**Functional Requirements Specification (FRS) Document**

1. **Find the EMI for Car:**

- Objective: Calculate the Equated Monthly Installment (EMI) for a car loan.

- Inputs:

* Car Price: 15 Lac
* Interest Rate: 8.5%
* Tenure: 1 year
* Outputs:
* Display EMI, Interest Amount, and Principal Amount for one month.

**2. Home Loan EMI Calculator:**

- Objective: Extract and store data from the year-on-year table of a Home Loan EMI Calculator.

- Steps:

* Navigate to the Home Loan EMI Calculator.
* Fill in relevant details (e.g., Loan Amount, Interest Rate, Tenure).
* Extract data from the year-on-year table.
* Store the extracted data in an Excel sheet.

**3. Loan Calculator – EMI:**

- Objective: Perform UI checks for text boxes and scales in the Loan Calculator’s EMI section.

- Steps:

* Navigate to the Loan Calculator.
* Access the EMI calculator.
* Perform UI checks for text boxes and scales.
* Change Loan Tenure for both years and months.
* Check the corresponding changes in the scale.
* Re-use the Loan Division Calculator and Loan Tenure Calculator.

**4. Additional Information:**

- Suggested Site: emicalculator.net (<https://emicalculator.net>) (or any other legitimate site).

- General Requirements:

* The system should handle various loan scenarios without errors.
* Ensure the accuracy of calculations based on the provided inputs.
* The UI should be user-friendly and responsive.
* Error messages should be clear and provide guidance for correction.
* The extracted data for the Home Loan EMI Calculator should include details such as principal, interest, and outstanding balance for each year.

**5. Constraints:**

- The interest rate, loan amount, and tenure should adhere to real-world constraints.

- The system should gracefully handle invalid inputs and guide users to correct them.

- Range limits for input values (e.g., maximum and minimum principal, amount, interest, rate, tenure).

**6. Assumptions:**

- Input values will be entered in the correct format (e.g., numeric values for principal and interest and rate, date).

- The EMI calculation formula adheres to standard financial formulas.

**7. Deliverables:**

- Code implementation for all functionalities.

- Test cases and results for each functionality.

- Excel sheet containing the extracted year-on-year data from the Home Loan EMI Calculator.

- ExtentReport/testNG report for all the test cases.

**8. Future Considerations:**

- Implement additional loan calculators for different types of loans.

- Integration with a database for storing historical loan data.

This Functional Requirements Specification outlines the detailed requirements for implementing **‘Find Interest for Current Year’** (Hackathon Idea). It serves as a guideline for development, testing, and validation activities.