GENERAL LOGIC FRAMEWORK – ARMSTRONG CAPITAL

1. Client Personal Details

Personal Information Capture

Input Fields:

- Client Name
- Date of Birth (DOB)
- Desired Retirement Age (default to 55 if not provided)
- Spouse Name
- Number of Children

Investment Horizon Classification

Logic:

- Calculate years until retirement:
 - Retirement Age Current Age
- For children's education goals (if age is provided), calculate: Expected Education Age Current Age of Child

Classification Rules:

- If time to goal is > 5 years \rightarrow Long-Term
- If time to goal is 3-5 years \rightarrow Medium-Term
- If time to goal is < 3 years \rightarrow Short-Term

Risk Appetite Assessment

Step 1: Equity Exposure Check

- If current assets include **Direct Equity**, **Equity MFs**, or other equity instruments → **Equity Exposure** = **Yes**
- Else \rightarrow Equity Exposure = No

Step 2: Time to Retirement

- If Years to Retirement < 5:
 - \circ If Equity Exposure = Yes → Risk Appetite = Medium
 - If Equity Exposure = $No \rightarrow Risk Appetite = Low$
- If Years to Retirement ≥ 5:
 - o If Equity Exposure = Yes \rightarrow Risk Appetite = Medium to High
 - If Equity Exposure = $No \rightarrow Risk Appetite = Medium$

Goal Identification

Logic:

- If user has specified goals → Use user-defined goals
- Else → Automatically assign:
 - o **Retirement Planning** (based on retirement age or default age 55)
 - o Children's Education (if children present and age-appropriate)

2. Current Assets & Liabilities

1. Current Assets Summary (Visualization)

Objective: Display each current asset's proportion in a pie chart and show total asset value below.

Inputs (Sample Categories):

- Bank Balance / Cash
- Fixed Deposits
- Mutual Funds (Equity / Debt)
- Direct Equity
- Bonds
- Real Estate
- Provident Fund (PF)
- Public Provident Fund (PPF)
- National Pension Scheme (NPS)
- Gold
- Other investments

Logic:

- Calculate total asset value:
 - Total = Sum of all individual assets
- For each asset:
 - \circ % = (Asset Value / Total) \times 100
- Plot pie chart with:
 - Asset categories as segments
 - o Percentage labels

Below Pie Chart Display:

- Total Assets: ₹<Total Value> (formatted in lakhs or crores)
- If liability is present Subtract it and show the net worth post that.

3. Current Asset Classification Sheet

Objective: Classify assets into three buckets:

A. Liquid Assets (Accessible financial assets)

Includes:

- Bank Balance / Cash
- Fixed Deposits
- Mutual Funds (Equity/Debt)
- Direct Equity
- Bonds
- Gold
- Other Market-linked Assets

B. Retirement Assets

Includes:

- Provident Fund (PF)
- Public Provident Fund (PPF)
- National Pension Scheme (NPS)

C. Fixed Assets

Includes:

- Real Estate
- Land
- Property

Logic:

- Read asset types and classify into the respective bucket
- Sum values under each category
- Display output as a table or stacked bar chart with:
 - Category Name
 - Total Value
 - o % of Total Assets

4. Loan Pre-payment analysis – (If its present)

Step 1: Evaluate All Existing Loans

Before focusing on the home loan, review the client's full debt profile:

- List all active loans: Home loan, car loan, personal loan, credit card debt, etc.
- Compare interest rates:
 - o Personal loans and credit cards often carry the **highest interest rates**.
 - o Car loans generally come with **moderate interest rates** and no tax benefits.
 - o Home loans usually have the **lowest rates**, with added **tax deductions**.

Debt Repayment Strategy:

- 1. Close highest-interest loans first, unless early closure incurs heavy penalties.
- 2. **If liquidity is tight**, consider refinancing high-cost loans.
- 3. Use **debt snowball (lowest balance first)** or **avalanche (highest interest first)** based on behavioural or financial preferences.

Example: If the client holds a personal loan at 14% and a home loan at 8%, personal loan closure should take priority unless the liquidity is specifically earmarked for home loan prepayment.

Step 2: Check for Liquidity Constraints

- If **EMI burden** > 50% of net monthly inflows, avoid increasing EMI or committing to large lump-sum prepayments.
- Ensure surplus availability for:
 - o Essential living expenses
 - o Emergency fund
 - o High-priority goals (retirement, children's education)

Consider a SIP toward prepayment or staggered partial payments only after funding priority goals.

Step 3: Evaluate Existing Liquid Assets

- If the client holds **low-yielding instruments** (e.g., FDs, liquid funds, idle savings):
 - o Use part of these assets to **prepay the costliest loan** (based on Step 1).
 - o Reinvest EMI savings into higher-return investments.

Step 4: Prioritize Home Loan Prepayment (if applicable)

Assess Based on EMI Composition

- In early years, the interest portion is higher, making prepayment more effective.
- In later years, when the principal dominates, the benefit is limited.

Assess Based on Tax Benefits

Section Deduction Type Max Limit Notes

24(b) Interest Paid ₹2,00,000 Only for self-occupied homes 80C Principal Repaid ₹1,50,000 Shared with other 80C items

Avoid over-prepaying if it leads to **underutilization of deductions** under 80C and 24(b).

Step 5: Prepayment Strategy Options

• **Lump Sum Prepayment**: From bonuses, maturing policies, or FDs.

- **SIP Toward Prepayment**: Invest surplus monthly in equity/hybrid funds to build a corpus for future prepayment.
- **EMI Top-up**: Only if EMI is $\leq 30\%$ of net income and goals are well-funded.

Final Decision Framework

Ask these key questions:

- Is a liquidity cushion in place?
- Are high-cost loans already closed or being addressed?
- Are financial goals fully funded or at risk?
- What is the effective return on investments vs. interest saved by prepaying?
- Will prepayment reduce tax benefits significantly?
- Can a hybrid strategy (partial prepay + invest) optimize both risk and return?

Recommendation: Run a scenario analysis comparing:

- Full prepayment
- Full investment
- Partial prepayment + continued investing to determine the **optimal financial outcome**.

5. Goal Input Sources

Goal Types:

- **Retirement**: Based on client input or assume retirement at age 55
- Education:
 - Undergraduate (UG) \rightarrow Default at Child's Age 18
 - o Postgraduate (PG) \rightarrow Default at Child's Age 22
- Other Goals: As explicitly specified by the client (e.g., Home Purchase, Car, Vacation, Marriage, etc.)

2. Goal Details Captured per Entry

Each goal entry should include:

- Goal Name (e.g., Retirement, UG for Child 1, PG for Child 2, Home Purchase)
- Target Year (calculated)
- **Time Remaining (Years)** = Target Year Current Year
- Estimated Cost (optional) If input is available

3. Goal Target Year Calculation

Retirement Goal:

Target Year = Current Year + (Retirement Age – Current Age)

Education Goals:

For each child:

- UG Goal Year = Current Year + (18 Child's Age)
- PG Goal Year = Current Year + (22 Child's Age)

Other Goals:

• Use client's provided year or calculate using time to goal.

4. Goal Sorting Logic

- Sort all goals by **Target Year (ascending order)**
- In case of same year, maintain order: Education \rightarrow Retirement \rightarrow Others

6.Current Financial Health

To assess the client's current financial health across the following dimensions:

- Liquidity
- Flexibility
- Asset Allocation (vs. ideal benchmarks)
- Goal Feasibility (based on Retirement & Education needs)
- Savings Adequacy
- Spending Behaviour

Even though this sheet comes earlier in the plan, it must **reference calculations from later sheets**, especially **retirement and education goal feasibility**.

2. Key Parameters and Logic

A. Liquidity Ratio

• Formula:

Liquid Assets / Total Assets

Red Flag if:

 $< 10-15\% \rightarrow Suggests illiquidity$

B. Real Estate + Low Yield Exposure

- Combine:
 - Real Estate
 - LIC Policies
 - o FDs
- Formula:

(Low Yield Assets / Total Assets) \times 100

Red Flag if:

> 50% → Overweight in illiquid/low-return assets

C. Flexibility

- If majority of assets are in fixed income + real estate → Low flexibility
- If substantial assets in market-linked or redeemable products → Medium to High flexibility

Classification:

• **High**: >30% in market-linked/liquid

• **Medium**: 15–30%

• **Low**: <15%

D. Goal Feasibility Reference (from Retirement/Education Sheets)

• Use gap between goal corpus required and corpus available + projected savings

Logic:

• Feasibility Rating:

○ **Feasible**: Gap $\leq 10\%$

o **Stretch**: Gap between 10–30%

o **Unrealistic**: Gap > 30%

E. Savings Gap Analysis

• If current savings rate is **inadequate** to meet retirement/education goals:

o Show required increase:

Required Monthly Savings – Current Monthly Savings

o **Red Flag if**: required increase > 50%

F. Spending Behaviour

- Savings Ratio = Savings / Income
- Red Flag if:
 - \circ Savings < 20% for age < 40
 - Savings < 30% for age ≥ 40
- OR if expenses consume more than 70% of income

3. Output: Financial Health Summary

Parameter	Value / Diagnosis	Remark / Actionable
Liquidity Ratio	6% → Low Liquidity	Improve emergency corpus
Real Estate Allocation	$65\% \rightarrow \text{High}$	Diversify portfolio
Flexibility	Low	Switch to more flexible assets
Retirement Goal Gap	35% → Unrealistic	Increase savings or delay retirement
Education Goal Feasibility	Stretch	Start SIPs in long-term funds
Savings Gap	Needs 2× current saving rate	Review expenses or income sources
Spending Behaviour	75% income spent → High Spending	Track and reduce lifestyle inflation

Combine all these parameters and draft a paragraph mentioning key areas for improvement.

Educational planning

1. Determine "Years Left" for Each Child's Education

UG Default Age = 18 PG Default Age = 22

Years Left = UG/PG Year - Child's Current Age

2. Define Education Type (Domestic vs International)

- ➤ Years Left < 5 (Near-Term Goals)
 - Check if financial assets ≥ ₹2 Cr
 - If yes, suggest foreign education (US/UK)
 - If no, suggest domestic UG/PG
- ightharpoonup Years Left ≥ 5 (Long-Term Goals)
 - Net worth < ₹2 Cr → Default: UG domestic, PG domestic
 - Net worth ≥ 2 Cr \rightarrow UG domestic, PG international (US/UK)

Exception: If there is a substantial **retirement goal gap**, even PG international is deprioritized.

3. Choose the Cost Base

- ◇ International UG/PG (US/UK)
 - Use average of top 10 engineering/MBBS colleges (depending on input)
 - o UG Engineering (default)
 - o PG MBA or Masters in Tech
 - o MBBS only if specifically mentioned
 - Use 6–8% annual inflation to project future cost
 - Example:

Future Cost = Current Cost \times (1 + Inflation Rate) $^{\land}$ Years Left

- ◊ Domestic UG/PG
 - Use average of top 20 Indian colleges (IITs, NITs, top private)
 - Apply **education inflation (~9-10%)** to get future value

4. Evaluate Existing Education Savings

If education savings exist (e.g., SIPs, Sukanya, policies):

- Net Future Value (FV) of these investments
- Subtract from estimated **future cost**
- Remainder = Additional savings needed

Prioritization Logic:

- Years Left $< 5 \rightarrow$ Use current assets first
- Years Left $\geq 5 \rightarrow$ Split across:
 - o Future savings (through SIPs)
 - o Step-up savings
 - o Minimal draw from current corpus if flexibility is low

5. Retirement Cross-Check

If there's a gap in retirement goal:

• Deprioritize foreign PG

Age Group Max Step-Up Rate

- Focus on **UG** + **Retirement first**
- Mark PG as aspirational goal and display gap
- Suggest revisiting after income or savings rise

Step-Up Savings Logic Framework

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30–40	Up to 15%	High income growth potential
40–50	Up to 10%	Moderate step-up possible
>50	Up to 5%	Low flexibility due to nearing retirement

Notes