Empowering India: Analysing the Evolution of Union Budget Allocations for Sustainable Growth

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TEAM ID	LTVIP2026TMIDS90655
PROJECT NAME	**Empowering India: Analysing the Evolution of Union Budget Allocations for Sustainable Growth**
MAXIMUM MARKS	4 MARKS

3.2-Solution Requirements:

1. Data Requirements:

- Collection of Union Budget data from multiple years.
- Sector-wise allocation data (Education, Health, Agriculture, Infrastructure, Environment, Social Welfare, etc.).
- GDP growth rate, inflation rate, and fiscal deficit data.
- Sustainable development indicators (poverty rate, literacy rate, employment rate, renewable energy usage).
- Reliable sources such as Government of India budget reports, RBI, and NITI Aayog.

2. Technical Requirements:

- Computer/Laptop with internet connectivity.
- Software tools:
  - MS Excel / Google Sheets for data handling.
  - Tableau / Power BI for visualization.
  - Python / R (optional) for advanced analysis.
- Database system (MySQL / PostgreSQL) for large datasets (if required).

3. Functional Requirements:

- Import and store budget allocation data.
- Organize data year-wise and sector-wise.
- Perform trend analysis of budget allocations.
- Compare spending patterns across different sectors.
- Identify priority areas for sustainable development.
- Generate interactive charts and dashboards.
- Export reports in PDF/PowerPoint format.

4. Analytical Requirements:

- Year-wise growth rate calculation.
- Sector-wise percentage share analysis.
- Correlation analysis between budget spending and development indicators.
- Impact assessment of major policies and schemes.
- Forecast future allocation trends using historical data.

5. User Requirements:

- Simple and user-friendly interface.
- Easy navigation between reports and dashboards.
- Filter options (Year, Sector, Region).

- Clear visual representation of data.
- Download and print facility for reports.

6. Security & Data Integrity Requirements:

- Data validation to avoid incorrect entries.
- Backup system for datasets.
- Restricted access for editing sensitive data.
- Protection against unauthorized modifications.

7. Performance Requirements:

- Fast loading of dashboards.
- Efficient handling of large datasets.
- Real-time or near real-time updates (if connected to live data sources).
- Minimal system downtime.

8. Documentation Requirements:

- User manual for operating tools.
- Technical documentation for system setup.
- Project report explaining methodology and findings.
- Data source documentation.

9. Sustainability & Scalability Requirements:

- Ability to add new budget years easily.
- Support for additional sectors and indicators.
- Adaptability to new government policies.
- Environment-friendly digital reporting (paperless).

10. Evaluation Requirements:

- Accuracy of analysis results.
- User feedback on usability.

11. Stakeholder Analysis:

- Stakeholders involved
- Government policymakers
- Researchers and students
- NGOs and social organizations
- Citizens
- Financial institutions
- Each stakeholder benefits from transparent budgeting.

12. Risk Assessment:

- Possible risks include:
- Data inconsistency
- Policy changes
- Technical failures
- Limited access to reports
- Risk mitigation strategies are planned accordingly.