Dear Intern,

We are looking to hire you, if you who have the following qualities
- **Smart**: You have a strong technical foundation and use it to solve a variety of technical problems. You are willing to learn and grow.
- **Passionate**: Your passion aligns with the work we do at Flexmoney.
- **Independent mindset:** You not only execute well but are also thinking and sharing ways in which we can get better as a company.
- **Humble**: We don't want ego to come into our discussions and debates.

As a part of the interview process, you are expected to complete an assignment as the first step. We will be judging your assignment for the qualities mentioned above along with the following technical skills.
- Problem solving skills
- Database designing skills *
- Code architecture (structuring and implementation)

*Please Note that you are expected to learn Database Schema Design if you do not know it already and make sure that you attach the Entity Relationship (ER) diagram and table SQLs along with the solution.

You can take up to **2 days** to solve this.

We expect that you will follow the honour code. Specifically, we expect all the work you submit is done by you and you only. You are free to use any online resources for all your research and exploration.

Problem Statement:

Assume that you are the CTO for the outsourcing firm which has been chosen to build an admission form for the Yoga Classes which happen every month.
Requirements for the admission form are:

- Only people within the age limit of 18-65 can enroll for the monthly classes and they will be paying the fees on a month on month basis. I.e. an individual will have to pay the fees every month and he can pay it any time of the month.
- They can enroll any day but they will have to pay for the entire month. The monthly fee is 500/- Rs INR.
- There are a total of 4 batches a day namely 6-7AM, 7-8AM, 8-9AM and 5-6PM. The participants can choose any batch in a month and can move to any other batch next month. I.e. participants can shift from one batch to another in different months but in same month they need to be in same batch

Implementation details:

You will be building a simple form in **React (preferably or any basic frontend language)** to accept the details from user and make a call to a **REST api** (in any backend language) which does the following:

- Accepts the user data, does basic validations
- Store the data in database **(please provide the ER diagram for the database design)**
- Assume that you have a mock function named **CompletePayment()** which accepts the details of user and payment and does the payment for you. **You don't need to implement it.**
- Return the response to front-end depending on the payment response from **CompletePayment()** function
- Do host your solution on free cloud hostings like Heroku, Netlify etc. or containerize the application
  - If you plan to use Heroku, check out the Student Pack GitHub Student Developer Pack Offer | Heroku
- Upload your source code, along with the ER diagram and any other supporting material, on Github and add a README file explaining your approach, any assumptions you made.
- Please ensure both the hosted solution works, and the Github URL is **publicly accessible**
- **Important**: Once the assignment is finished, please fill this form to complete your submission
  https://docs.google.com/forms/d/e/1FAIpQLScZW5icBWrorvp5q0W9mYuxLc_zVWpZ-mC0fCPHDwcQI0GPPQ/viewform

Any assumption made should be clearly stated. If learning React or any backend language is difficult then you can choose any language of your choice. Main focus should be on solving the problem.

Above & Beyond: (Optional)
There is a lot of room for you to show-off your skills. You can put on your thinking cap and submit solutions and features that you believe in. If you possess certain expertise, this could be the place to showcase it.

        Eg:
1. Containerize the application to make it cloud native.
2. Use algorithms which improves the performance of the system.
3. Clear and Attractive documentation for anyone to quickly understand
4. Design a highly scalable application
5. Design Cloud architecture, etc.

Doing this is optional. We advise you to prioritize accordingly. Whatever you choose to do, please ensure that you document it well.

For any queries, you can reach out to careers@flexmoney.in

PS: In case you need more time, do inform us about the same in advance.