

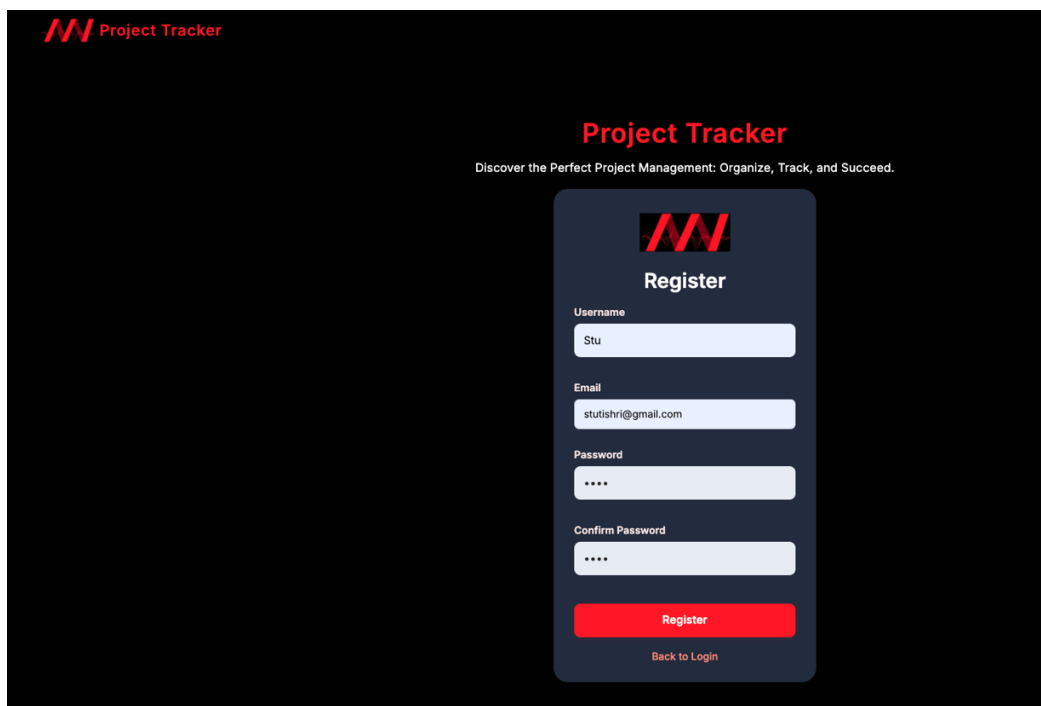
Project Tracker - User Help

This guide describes the main features of the Project Tracker application and how to use them.

URL: <https://st.adaptivewaves.ai>

1. Register user

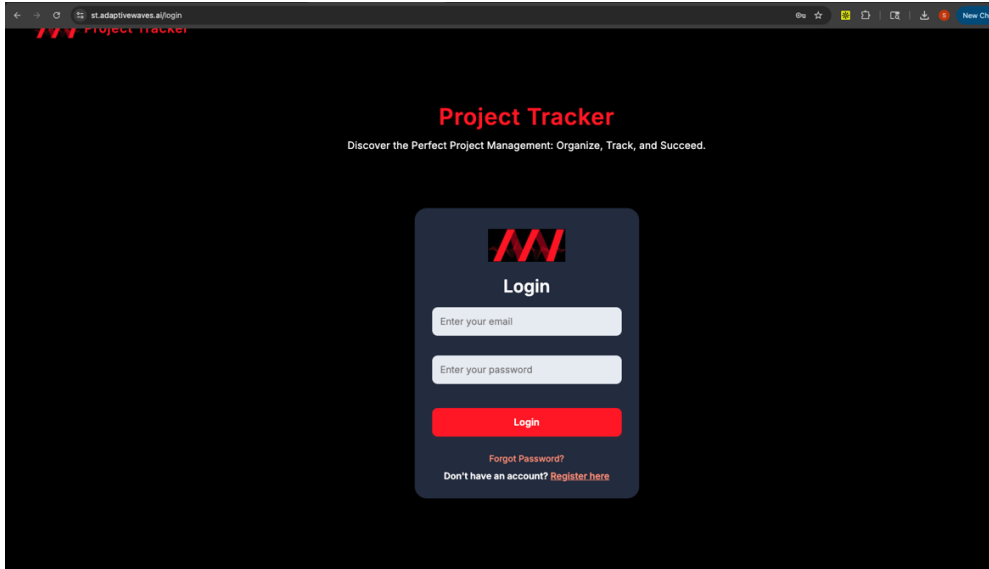
- Open the Login page. At the bottom, choose Register here to show the registration form.
- Enter a username, email, password, and confirm password. All these fields are required; passwords must match.
- Submit the form. After a successful registration you can sign in with the same account.



The screenshot shows the Project Tracker registration interface. At the top left, the logo "Project Tracker" is displayed in red. The main heading "Project Tracker" is centered in red, with the tagline "Discover the Perfect Project Management: Organize, Track, and Succeed." below it. The registration form is a dark blue rounded rectangle containing the Project Tracker logo, the title "Register", and four input fields: "Username" (with "Stu" entered), "Email" (with "stutishri@gmail.com" entered), "Password" (with four dots), and "Confirm Password" (with four dots). A red "Register" button is at the bottom of the form, and a "Back to Login" link is below it.

2. Login

- Enter your username or email and your password, then sign in.
- Use Forgot password? if you need to reset your password via email (when email is configured on the server).



3. Dashboard (home)

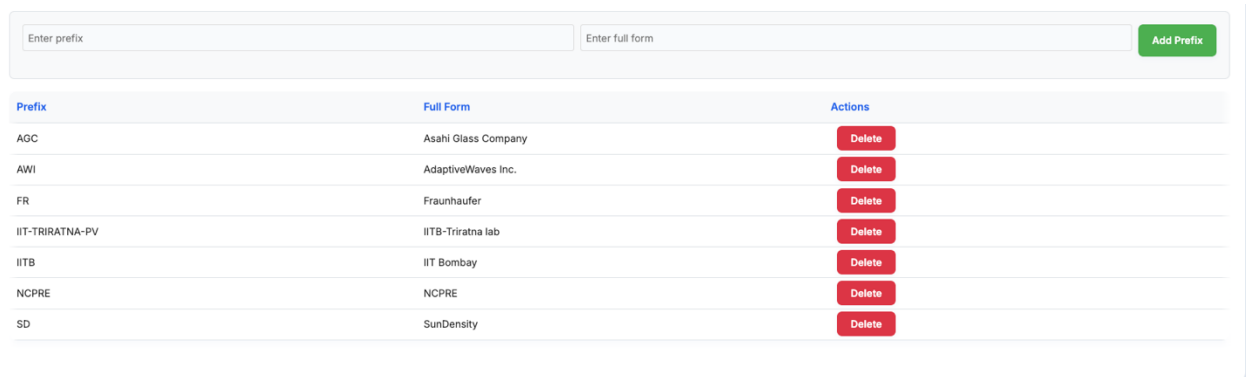
- After login, the home screen lists your samples in a table (company, ERB, date, recipe, glass type, dimensions, process flags, etc.).
- From here you can open Add New Sample, Manage Prefixes, Experiment Data, Combined View, Compare Samples, View Plots, and Trash, or Delete a sample row (deleted samples are moved to Trash).

A screenshot of the Project Tracker dashboard. The dashboard has a dark header with the Project Tracker logo and navigation links: Home and Chatbot. Below the header is a table of samples. The table has several tabs: Add New Sample, Manage Prefixes, Experiment Data, Combined View, Compare Samples, View Plots, and Trash. The table columns are: ID, Company, ERB, Date, Time, Recipe Front, Recipe Back, Glass Type, Dimensions, Process (Cleaning, Coating, Annealing), Done, Sample Image, and Actions. The table contains two rows of sample data.

ID	Company	ERB	Date	Time	Recipe Front	Recipe Back	Glass Type	Dimensions	Process			Done	Sample Image	Actions
									Cleaning	Coating	Annealing			
FR-Ex000-H12834	FR	000	12/12/2025	16:28 PM	SiO2-TiO2	Nan	BRL	3*1*3	Y	Y	N	N	No image	Edit Delete Add Exp
SD-Ex821-2312	SD	821	12/05/2025	13:18 PM	SiO2,TiO2	0	Borosil	23*23*32	N	N	Y	N	Sample Image	Edit Delete Add Exp

4. Manage prefixes

- Manage Prefixes defines the short company prefix codes used when building sample IDs (for example, in Add New Sample).
- If your company name (or desired prefix) is not in the list, add it here: enter the prefix (short code) and the full name (full company or organization name), then save.
- Keep prefixes accurate so sample IDs stay consistent across the team.



The screenshot shows a web interface for managing prefixes. At the top, there is a form with two input fields: "Enter prefix" and "Enter full form", followed by a green "Add Prefix" button. Below the form is a table with three columns: "Prefix", "Full Form", and "Actions". The table contains seven rows of data, each with a "Delete" button in the "Actions" column.

Prefix	Full Form	Actions
AGC	Asahi Glass Company	Delete
AWI	AdaptiveWaves Inc.	Delete
FR	Fraunhafer	Delete
IIT-TRIRATNA-PV	IITB-Triratna lab	Delete
IITB	IIT Bombay	Delete
NCPRE	NCPRE	Delete
SD	SunDensity	Delete

5. Add new sample

- Use Add New Sample from the dashboard.
- Fill in the sample details. Fields marked with * (asterisk) are mandatory complete those before submitting.
- You typically choose a company prefix, ERB information, and a sample ID part; the application builds the full sample ID from these pieces.
- You can attach a sample image and notes where the form allows it.

Add New Sample

Sample Details

Company: *

ERB: *

ERB Description:

Sample ID: *

Enter only the sample ID part. Full ID will be: PREFIX-ExERB-XXX

Date: *

Time: *

Recipe Front: *

Recipe Back: *

Glass Type: *

Dimensions (mm): *
 Length: Thickness: Height:

Process:

Experiment Details

Transmittance Link:

Reflectance Link:

Absorbance Link:

PLQY Link:

SEM Link:

EDX Link:

XRD Link:

6. Experiment data

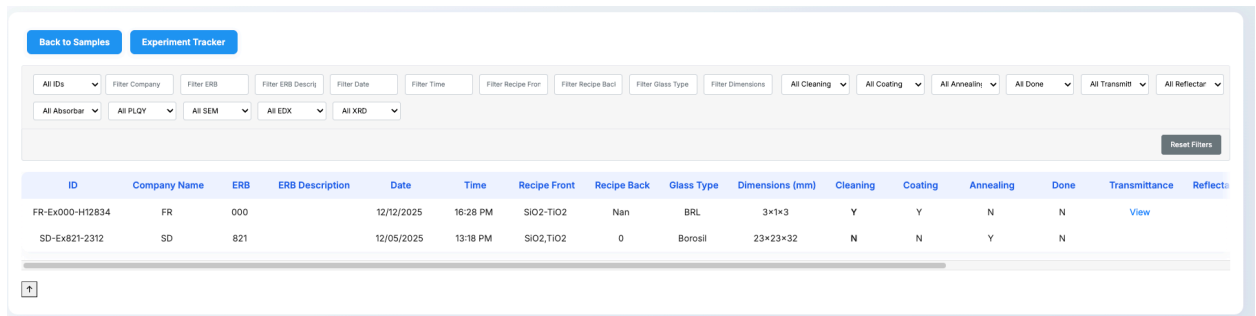
- Experiment Data lists experiments linked to samples (including sample ID).
- Use it to see which samples have experiment records and to add or edit experiment data (for example optical measurements such as transmittance, reflectance, absorbance, and other fields supported by your forms).
- Experiment rows are tied to the sample's business ID so they stay aligned with the sample list.

[Back to Samples](#)

Sample ID	Transmittance	Reflectance	Absorbance	PLQY	SEM	EDX	XRD	Actions
FR-Ex000-H12834	View							Edit
FR-Ex000-H12834	View							Edit
FR-Ex000-H12834								Edit

7. Combined view

- Combined View shows detailed sample information together with related experiment data in one place.
- Use the filters / dropdowns at the top to narrow the list (for example by company, ERB, or other available criteria).
- This view is useful for reviewing or exporting-style workflows when you need both sample and experiment context.

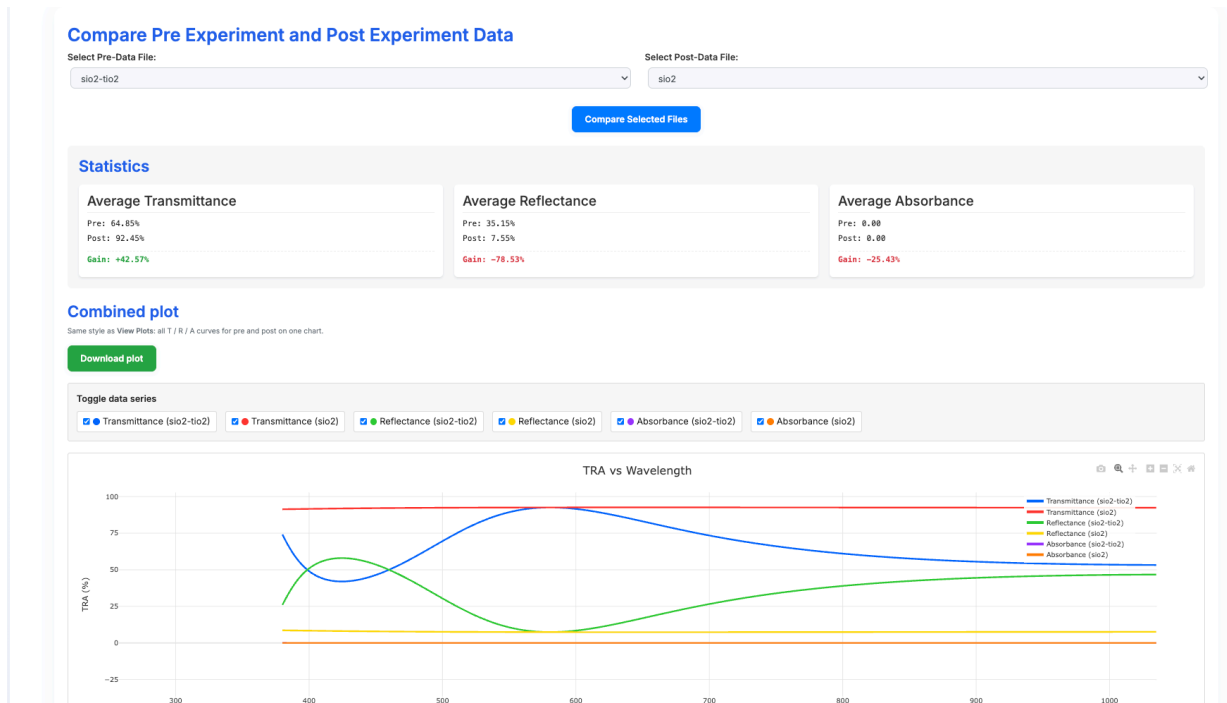


The screenshot shows the 'Experiment Tracker' interface. At the top, there are two buttons: 'Back to Samples' and 'Experiment Tracker'. Below these are several filter dropdowns: 'All IDs', 'Filter Company', 'Filter ERB', 'Filter ERB Descr', 'Filter Date', 'Filter Time', 'Filter Recipe Fron', 'Filter Recipe Back', 'Filter Glass Type', 'Filter Dimensions', 'All Cleaning', 'All Coating', 'All Annealin', 'All Done', 'All Transmitt', and 'All Reflector'. There are also dropdowns for 'All Absorbar', 'All PLOY', 'All SEM', 'All EDX', and 'All XRD'. A 'Reset Filters' button is located on the right side of the filter area. Below the filters is a table with the following columns: ID, Company Name, ERB, ERB Description, Date, Time, Recipe Front, Recipe Back, Glass Type, Dimensions (mm), Cleaning, Coating, Annealing, Done, Transmittance, and Reflect. The table contains two rows of data:

ID	Company Name	ERB	ERB Description	Date	Time	Recipe Front	Recipe Back	Glass Type	Dimensions (mm)	Cleaning	Coating	Annealing	Done	Transmittance	Reflect
FR-Ex000-H12834	FR	000		12/12/2025	18:28 PM	SiO2-TiO2	Nan	BRL	3x1x3	Y	Y	N	N	View	
SD-Ex821-2312	SD	821		12/05/2025	13:18 PM	SiO2,TiO2	0	Borosil	23x23x32	N	N	Y	N		

8. Compare samples (SpectraCoat / pre-post spectra)

- Compare Samples connects the sample tracker to SpectraCoat-style data stored in MongoDB (pre and post datasets).
- Choose one pre record and one post record from the lists, then run compare. The tool builds charts (including a combined-style plot) from the selected spectra.
- You can toggle series on the chart where the interface provides controls and download the plot when a download control is shown (browser / Plotly toolbar).
- Data must exist in the configured pre_data and post_data collections (and database settings your administrator configures, for example MONGODB_COMPARE_DB if those collections live under a different database name on the same cluster).



9. View plots

- View Plots is for working with files on your computer (for example CSV files with wavelength and TRA columns).
- Upload pre and/or post trajectory files as prompted; the application builds comparison plots (including TRA-style overlays) similar to a lab plotting workflow.
- You can also record a sample ID and a SharePoint link to an image plot for traceability in the plot entries table (when that section is used).
- For best results, use clean CSV headers and avoid trailing empty columns (extra commas), which can create extra blank legend entries.

Experimental Data Plots

Add Plot Entry

Sample ID: *

Enter Sample ID (e.g., AWI-Ex001-001)

SharePoint Image Link: *

Enter SharePoint link to the plot image

Add Plot Entry

Upload Pre TRA Data

PRE TRA.csv

Upload Post TRA Data

Flabec.csv

Download Plot

Statistics

Pre TRA Averages:

Transmittance: 0.00%
Reflectance: 0.00%
Absorbance: 1.000

Post TRA Averages:

Transmittance: 97.62%
Reflectance: 2.18%
Absorbance: 0.002

Gains:

Transmittance Gain: Infinity%
Reflectance Gain: Infinity%
Absorbance Change: -99.80%

Toggle Data Series:

Transmittance

Reflectance

Absorbance

Transmittance (Post TRA)

Reflectance (Post TRA)

Absorbance (Post TRA)

TRA vs Wavelength

— Transmittance
— Reflectance
— Absorbance
— Transmittance (Post TRA)
— Reflectance (Post TRA)
— Absorbance (Post TRA)

10. Trash

- When you delete a sample from the dashboard, the sample (and its related experiment record where applicable) is moved to Trash instead of being removed immediately as long as the Trash / MongoDB feature is available.
- Open Trash to review deleted items, see when they were deleted and who deleted them, and use Restore to put a sample back into the main list if no sample with the same ID already exists.

← Back to Samples

ID	Date	Time	Recipe Front	Recipe Back	Glass Type	Dimensions (mm)	Cleaning	Coating	Annealing	Done	Transmittance	Reflectance	Absorbance	PLQY	SEM	EDX	XRD
FR-Ex000-H12834	12/12/2025	16:28 PM	SiO2-TiO2	Nan	BRL	3x1x3	Y	Y	N	N	https://www.google.com						

11. User management (administrators only)

- Users with admin privileges see User Management in the navigation.
- Admins can list users, activate / deactivate accounts (except their own), grant or remove admin role (not on themselves), and delete user accounts (not their own).

Project Tracker Home Chatbot Logout User Management

User Management

Manage user accounts, permissions, and access

Username	Email	Status	Role	Last Login	Actions
admin	admin@example.com	Active	Admin	2026-04-14 19:46	Current User
Maruti	maruti@adaptivewaves.com	Active	User	Never	Make Admin Deactivate Delete
Barnali	mondal.barnali@students.iiserpune.ac.in	Active	User	Never	Make Admin Deactivate Delete
Stu	stutishri@gmail.com	Active	User	2026-04-14 19:14	Make Admin Deactivate Delete