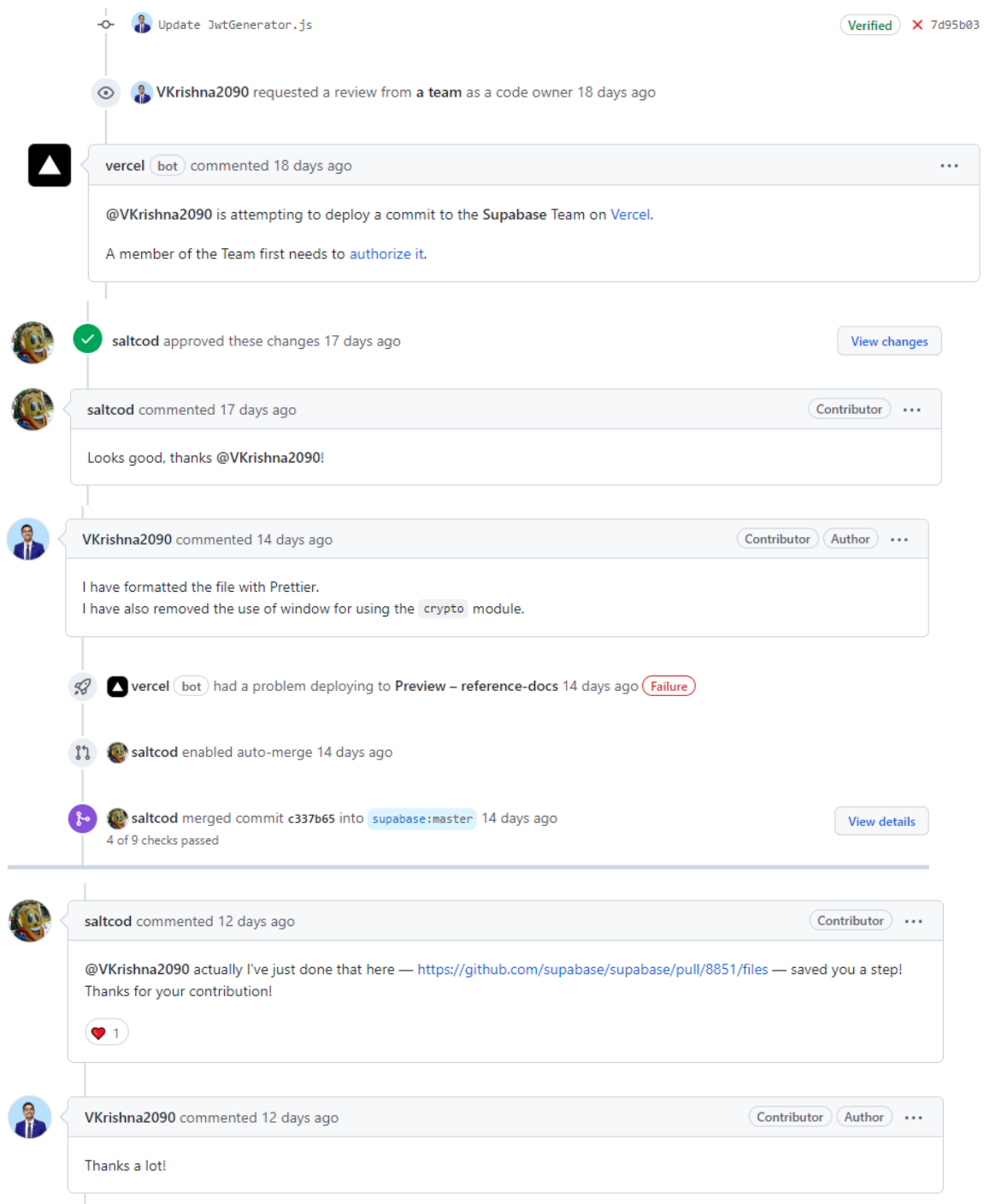


Figure 1.1: Screenshots of the interaction with code owner

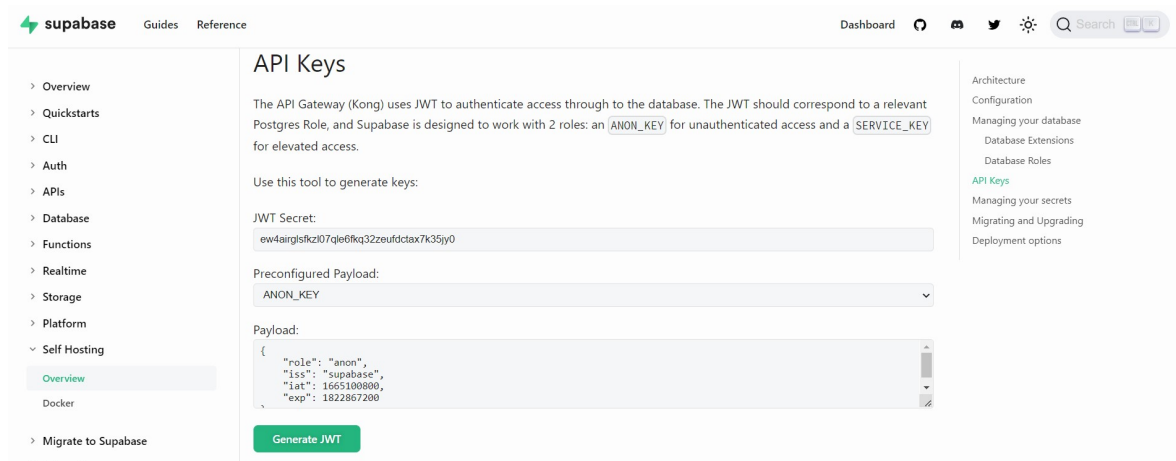


Figure 1.2: Updated website after merging pull request

Chapter 2

Contribution 2

2.1 Description of the Issue

Repository of contribution: Tabler

As tabler is a HTML Dashboard UI Kit for Bootstrap, they had epilepsy-inducing white flashes when the users used the website in dark mode.

Link to the concerned issue:

<https://github.com/tabler/tabler/issues/1172>

2.2 Code and Output

My solution was to add JavaScript code in the base.html file after the body tag.

Changes suggested:

Is your feature request related to a problem? Please describe.

When in Dark mode - clicking on many, if not all, options first flashes short bright white page, then turns into dark mode.

Describe the solution you'd like

When in Dark mode - stay in dark mode. Or fade in. Or something.

Describe alternatives you've considered

Not many out there, true; there is a giant lack of attention to details with modern web "app" developing.

Misc

Tested with Edge and Firefox.

2.3 Conclusion

The submitted changes was accepted and added to the dev branch of the repository.

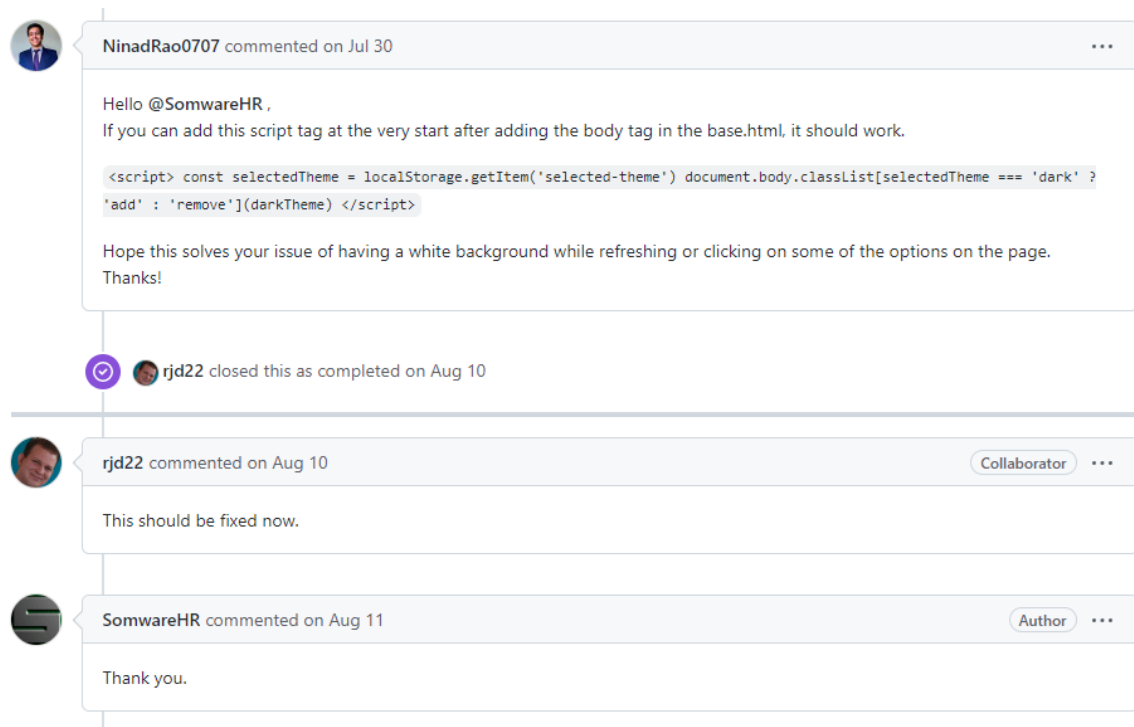


Figure 2.1: Screenshots of the interaction with code owner

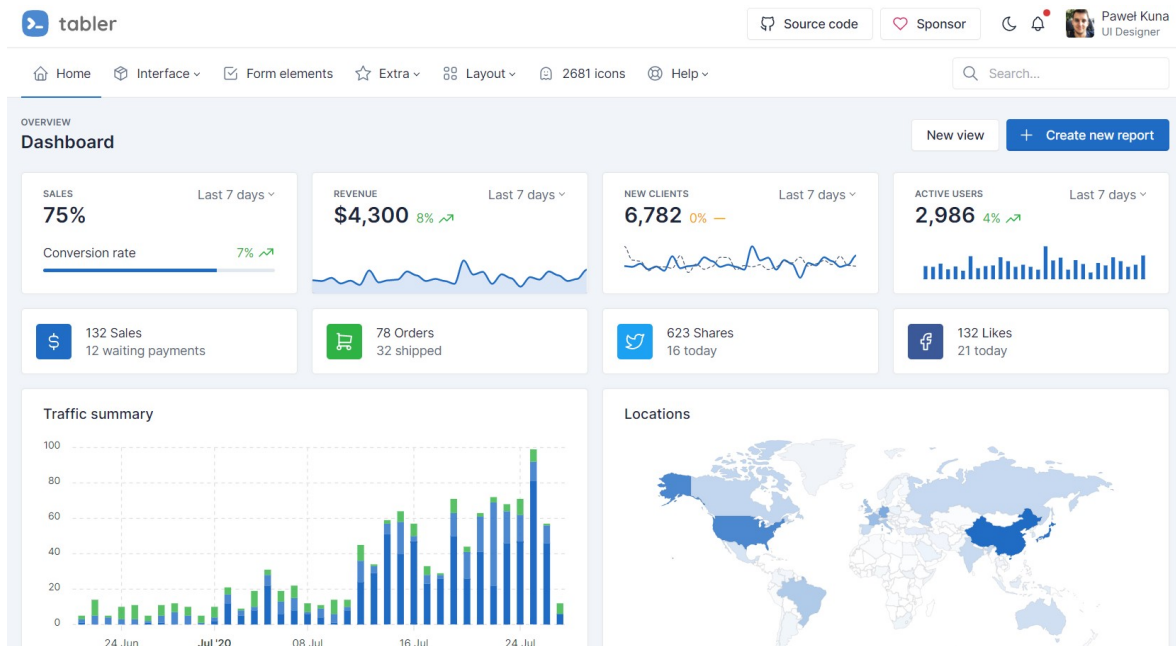


Figure 2.2: Updated website after merging pull request

Chapter 3

Contribution 3

3.1 Description of the Issue

Repository of contribution: Syknapse

We need you to contribute a card just like this one to this project's web page. It will include your name, your Twitter handle, a short description, and 3 links to useful resources for web developers that you recommend.

3.2 Code and Output

Pull request:

Link of the pull request:

<https://github.com/Syknapse/Contribute-To-This-Project/pull/1861>

I've added a Few Missing Resources that could help the community out there

Code:

```
<!-- _____ *Sheldontholic* Contributor card START _____ -->
<div class="card">
<p class="name">Shalaka Waghamale</p>
<p class="contact">
  <i class="fab fa-twitter"></i>
  <a href="https://www.twitter.com/vediCoder03"
    target="_blank">@vediCoder03</a>
</p>
<p class="about">A Vedic Coder</p>
<div class="resources">
  <p>3 Useful Dev Resources</p>
  <ul>
    <li>
      <a href="https://takeuforward.org/interviews/
        strivers-sde-sheet-top-coding-interview-problems/"
        target="_blank" title="First Resource">DSA SDE
        Sheets - Zero to Hero</a>
```

```
</li>
<li>
  <a href="https://github.com/Syknapse/
  Contribute-To-This-Project" target="_blank"
    title="Second Resource">Start Contributing here</a>
</li>
<li>
  <a href="https://hacktoberfest.com/" target="_blank"
    title="Third resource">HackoberFest '22</a>
</li>
</ul>
</div>
</div>
<!-- _____*Sheldontholic* Contributor card END _____ -->
```

3.3 Conclusion

Thus, the submitted pull request was accepted and merged with the master branch of the repository. The changed/updated code can be seen live on their website at: <https://syknapse.github.io/Contribute-To-This-Project/>

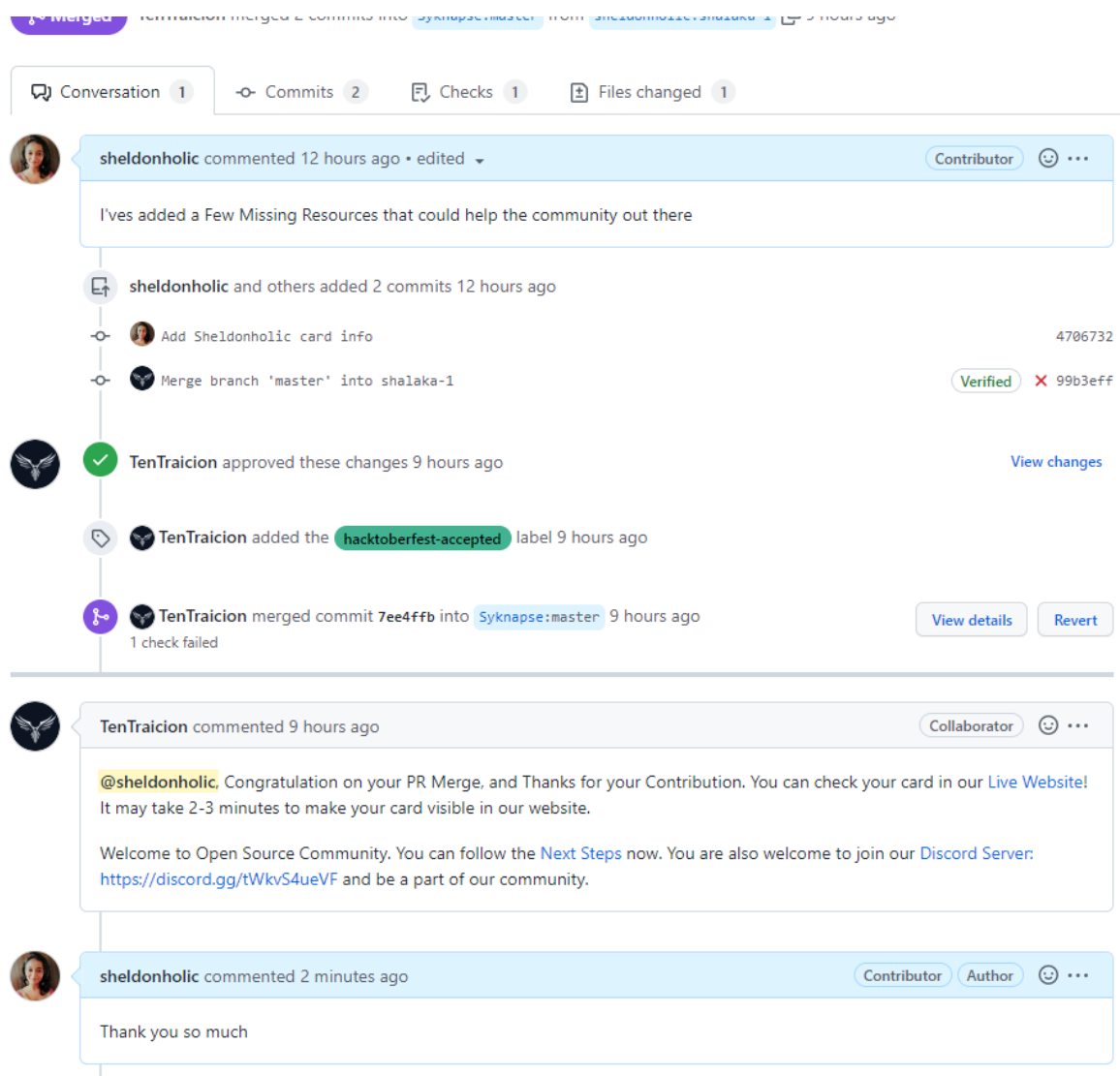


Figure 3.1: Screenshots of the interaction with code owner

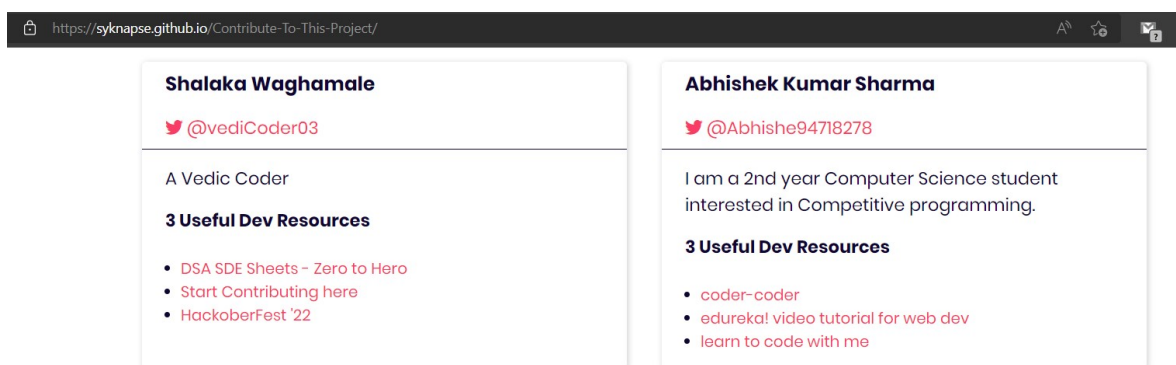


Figure 3.2: Updated website after merging pull request