



DMUN Foundation

Secretariat of the DMUN Foundation
Division on Administrative Management

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DMUN Foundation Web Developer Hackathon

This hackathon is primarily designed to understand your ability to work in a dynamic and a fast paced environment. The pivotal details of the hackathon is given below:

Position: Web Developer

Role category: Part time

Pay: 15USD/Hour (subject to change based on your experience and qualification) - capped at 5hours per week.

Start time:

Time of Submission:

Total Time duration: 6hrs

Submission procedure: share a link encapsulating the code, and well detailed documentation of the approach and the thought process must be demonstrated. A minimum of 7min video explanation of the code, output demonstration and the approach must be present, make sure to explain your understanding and the perspective to the question also. In the documentation to ensure the effect of your code, paste before and after screenshots as well. The

NOTE: This hackathon contains a 10min MCQs session to further understand your knowledge on the tech stack so allocate your time judiciously.
Make sure that there are 7milestones in total. Have fun coding!

Milestone 1: Case Study, Analysis and Attention to Details

Please go through our current website to get a hold of what the current pages are and the elements present in these pages to get the knowhow of the current implementation.

Website: <https://www.dmun.org/>

Strictly based on the overall holistic view of the website, you are expected to point out the parts and the sections of the website that you think would intrigue the user/customer. In addition, point out the gaps in this website that you find and analyse other MUNs' website to understand the places where we could do better and how the same could be achieved.

Goal: To enable the candidates to view the problem given to them with a perspective blend with tech and Model UN.

Milestone 2: Footer Enhancement

This is the Repository link: <https://github.com/Atharvsingh112/DMUN-Foundation.git>



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Download the files from the aforementioned repository and attempt the milestones. In this milestone you are expected to redesign the footer of the website so that it looks professional, compact. Ensure that all the content must be preserved while performing this reorganization. Ensure all device compatibility of the footer. Feel free to use React and CSS for this task.

Milestone 3: Overall Layout enhancement

3)a) Currently DMUN has a full page menu layout, this might overwhelm the user when with the plethora of options they could interact with. Restructure the layout and the formatting appropriately.

3)b) Add a separate page as DMUN Executives login with the ability to add new users by a single administrative head, the administrative head must be able to add the users using UI. The login page must be authenticated using email (with @dmun.org domain only). In addition the administrative lead must be able to assign a co-lead whose privileges can be revoked. Both the personals must have the ability to assign general message and work An example instance:

Note: the names such as lead and co-lead are just hypothetical names that would assist you to understand the intended action.

Mr Jaewon Choi - Founder & Executive Director (Lead)

Mr Harshan M V - Deputy Executive Director (Co-Lead)

Mr Ishaan Bajaj - Programs Associate

Mr sample person - sample role

Lead would be able to send static messages to the others, reassign Co-Lead position from Harshan M V to say Ishaan Bajaj etc and vice versa should not be possible.

Co-Lead can also send static messages and alerts to the others.

Other users can only login and view the message. If time permits you can add an ability for the person to respond to a button based response - yes/no/maybe discussion needed.

Note: Proceed to the enhancements of Milestone 3)b) after you have completed the task mentioned in the question.



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Milestone 4: Documents Draft Assistant

Take a look at the GMUN Rules of Procedure to evaluate the drafted documents. Take any one of the documents- Position Paper, Op-Eds, Working Paper, Draft Resolution etc and based on the description tell us your understanding of the rules governing this document and enforce those rules and provide constructive feedback. For instance, if you are selecting Position Paper, then you are expected to do the following:

1. Understand the rules governing it.
2. Tell us your assumption on the rules (it is totally fine if you don't understand the exact rules but your assumptions must be implemented without flaw and it is expected that your assumptions show some level of correspondence to what the document means).
3. The delegate(user) will upload the document and the assistant must evaluate it based on the criteria set and return the constructive feedback and a score.

Link for the ROP: <https://www.globaldiplomaticmun.com/conferences/gdmunhc-2024/guides>
(Click on GDMUN ROP in the above link to access the document)

An extra mile: you can make sure to add the functionality to handle if different file formats as well!

Milestone 5: Add a new page - Executive leadership

Inspire us on how you would attach the pictures, description and the links of the DMUN Foundation staff in a separate page.

Milestone 6: Search Enhancement

Currently understand how the search option works and implement a technique that ensures it is able to get the details not just with word by word matching rather, it must be able to understand the user's intended meaning and deliver the results. If possible, handle the typos as well.

Milestone 6: Rule Based Site Orchestration (Advanced)

Add a simple rule based rendering of the website that changes the layout based on the rule that is uploaded by the Lead. Based on the type of user the website must be rendered. For instance, if the user is a delegate then there could be promotional banners popping up for the next latest conference etc, or if it is a parent then the website could modify some wordings and say help your child/ward gain command over English and public speaking.



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NOTE: You are free to imagine and assume the changes for each of the roles. Make sure to specify your assumptions clearly

Brownie Milestone 7 - Visual Theme Exploration (*separate, original repo only*)

Do not combine with other milestones. Start from the untouched original repo. Propose an alternate visual expression that reflects DMUN's inclusivity ("every voice is heard and respected") via color choices, spacing, type scale, and layout rhythm.

Milestone 3)b), 4 and 6 are of pivotal importance.

Test Link: [DMUN Foundation Web developer Recruitment Test – Fill out form](#)