#### **Overview**

Your task is to create an application that allows users to design and implement an email marketing sequence using a visual flowchart interface. This project will utilize the MERN stack (MongoDB, Express.js, React, and Node.js) and the [React Flow](https://www.npmjs.com/package/reactflow) library for the frontend flowchart interface while using [Agenda](https://github.com/agenda/agenda) & [Nodemailer](https://www.nodemailer.com/) for the backend.

**Task 1 (FrontEnd):**Must Use library: [ReactFlow](https://reactflow.dev/)

Use [ReactFlow](https://reactflow.dev/) library to create an interface where the users can add and remove Nodes for the following:

* Cold Email
* Wait/Delay
* Lead Source

It should work exactly as outlined in this VIDEO -> <https://drive.google.com/file/d/1-CYNFmZIQMT_mJ8kqnuhED-GEf0yzTh9/view?usp=drive_link> (no audio)

The flowchart should be saved and based on the time of saving & Wait/Delay Nodes, emails would be scheduled & sent.

**Task 2 (Backend):**

Must Use libraries: [Agenda](https://github.com/agenda/agenda)**,** [Nodemailer](https://www.nodemailer.com/)

Create a [POST] API where time, email body, subject and an email address can be requested.

On hitting the post request, use [Agenda](https://github.com/agenda/agenda) to Schedule an email to be sent after 1 hour.

Emails can be sent using [Nodemailer](https://www.nodemailer.com/)

#### **Bonus Points for:**

* Adding Authentication
* Writing Unit Test Cases
* Adding Relevant Comments
* Setup Documentation

#### **Evaluation Criteria**

* Functionality: The application meets all the listed requirements.
* Code Quality: Clean, modular, and well-documented code.
* User Experience: Intuitive and user-friendly interface.
* Scalability: The application architecture and database schema design consider future scalability.
* Creativity: Innovative solutions and features that enhance the application.

#### **Submission Guidelines:**

* Video of functioning Application
* Link of public github repository with code
* Link of Live Projects & APIs by deploying on Free Server (render.com, vercel.com etc)
* Your Updated Resume

Email us with the above at [careers@futureblink.com](mailto:careers@futureblink.com)

Note: Use of ChatGPT or any other AI/LLMs to complete this task will result in immediate rejection

**Example on SalesBlink where this can be done already:**

<https://run.salesblink.io/signup>

<https://help.salesblink.io/en/articles/9080591-sequence-creator>

**Useful Resources**:

<https://reactflow.dev/learn>

<https://github.com/agenda/agenda>

<https://www.nodemailer.com/usage>