

FullThrottle Labs

Objective: To create a loan calculator which allows the user to input the loan amount and loan duration and accordingly displays the interest rate, monthly payment and the amount they need to pay.

UI design:

- Initially placed a slider for the user to choose the amount, they can borrow. (Kept the limit between \$ 500 and 5000 as specified).
- Thereafter, placed input boxes for the user to enter the amount and duration for which they desired the loan.
- This was proceeded by placing a click button which in turn would call the test API provided, <https://ftl-frontend-test.herokuapp.com/interest?amount=900&numMonths=7>
- Finally, the result from the API was displayed on the fields, interest rate, monthly payment and the amount they need to pay, respectively.

API details displayed using Ajax:

- The first step was to split the provided API into static and dynamic contents.
- Based on that, ajax call was made and the result obtained was displayed in the desired fields.
- The final amount that the user needed to pay involved summing up the principal payment amount and the monthly payment amount, which was finally displayed with the title "You Pay", so that the users would know the total amount they need to pay without interacting again.

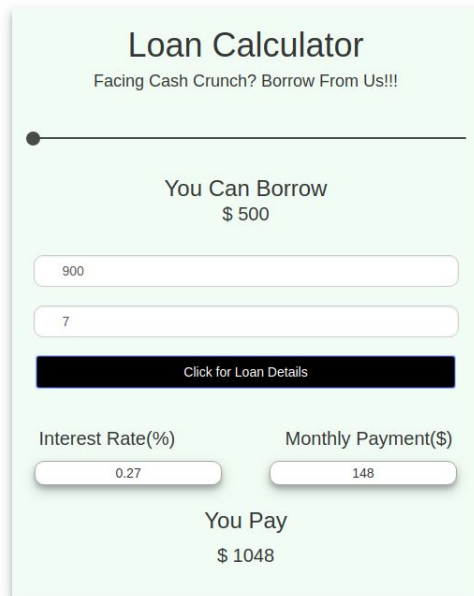
Framework used:

- Keeping in mind the time constraint, used bootstrap to design the app, so that focus could be given on the functionalities.
- Also, have kept the design very basic and minimal.

Improvements:

- Some animation could have been used to make it more interactive and user-friendly.
- Image background or UI matching to some theme would have made it more lively.

Screenshot attached:



The screenshot shows a web-based 'Loan Calculator' interface. At the top, the title 'Loan Calculator' is centered, followed by the tagline 'Facing Cash Crunch? Borrow From Us!!!'. Below this is a horizontal line with a small black dot on the left. The main display area shows 'You Can Borrow \$ 500'. Below this are two input fields: the first contains '900' and the second contains '7'. A black button with white text 'Click for Loan Details' is positioned below the input fields. Below the button, there are two columns of data: 'Interest Rate(%)' with a value of '0.27' and 'Monthly Payment(\$)' with a value of '148'. At the bottom, it says 'You Pay \$ 1048'.

Input	Value
Loan Amount	900
Term (months)	7
Interest Rate (%)	0.27
Monthly Payment (\$)	148
Total Repayment (\$)	1048

Experience:

Quite an interesting case, as most of the Money Lending platforms nowadays support this feature for users to know the loan details before applying for it.