



As agreed, here is your assignment. I expect you to submit your implementation for the below stated problem by next **Sunday 11/17/2023.**

You are required to create an application to manage bank loans. The bank should receive funds from loan providers and be able to lend its customers within the limit of total funds. A user should be able to login to the system through a username and password. You have 3 user roles that you need to account for:

**Description:**

- **Loan Provider:** Should represent the total budget of the loans
- **Loan Customer:** Should represent the loan, loan's term and the loan's amount
- **The Bank Personnel:** Should define max and min amounts, interest rate, duration for each loan

**Endpoints:**

**Loan Providers:**

- View status of loan fund applications.

**Loan Customers:**

- View status of loan applications.
- Make payments for his loans

**The Bank Personnel:**

- View applications from loan providers and customers and be able to approve.
- The system should always make sure that the total loans should not exceed the total funds.

**Minimum delivery**

- This has to be done in Django
- An api has to be available using Django Rest Framework



- Make user interface through Django admin
- Create unit test cases for your functionalities

### **Proper delivery**

- Create a user interface using vuetify.js or react

### **What do we want to measure:**

- How fast can you ramp up a new framework?
- How will you deal with financial data? (calculation and presentation)
- Many details are left to see what will be your judgment on them:) nasty incomplete requirement stuff :)
- How will you manage access control (very easy in Django)
- Will you only be able to deliver a compute engine or can you deliver a clean UI
- It is ideal that you can deliver your UI in modern framework like Vuetify

**Note: the requirements provided are intentionally high-level and a bit vague. You are required to draw some assumptions for anything that is not stated above and you need to be able to build the application, but you need to state your assumptions very clearly (please provide that as a separate document). Do not consider assumptions that contradict any of the above.**

You don't need to finish all the features. This is intentionally long, to see how far you can reach.

Let us know when you are done and we can arrange for the next step.

Thanks,