# Full Stack Developer Technical Challenge: Doctor's Dashboard for Felix Vita

## Context:

Felix Vita is an innovative health assistant platform designed to help users manage their health through personalized recommendations based on omics tests, symptom logging, goal setting, and elimination diets. Felix Vita's core product is focused on preventive care and aims to empower users to take control of their health journey through informed decisions powered by AI and analytics. The platform connects users with primary care doctors, functional doctors, and insurance companies to provide a holistic health management experience.

## Objective:

Implement a basic feature that facilitates a web application/dashboard for primary care doctors and functional doctors. This dashboard should enable doctors to recommend Felix Vita to their patients, see the list of associated users and their health statistics, and send messages of encouragement. Additionally, it should provide a detailed view of patient progress in lab tests and omics tests.

## Requirements:

### Frontend Implementation:

1. **Dashboard Interface:**
   - A responsive dashboard interface using a modern frontend framework (e.g., React, Vue.js, Angular).
   - A section for doctors to recommend Felix Vita to their patients via email or a direct link.
   - A list of users associated with the doctor, displaying summary statistics such as inflammation markers and an overall health score.
   - An option for doctors to view detailed progress for each user, including lab test results and omics data.
2. **Messaging Feature:**

- Allow doctors to send messages of encouragement to users. These messages should be visible in the user's app (You don't need to build the app implementation)
- Doctor's can view the user's reply on their web application

## Backend Implementation:

1. **API Development:**
   - Develop a simple RESTful API to handle data submission and retrieval.
   - Endpoints for retrieving user statistics, sending messages, and accessing detailed user progress.
2. **Database:**
   - Use a lightweight database solution (e.g., SQLite, MongoDB, PostgreSQL) to store user data, messages, and health statistics.

## Additional Features:

1. **Authentication:**
   - Implement basic authentication for doctors to securely access the dashboard.
2. **Data Analysis:**
   - Basic logic to retrieve summary statistics (e.g., inflammation markers, overall health score) from user's data in database.

You can use the following Figma wireframes and prototype designs for inspiration, but feel free to challenge and improve upon them.

FIGMA Wireframes:
https://www.figma.com/design/a7w0hhu8tmxd31zQka0sIX/Felix-Vita?node-id=5055-11326&t=Js1ZBg4eo5iAm208-1

Prototype Designs:
https://www.figma.com/design/a7w0hhu8tmxd31zQka0sIX/Felix-Vita?node-id=5051-81127&t=Js1ZBg4eo5iAm208-0

# Deliverables:

This challenge is designed to be completed in 4 hours. If you find that additional time is needed, please provide an explanation of your thought process and recommendations for addressing the remaining aspects of the challenge.

## Code Repository:

- Share a link to a public or private repository (e.g., GitHub) with your implementation.
- Include clear instructions on how to set up and run the project locally.

**Documentation:**

- Include a README file in your repository with the following information:
    - Project overview
    - Instructions for setting up the development environment
    - Description of the data analysis logic

# Evaluation Criteria:

1. **Functionality:** The solution meets the requirements and performs as expected.
2. **Code Quality:** The code is clean, well-organized, and follows best practices.
3. **User Experience:** The dashboard is user-friendly and responsive.
4. **Documentation:** Clear and comprehensive documentation is provided.

# Freedom to Innovate:

You have the freedom to make decisions on any aspects not explicitly specified in the challenge. Feel free to choose the technologies, tools, and methods that you are most comfortable with and that you believe will best showcase your skills and approach.

Good luck! We look forward to seeing your technical expertise and innovative approach to building this feature for Felix Vita.