Overview:

You are tasked with building an API using TS and Node.js. This API will accept an image, process it through a 3D rendering model using a third-party service (you can find AI models on Replicate), and return a rendered 3D image based on the input sketch.

Don't spend too much time on the AI portion of the task you will not be assessed on it heavily, your goal is to integrate with a 3rd party API, showcase your research skill, and have 3 sentences justifying we you picked this specific model

Primary Objectives:

API Development:

 Develop an API using Node.js. The API should accept image uploads. Integrate with a third-party service (e.g., Replicate) to convert the uploaded image into "3D render" image. Ensure the API returns the rendered image as a response.
Asynchronous Processing:
 □ Demonstrate handling of asynchronous operations efficiently. □ Ensure smooth integration with third-party services without blocking the main thread.
Unit Testing:
☐ Write comprehensive unit tests for your code.☐ Ensure that all major functionalities are covered by tests.
Documentation:
☐ Provide detailed documentation for the API.

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☐ Include setup instructions, API endpoints, usage examples, and any other relevant information.
☐ Document your thought process, design decisions, and challenges faced.
Code Quality:
☐ Your code should be clean, well-organized, and follow best practices.☐ Ensure that the code is easily readable and maintainable.
Submission Guidelines:
 Submit your code in a zip file or provide a link to a GitHub repository. Include a README file with detailed instructions on how to set up and run your API. Ensure that all dependencies are properly listed and easy to install.
Evaluation Criteria:
☐ Functionality and correctness of the API.
☐ Efficiency and handling of asynchronous operations.
Quality and coverage of unit tests.
Clarity, thoroughness, and organization of documentation.
Code readability, structure, and adherence to best practices.