RnD Grants Management Portal

CP301 Development Engineering Project(AY 2023-24)

- Under the guidance of Dr. Puneet Goyal

Team T16

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Shruti: 2020csb1127

https://rndgrantst16.onrender.com

http://172.30.8.212/



Idea Description

Project Topic: RnD Grants Management Portal

- The project aims to develop a web-based platform for managing and tracking research and development grants.
- The current system relies on manually updating Excel spreadsheets stored on local office computers, which becomes increasingly challenging as the number of projects and files grow.
- The lack of a centralized system also makes it hard for faculty members and academic office members to access the latest information on specific grants, and generating reports is a time-consuming and complex process.
- The new system will streamline grant management by providing a user-friendly interface for tracking and reporting grant information in real-time.

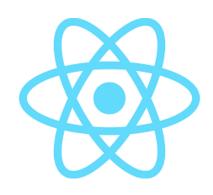
Expectations

- Our goal is to transform the existing R&D grant application into a web-based platform capable of effectively managing grants.
- Resolving any existing system issues to ensure smooth operation.
- Introducing new features, and implementing constraints and security measures to meet the standards set by our university.
- Finally bringing the portal to implementation by taking the feedback of the stakeholders.

Stakeholders

- RnD grands management section as Admins
- Faculty as professors
- Fellow

Tech stack or Technologies used





React JS

React Bootstrap

Material UI

Sheet JS



1.Render

2.Server

Nginx, PM2, PostgreSQL





• BACKEND

Node JS

Express

Google oAuth



PostgreSQL

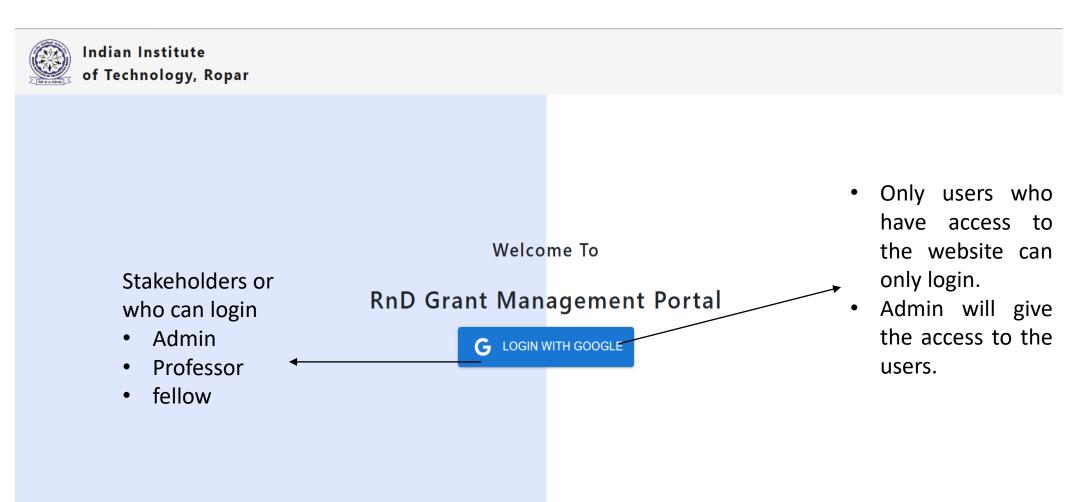


ON RENDER

https://rndgrantst16.onrender.com

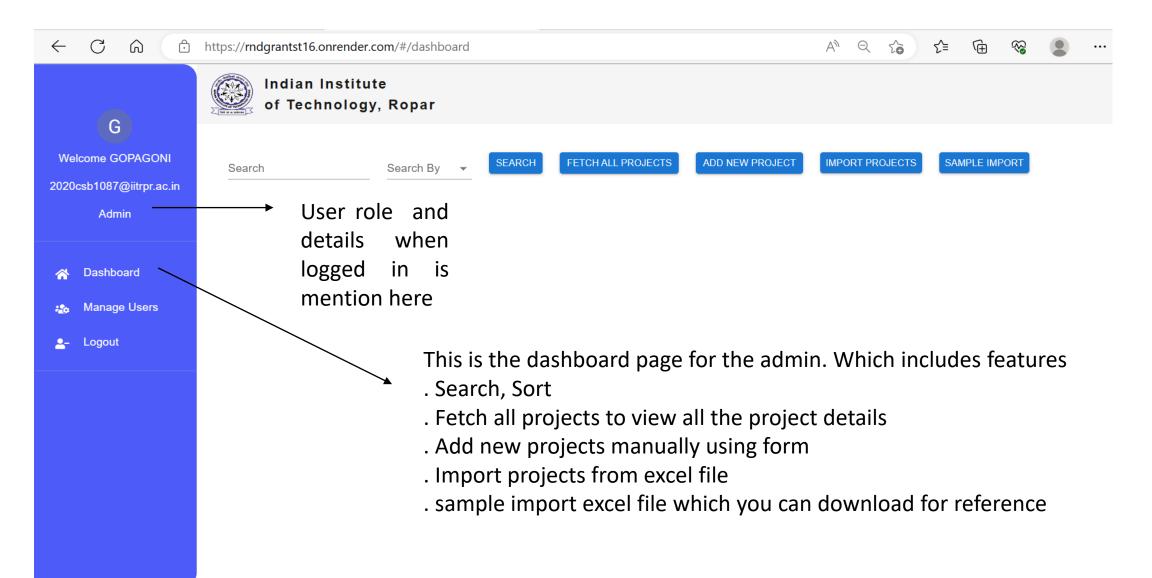


Functionality — Login

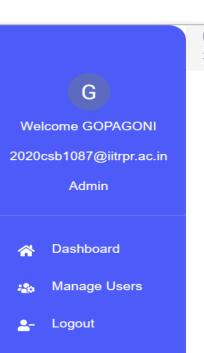


Admin Page

Functionality — Admin (Dashboard)



Functionality — Admin (Fetch all projects)





Search Search By SEARCH FETCHALL PROJECTS ADD NEW PROJECT IMPORT PROJECTS SAMPLE IMPORT

EXPORT PROJECTS TO EXCEL SHEET

ID	professor_email	PI	Co-PI	Dept	Funding Agency	Title	Sanctioned order no.	Sanctioned date	Total Project Cost\	Duration	Year Sanctioned	DOS	DOC	View Project
8	anshika28gangwar@gmail.com	Shruti	sreya	cse	central government	sentiment analysis using AI/ML	A52J1	2023-07- 11	9000	6 years, 2 months, 20 days	2023	2023- 06-26	2029- 09-15	•
145	sreyagopagoni@gmail.com	sreya	sreya	CSE	IIT	POII	tf45678	2023-05- 20	9	3yrs	2023	2023- 05-13	2023- 05-19	0
7	sreyagopagoni@gmail.com	Sreya	Shruti	cse	mitacs	cyber security	A12H2	2023-07- 10	9000	5 years, 2 months, 20 days	2023	2023- 06-26	2028- 09-15	•
4 @														•

Request Projects

ID	DI	Co-	5 1	Funding	T:41-	Sanctioned	Sanctioned	Total Project Cost\	Duration	Year	DOG	D00	Approve	Delete	file
ID professor_email	ы	PI	Dept	Agency	Title	order no.	date			Sanctioned	DOS	DOC	Project	Project	link

Dashboard

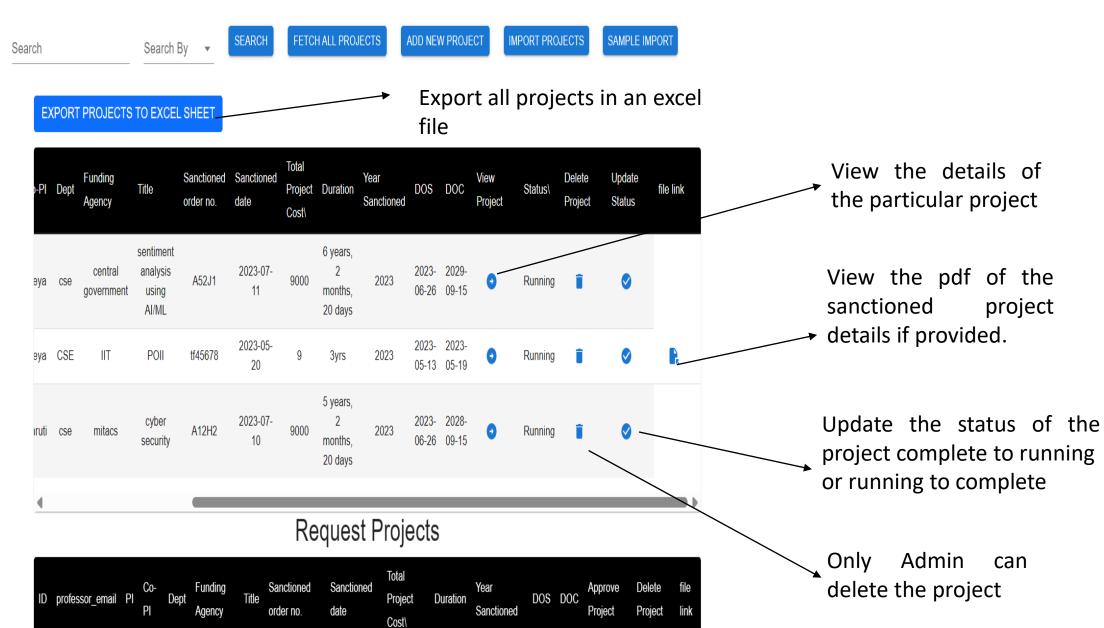
G

Welcome GOPAGONI

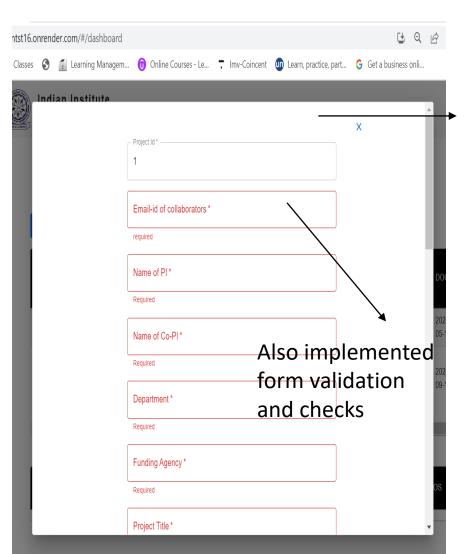
2020csb1087@iitrpr.ac.in

Admin

- A Dashboard
- Manage Users
- 2- Logout



Functionality — Admin (add new project)

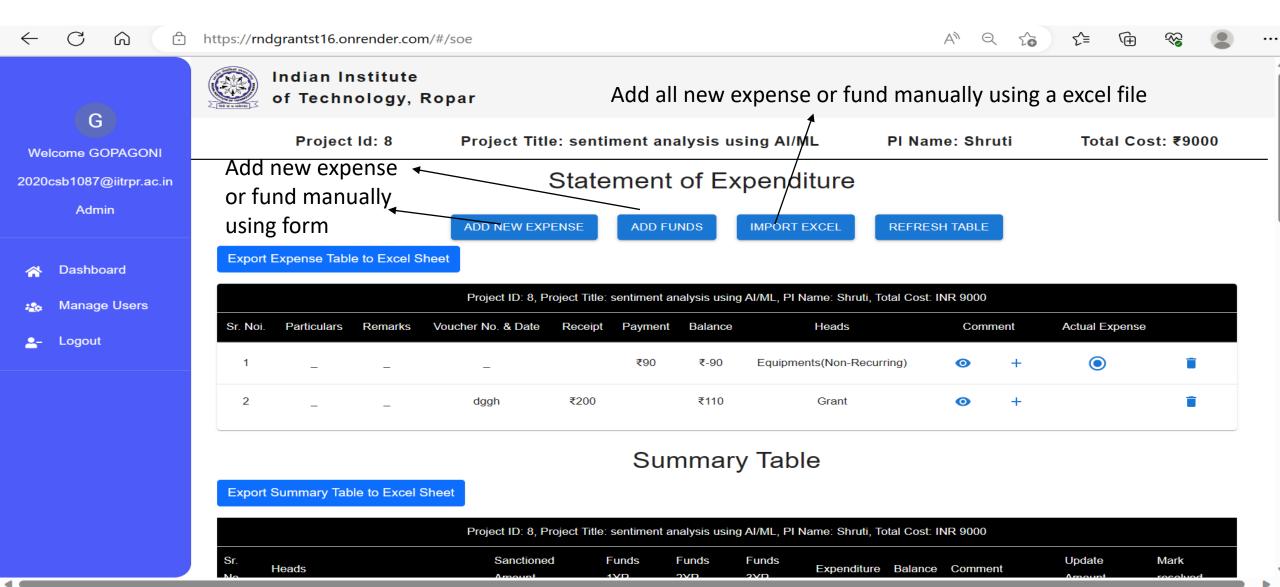


Manually add projects using form



upload the excel file which contain details of all the projects. If needed see the sample impot file by clicking the sample import button

Functionality — Admin (view details of particular project)



G
Welcome GOPAGONI

2020csb1087@iitrpr.ac.in

Admin

Dashboard

Manage Users

- Logout

Dashboard

Export Summary Table to Excel Sheet

Summary Table View or add

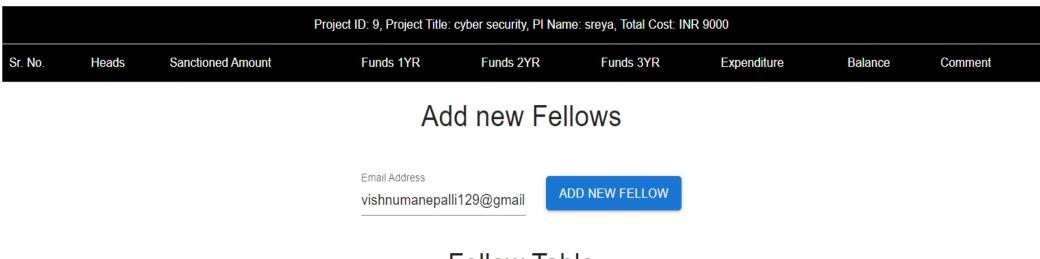
comment

Edit the sanctioned amount

When seen the comment and want to resolve the comment

	Project ID: 8, Project Title: sentiment analysis using Al/ML, Pl Name: Shruti, Total Cost: INR 9000									
Sr. No.	Heads	Sanctioned Amount	Funds 1YR	Funds 2YR	Funds 3YR	Expenditure	Balance	Comment	Update Amount	Mark resolved
1	Rec.	₹8000	₹100	₹0	₹0	₹0	₹100	• +		⊘
2	Non-Rec.	₹2000	₹100	₹0	₹0	₹90	₹10	• +	1	②
3	Manpower(Recurring)	₹1000	₹0	₹0	₹0	₹0	₹0	• +	1	②
4	Consumables(Recurring)	₹1000	₹0	₹0	₹0	₹0	₹0	• +	1	©
5	Travel(Recurring)	₹1000	₹0	₹0	₹0	₹0	₹0	• +	1	©
6	Field Testing/Demo/Tranings(Recurring)	₹1000	₹0	₹0	₹0	₹0	₹0	• +	1	Ø

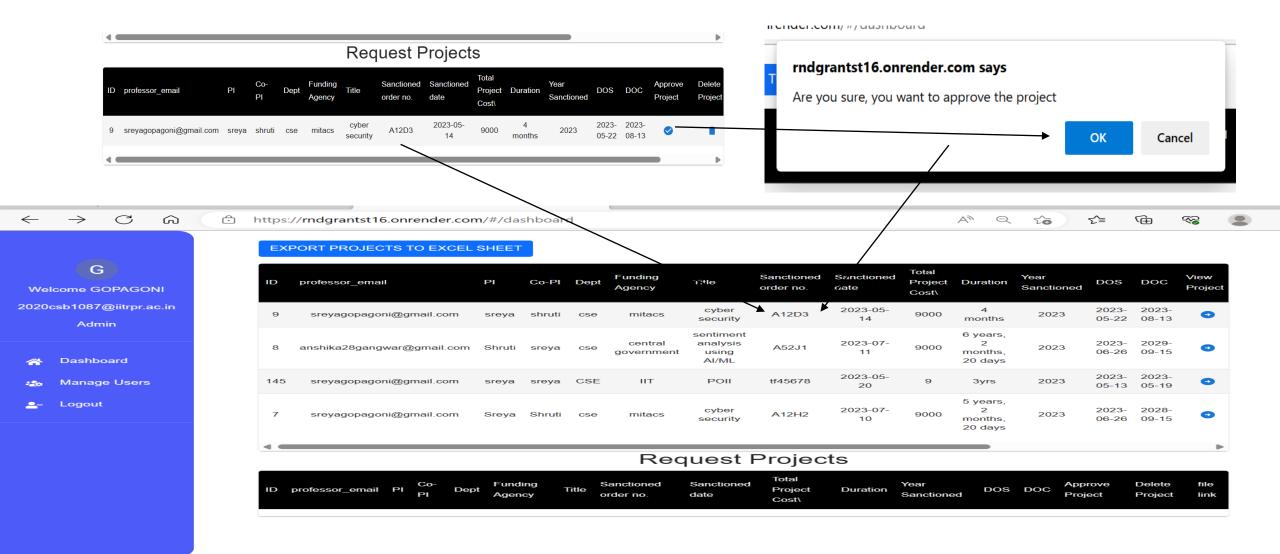
Functionality — Admin (Add a fellow to the project)



Fellow Table



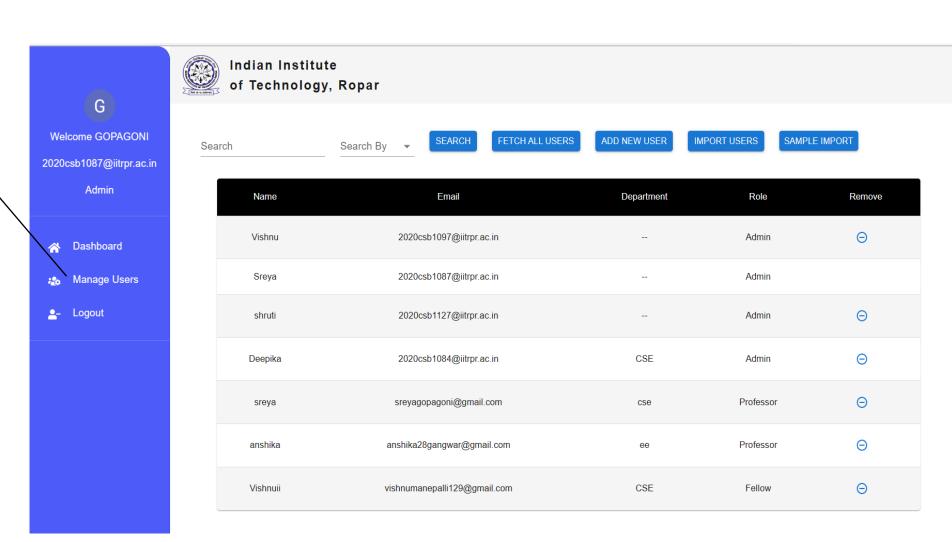
Functionality — Admin (Approve project)



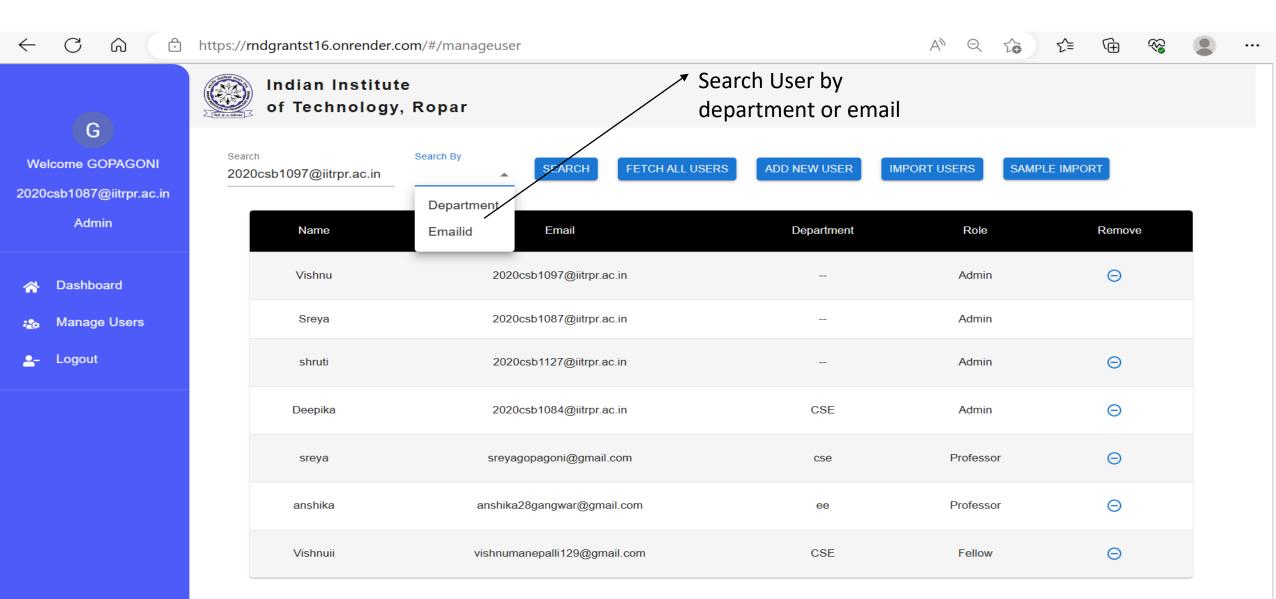
Functionality — Admin (Manage Usres)

Only Admin has manage users page Which includes features

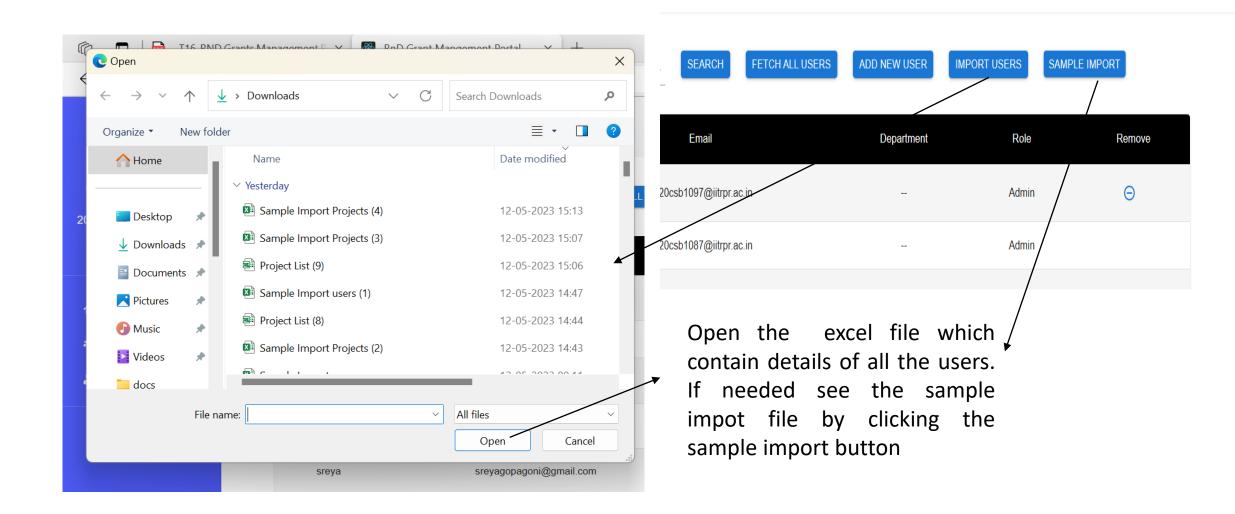
- . Search
- . Fetch all users to view all the user details
- . Add new user manually using form.
- . Import users from excel file
- . sample import excel file which you can download for reference



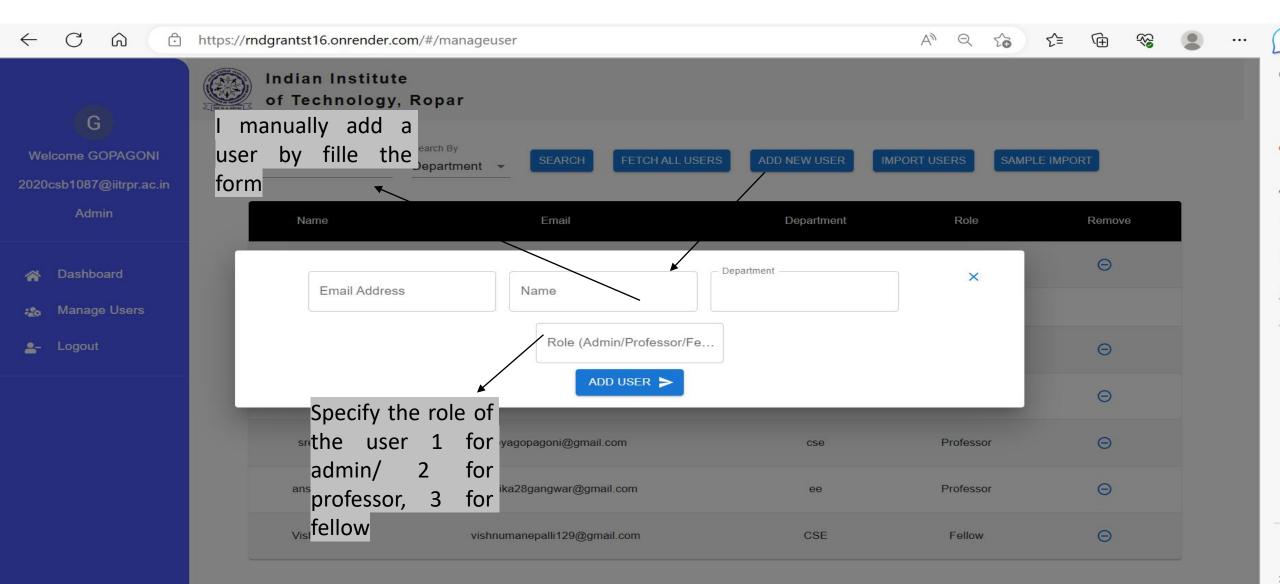
Functionality — Admin (Search)



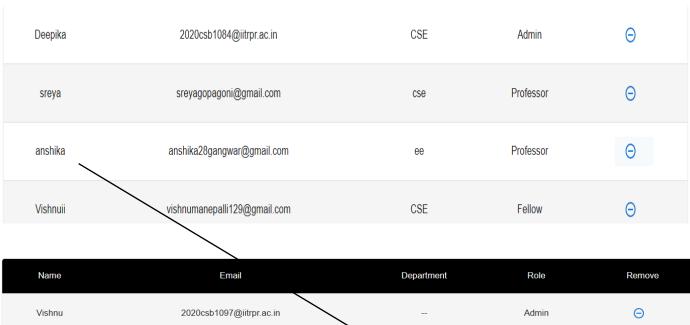
Functionality — Admin (Import users and Sample import)



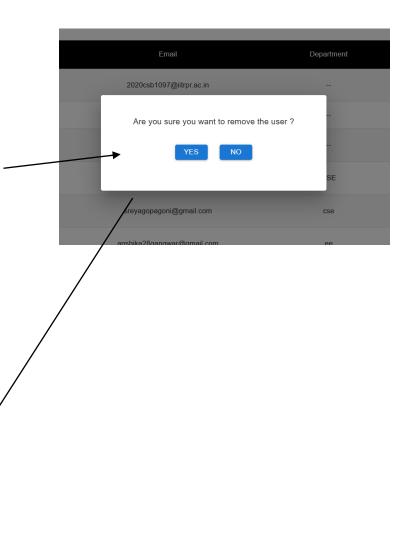
Functionality — Admin (Add new user using form)



Functionality — Admin (Delete user)

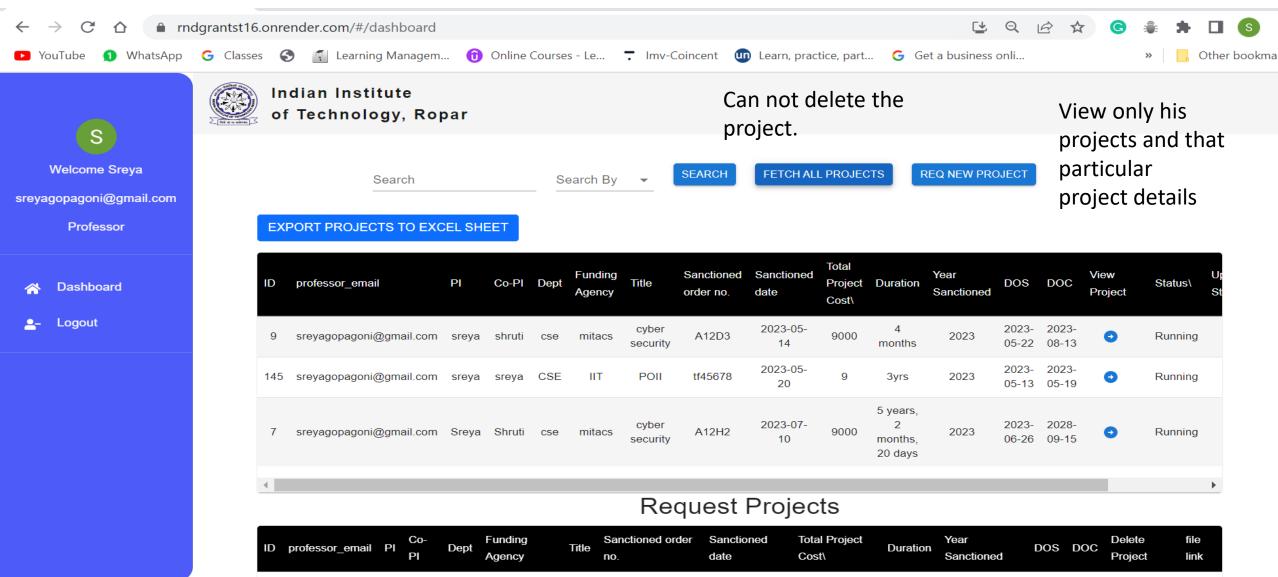


Name	Email	Department	Role	Remove	
Vishnu	2020csb1097@iitrpr.ac.in		Admin	Θ	
Sreya	2020csb1087@iitrpr.ac.in		Admin		
shruti	2020csb1127@iitrpr.ac.in	-	Admin	Θ	
Deepika	2020csb1084@iitrpr.ac.in	cse Ani	shkaduser g	ot Θ	/
sreya	sreyagopagoni@gmail.com	_{cse} dele	eted	Θ	
Vishnuii	vishnumanepalli129@gmail.com	CSE	Fellow	Θ	

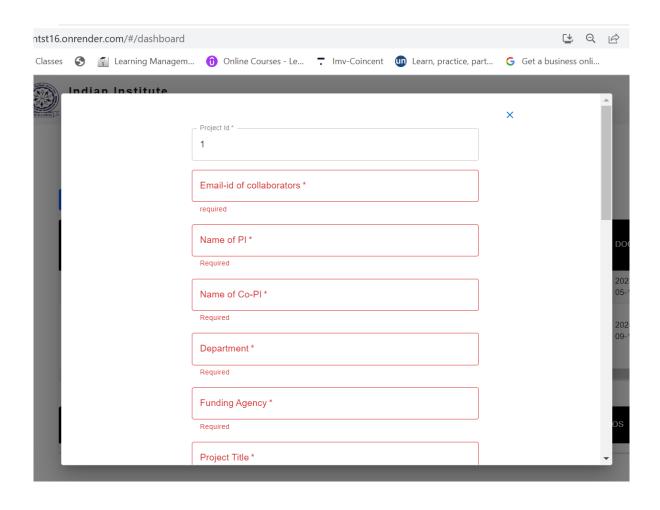


Professor Page

Functionality — Professor(Dashboard)



Functionality — Professor(Request new project)

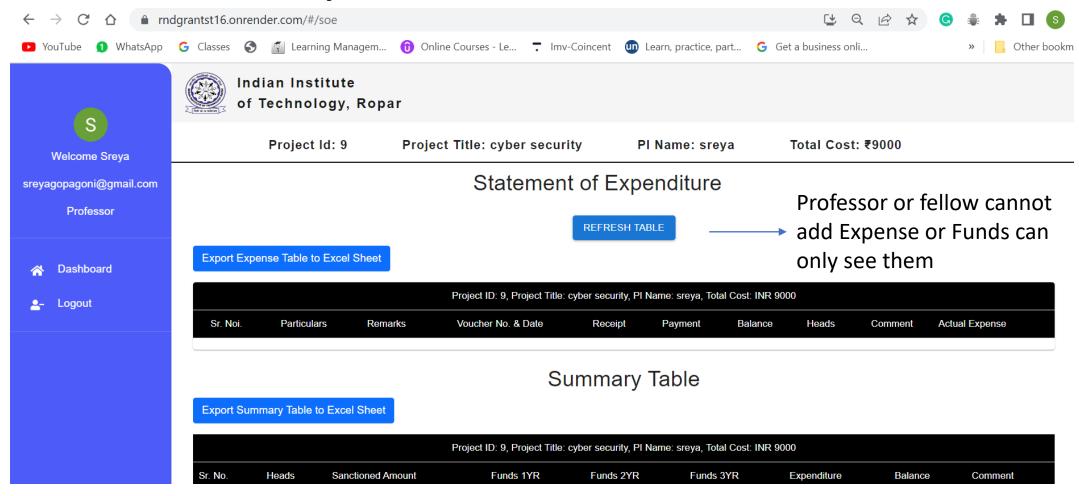


Also implement form validation and checks

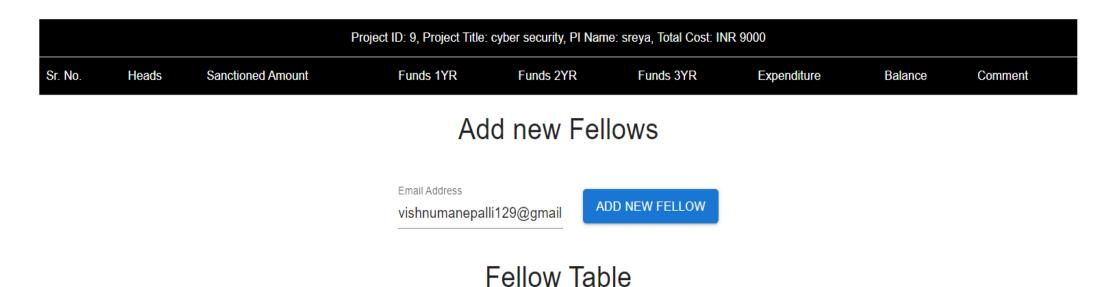
Manually add projects using form

Professor can only request the project and admin approves it

Functionality — Professor(View Project details)



Functionality — Professor (Add a fellow to the project)

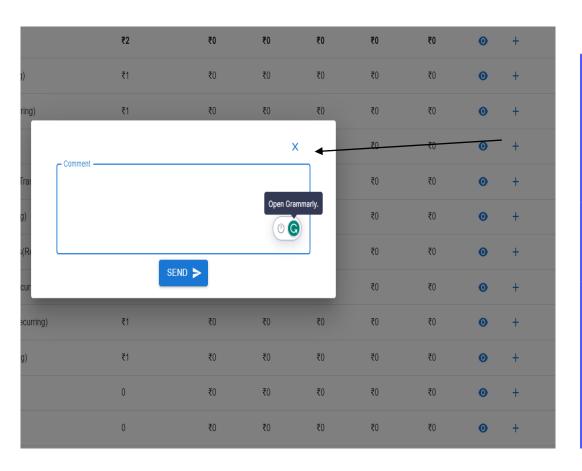


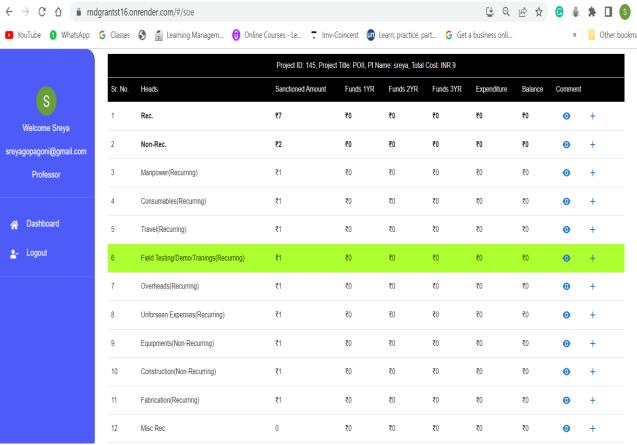
Email Remove

vishnumanepalli129@gmail.com

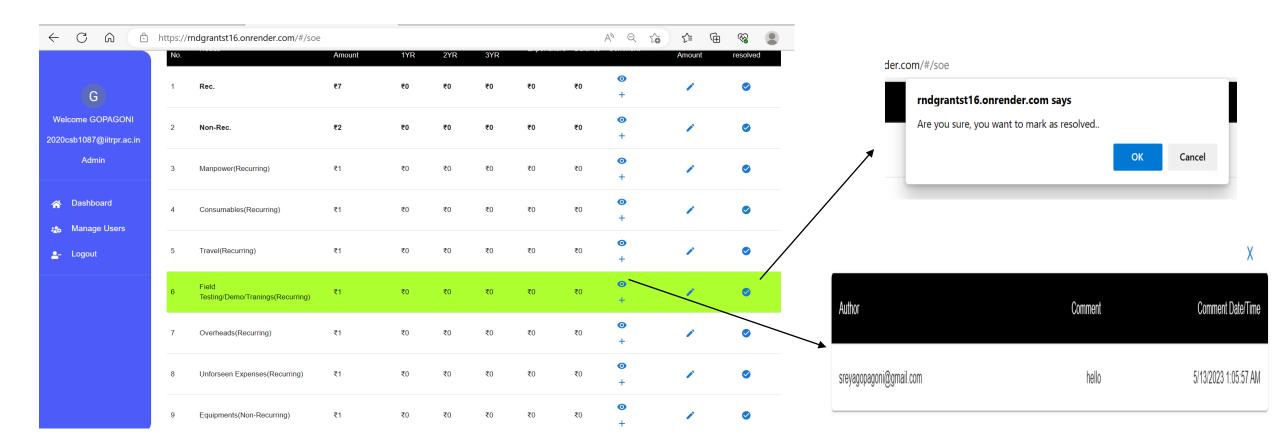
□

Functionality — Professor or Fellow(comment)



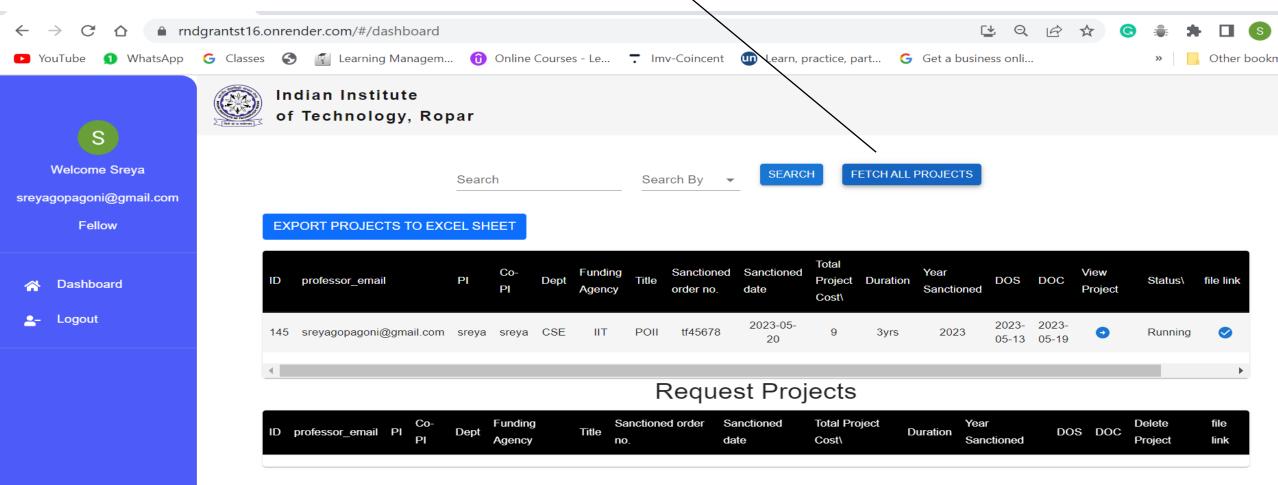


Functionality — Admin(comment)



Fellow page

Can only view the projects in which he was added as a fellow and cannot delete or add projects



Feedback from our Stakeholders

Good evening sir,

I have seen the RnD grants management portal made by the team T16(lashyanth, sreya, vishnu, shruti). It is quiet good and is converging with the actual working of our rnd department and it is resolving many issues which we are facing due to manual processing. They have improved the working of their application with our continuous feedback and it now a ready to use portal.

Acknowledgement

We would like to take this opportunity to express our sincere gratitude to all those who have supported us in the completion of this project.

- First and foremost, we would like to thank my supervisor, Dr. Puneet Goyal for his invaluable guidance throughout the project. His expertise and insights have been instrumental in shaping the direction of this work.
- we would like to express our gratitude to our seniors Vishwam Datta, Ayush Verma, Anshu Kumar, Himanshu Yadav whose project we extended.
- Further we would also like to thank our stakeholders Rnd management section who helped us with continues and valuable feedbacks.

Thank you all for your motivation throughout the course of this project.

Thank you