

Backend Engineer recruitment problem

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Assignment description

Task

1. Please summarize the db table required for the system, the response json data of the required api, and their connections in a diagram.

2. Please develop the backend of the system

Please use one of the following development languages

· .NET 8 ~ 10 (C#)

· Typescript

supplement

- If you can't finish the implementation in time, decide on the scope and write a quote for the undeveloped parts. Even if there is a part that is not implemented, please make sure it works.
 - Please develop on the assumption that it will be connected to the front end.
 - For an overview of the front-end design, please refer to [Application Specifications/Overview]
- Working hours Work according to the following

Working hours

Work according to the following guidelines

- Estimated work time: 8 hours
- Maximum working time: 16 hours

Submission

Please submit a zip archive of the Git repository folder.

Please observe the followings when archiving the zip:

- Include the git folder in the zip
- Delete all files not under git control

*Please do not share as a public repository.

Please take photos and record videos of the results for the following items and submit them together with the output.:.

	Item	How to Present
1	DB and API Diagrams	Diagram Images
2	Testing of Main API	Record a video of using Postman/Swagger or the terminal
3	Sample Data	Take photos or record a video of adding/ editing/ deleting in the database
4	How to Run the System	Description in the README
5	If There Is a Mock UI	Screen recording of the presentation

Application Specifications/Overview

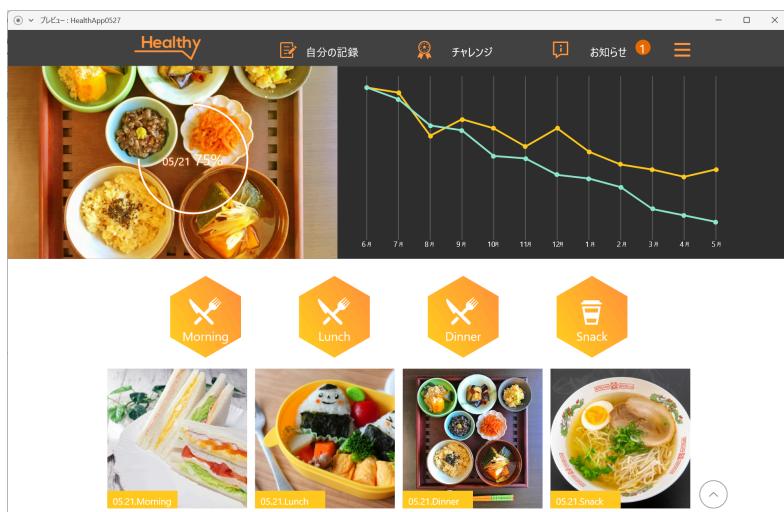
A web application for health management.

The design is in the figma here.

https://www.figma.com/file/7qqT3dvv5OagaRIUFK01vB/HealthApp_1203

Top page

This is the top page after login.



The outline of each display is as follows.



日付・達成率

Date/Achievement rate

体重・体脂肪率グラフ

Weight/Body Fat Percentage Graph

入力へ遷移するボタン

Button to transition to input

食事履歴

Meal history

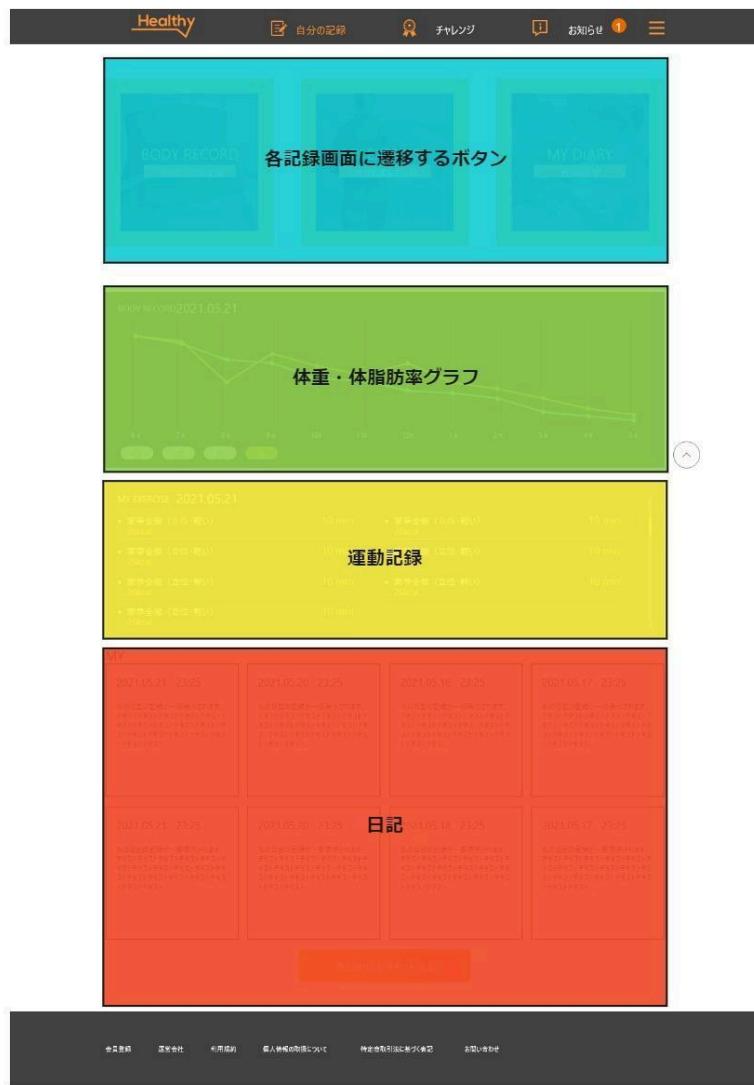
My record

This page displays your own records.



The outline of each display is as follows.

The outline of each display is as follows.



各記録画面に遷移するボタン

Button to transition to each recording screen

体重・体脂肪率グラフ

Weight/Body Fat Percentage Graph

運動記録

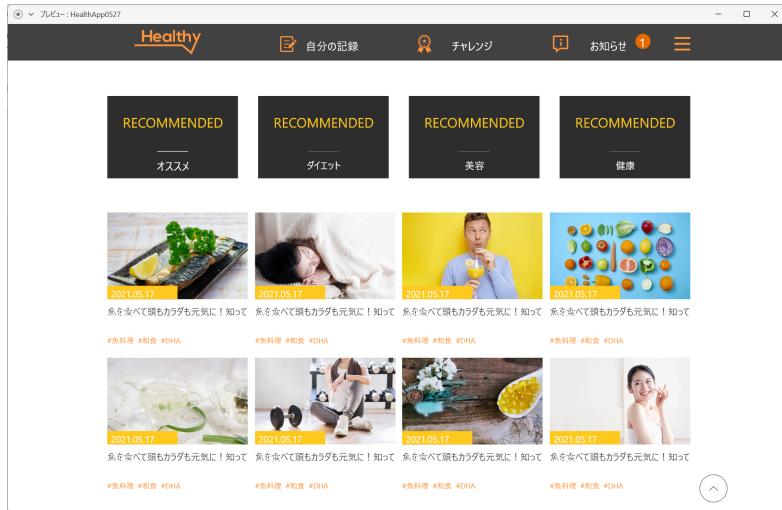
Exercise record

日記

Diary

Column page

This is the page of the column about health. You can view it without logging in.



Evaluation criteria

We review submissions by noting the following

- Clarity
 - Does the README clearly and concisely describe the problem, solution, and verification procedure?
 - Is the diagram easy to understand for other related developers such as front desk and infrastructure personnel?
- Code quality
 - Is the split appropriate?
 - Is the code simple, easy to understand, and easy to maintain?
 - Does your coding style match the language's guidelines?
 - Are you consistent in your codebase?