

Software Requirement Specification (SRS)Project Title: **GreenAI Comparometer**

Team Members

Puspita Biswas (**Reg no.**: 2448348)
Utkarsh Misra (**Reg no.**: 2448370)
Priangshu Paul (**Reg no.**: 2448384)

Software Requirements

Category	Tool	Purpose
Frontend	React.js, Tailwind CSS,	Build UI, style components, lightweight in-
	HTML, JS, Streamlit	teractive dashboards
Backend	Python (Flask/Django),	Build API services and logic layer, Commu-
	REST API	nication between frontend and backend
Carbon Trackers	CodeCarbon, eco2AI,	Lightweight, GPU/CPU-based real-time
	CarbonTracker, Im-	carbon tracker, Tracks carbon and energy
	pact Tracker, ML CO	during training ,Monitors resource usage
	Calculator, EnergyVis	and logs metrics, Visualize model energy
		consumption, Online estimation based on
		inputs
Database	SQLite / Firebase / Post-	Store model run logs, metrics, user data
	greSQL	
Dev Tools	VS Code, GitHub, Post-	Code editor ,Version control and collabora-
	man	tion, API testing
Deployment	Streamlit / Heroku / Ren-	Optional online hosting
	der	

Hardware Requirements

Component	Specification	Purpose
Processor	Intel i5+ / M1+	Model training & development
RAM	8–16 GB	Efficient multitasking
GPU (Optional)	GTX/RTX or Colab	Deep learning support
Disk Space	50 GB+	Dataset/model storage
OS	Windows/Linux/macOS	Compatibility
Internet	Stable broadband	Deployment, API calls