

Project requirements

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Community & UN SDG(s):	SDG 15: Life on Land – Protecting forests and biodiversity. SDG 13: Climate Action
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Project Name	Deforestation Data Platform – A Power BI-based multi-page report for tracking global deforestation trends
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Functional Requirements

- 1. Multi-Page Power BI Dashboard**
 - Displays deforestation trends, carbon emissions, and other data.
 - Includes filters for time range, regions, and industries.
- 2. Data Integration & Processing**
 - Supports manual data uploads from CSV, Excel, and external sources.
 - Allows basic data cleaning and transformation before visualization.
- 3. Visualization & Insights**
 - Provides interactive maps to show deforestation hotspots.
 - Displays charts, graphs, and statistical insights for analysis.
- 4. User Accessibility & Engagement**
 - Students (middle/high school, junior college) can access tailored insights.
- 5. Report Export & Sharing**
 - Users can export data and visuals in PDF or Web version format.
 - Shareable cloud-based reports with role-based access control.

Technical/Performance Requirements

- 1. Platform & Infrastructure**
 - Developed using Power BI (Web & Desktop versions).
 - Excel/CSV for importing datasets
- 2. Data Handling**
 - Supports datasets for manual data entry.
 - Refresh cycle: Manual updates required for data sources
- 3. Performance & Usability**
 - Dashboard response time under 5 seconds for basic interactions.
 - Optimized for desktop and web access (not mobile app-based).
- 4. Security & Access**
 - Read-only access for general users; edit permissions for admins.