Loan Offer Engine:

The logic is implemented in the way to maintain the user’s credit score while adjusting the loan amount and loan period to reach maximum possible loan amount. The app examines different parameters to reach maximum amount. The decision regarding the logic implementation is made taking into account given upper and lower bound of loan parameters.

For complex ruling in real world possible solution are Bizagi API and Drools rule engine to take care of complex ruling in context loan application parameters.

Backend: A minimal web server using java (spring boot) exposed with one endpoint has been implemented to demo the working of application in the front-end. In additional swagger has been configured to test the endpoint.

Front-end: A component driven front-end based on react.js has been implemented with loan inputs to show the inner workings of loan application. Configuration with tailwind has been configure in front-end to apply basic styling to the components.

Also noticed altenative pattern while user having modifier of greater 300 return output of 1000 so could be used to further optimize solutions.

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