



VIT Chennai Capstone Project Registration and Evaluation Portal

Karnaveer Singh - 24BDS1092

Thasshien G R - 24BDS1051

T Barath - 24BDS1179

User Page Interface

(Students, Guides, Panels and Externals)

Home Page (Login)

The screenshot shows the homepage of the VIT Chennai Campus Capstone Project Registration and Evaluation Portal. At the top left is the VIT logo. The top center features the portal's name in white text: "VIT Chennai Campus Capstone Project Registration and Evaluation Portal". Below the header is a "LOG IN" button. The main area contains four rounded rectangular buttons, each representing a user group: "Students" (two people reading), "Faculties" (one person at a podium with three others behind them), "Panel" (one person at a podium with three others behind them), and "Externals" (a person wearing a graduation cap). Each button has its corresponding label below it.

The home page consists of a dashboard that provides login options for students, faculties, panel and the externals. By clicking on the login option it will redirect to the login dashboard of students, faculties, panels or externals depending on who the user is.



Student VTOP Login

24BDS1051

.....

MBCJJF

Enter CAPTCHA

Submit

[Forgot Password](#) | [Forgot LoginId](#)

[Go to Home Page](#)



Employee VTOP Login

Enter ID

Enter Password

MBCJJF

Enter CAPTCHA

Submit

[Forgot Password](#) | [Forgot LoginId](#)

[Go to Home Page](#)

The login page of students, employees, panels and externals are attached here



PANEL VTOP Login

Enter ID

Enter Password

MBCJJF

Enter CAPTCHA

Submit

[Forgot Password](#) | [Forgot LoginId](#)

[Go to Home Page](#)



External VTOP Login

Enter ID

Enter Password

MBCJJF

Enter CAPTCHA

Submit

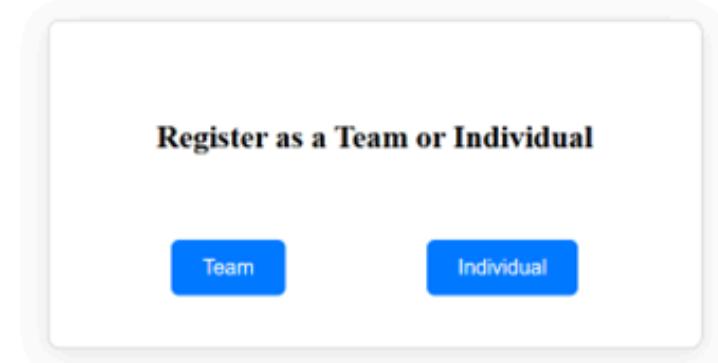
[Forgot Password](#) | [Forgot LoginId](#)

[Go to Home Page](#)

Student Dashboard



VIT Chennai Capstone Project Registration and Evaluation Portal



Individual registration



VIT Chennai Capstone Project Registration and Evaluation Portal

Home

Sign Out



Meena Iyer has not accepted your request yet...



VIT Chennai Capstone Project Registration and Evaluation Portal

Home

Sign Out

CABIN NUMBER	FACULTY	AVAILABLE SEATS	SLOT
2	Ravi Kumar	1	<input type="radio"/>
3	Anita Deshamuk	1	<input type="radio"/>
4	Suresh Nair	3	<input type="radio"/>
5	Meena Iyer	2	<input type="radio"/>
6	Priya Menon	3	<input type="radio"/>
7	Arvind Sharma	3	<input type="radio"/>
1	Valarmathi Sudhakar	0	Full

Proceed

If a student has not registered yet, he has to register himself as an individual or a team under a guide. If a student is registering individually then his details are auto-filled from the login page and he only had to register under a guide. After choosing a guide, the student has to wait for the guide to accept his request.

Student Dashboard

The screenshot shows the 'Enter Student Details' form for team registration. It has three sections for team members:

- Member 1:** Registration Number: 24BDS1178, Name: Barath T.
- Member 2:** Registration Number: (empty), Name: (empty)
- Member 3:** Registration Number: (empty), Name: (empty)

A blue 'Submit' button is at the bottom.

Team registration

The screenshot shows the 'Enter Student Details' form for team registration with valid entries for all three members:

- Member 1:** Registration Number: 24BDS1178, Name: Barath T.
- Member 2:** Registration Number: 24BDS0001, Name: Dummy Student
- Member 3:** Registration Number: 24BDS0002, Name: Dummy Student 2

A blue 'Submit' button is at the bottom.

The screenshot shows the 'Enter Student Details' form for team registration. Member 1 is registered successfully. Member 2 has an invalid registration number (24BDS0000) entered, which triggers an error message: "Student not found". Member 3 is unregistered. A blue 'Submit' button is at the bottom.

When a student registers as a team, he has to register for himself and for the team. The maximum number of students in a team is 3. When a student enters a registration number that is invalid or that does not exist, an error occurs saying “Student not found”. When a student enters a valid registration number, the name field is automatically filled from the database. After entering the details, rest of the registration is same as that of the individual registration.

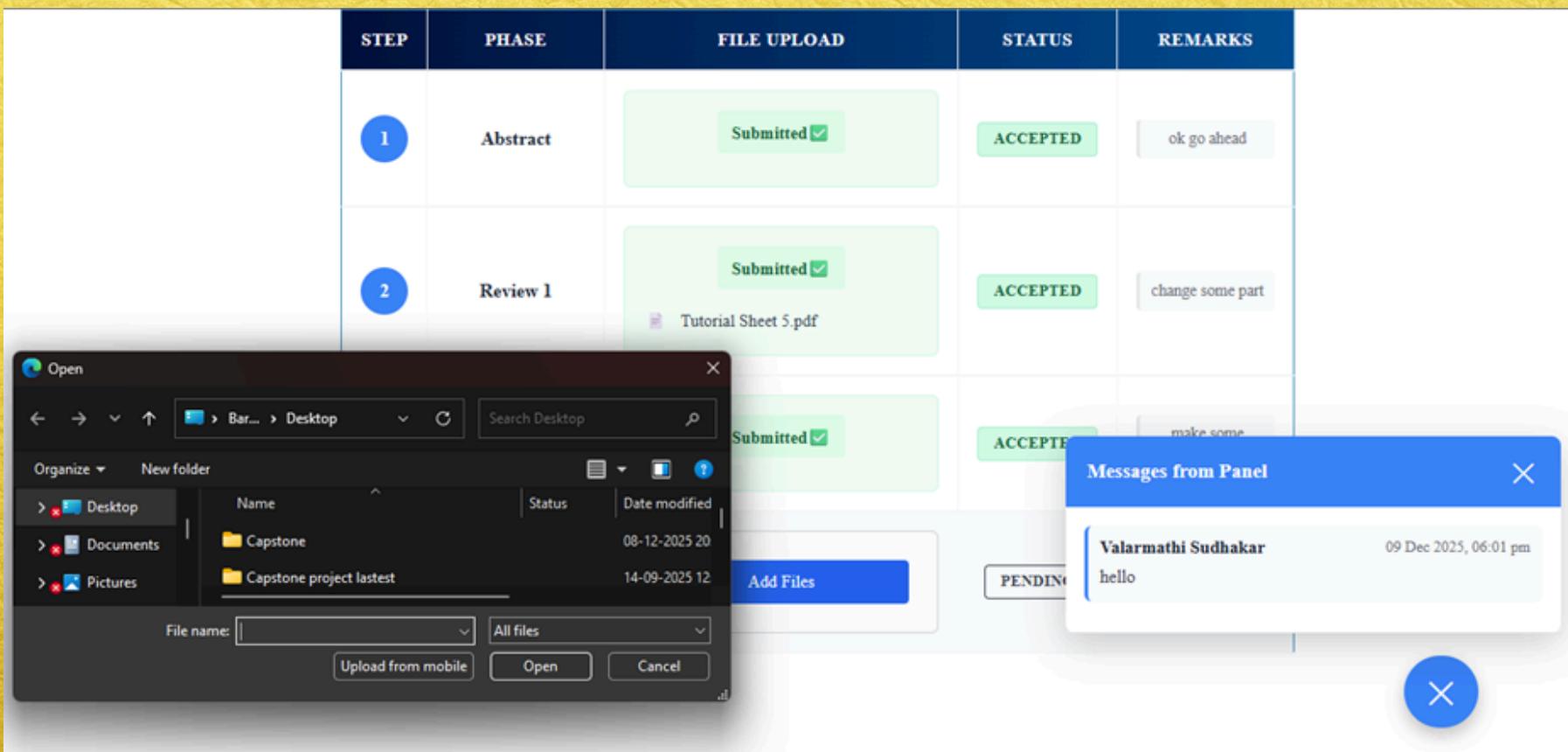
Student Dashboard

The screenshot shows the student dashboard for Barath T. It displays his name and registration number. Below this is a table showing the submission status for four phases: Abstract, Review 1, Review 2, and Final Submission. A file browser window is open, showing a folder structure on the desktop. A message panel is also visible.

NAME	REGISTRATION NUMBER
Barath T	24BDS1178

STEP	PHASE	FILE UPLOAD	STATUS	REMARKS
1	Abstract	Submitted ✓	ACCEPTED	ok go ahead
2	Review 1	Submitted ✓ Tutorial Sheet 5.pdf	ACCEPTED	change some part
3	Review 2	Submitted ✓	ACCEPTED	make some changes
4	Final Submission	Add Files	PENDING	No remarks

STEP	PHASE	FILE UPLOAD	STATUS	REMARKS
1	Abstract	Submitted ✓	ACCEPTED	ok go ahead
2	Review 1	Submitted ✓ Tutorial Sheet 5.pdf	ACCEPTED	change some part
3	Review 2	Submitted ✓	ACCEPTED	make some changes
4	Final Submission	Add Files	PENDING	No remarks



After logging in using the student credentials, the student dashboard consists of a page where the student can view his guide and can upload his documents for submission, know the status of the submission and remarks given by his guide. Buttons for adding and submitting files are available for their respective actions.

Student Dashboard

The screenshot shows the VIT Chennai Campus Capstone Project Registration Student Dashboard. At the top, there are two notifications: a green one saying "Logged in Successfully" and a red one saying "Guide asked to Re Submit Abstract". Below the notifications, the dashboard displays the student's information: Name - Thasshien and Registration Number - 24BDS1051. A table below shows the project status: Step 1 (Abstract) is listed with "Add Files" and "RESUBMIT" buttons, and a remark "No remarks".

Notifications presents to let the user know about his successful login and any high priority notifications like re-submission of any document.

The screenshot shows the VIT Chennai Campus Capstone Project Registration Student Dashboard. A message box titled "Messages from Panel" is open, displaying communications from Ravi Kumar and Valarmathi Sudhakar. Ravi Kumar has sent two messages: "hello" and "hi". Valarmathi Sudhakar has sent a message: "We will meet on thursday". The dashboard also shows the student's information: Name - Karnaveer Singh and Registration Number - 24BDS1092. The project status table shows Step 1 (Abstract) with "Submitted" status and a file named "8086-2.pptx". Step 2 (Review 1) is also shown with "Submitted" status and a file named "infant_growth_data.csv".

A message box is present in the student dashboard where messages from the panel can be viewed by the student for faster communication between student and panel members.

Guide Dashboard

The screenshot shows the 'VIT Chennai Capstone Project Registration and Evaluation Portal' guide dashboard. At the top, there is a logo for VIT CHENNAI and a navigation bar with 'Requests', 'Batch', and 'SignOut' buttons. Below the navigation bar, the heading 'Students who requested you:' is displayed. A card for 'Barath T - 24BDS1178' is shown with 'Accept' and 'Reject' buttons. The background of the dashboard is white.

The screenshot shows the 'VIT Chennai Campus Capstone Project Registration and Evaluation Portal' guide dashboard. At the top, there is a logo for VIT CHENNAI and a navigation bar with 'Requests', 'Batch', and 'SignOut' buttons. Below the navigation bar, the heading 'Batched under you:' is displayed. Two cards are shown: one for 'Barath T - 24BDS1178' with a 'View' button, and another for 'Dummy Student 3 - 24BDS0003', 'Dummy Student 4 - 24BDS0004', and 'Dummy Student 5 - 24BDS0005' each with a 'View' button. The background of the dashboard is white.

After logging in using the guide credentials, the guide dashboard consists of a page where the guide can view students who has requested him (individual or team) and can view the set of students whom are batched under him after accepting the students. On clicking 'View' the guide will be redirected to the page where he can view submissions from students. Sign out button is present to log out the guide from the portal.

Guide Dashboard

Guide: Ravi Kumar					
NAME		REGISTRATION NUMBER			
Barath T		24BDS1178			
TITLE	FILE	MARKS	REMARKS	ACCEPT	REJECT
Abstract		0	ok go ahead	Accept	ReSubmit
Review 1	Tutorial Sheet 5.pdf	View PDF	0	change some part	Accept
Review 2			0	make some changes	Accept
Final Submission		0	Remarks	Accept	ReSubmit

Individual

NAME						REGISTRATION NUMBER					
Dummy Student 3						24BDS0003					
Dummy Student 4						24BDS0004					
Dummy Student 5						24BDS0005					
TITLE	FILE	MARKS	REMARKS	ACCEPT	REJECT	Dummy Student 3	34				
Abstract	8086-2.pptx	View PDF		Accept	ReSubmit	Dummy Student 4	67	ok go			
						Dummy Student 5	45				
Review 1	1_Fall Semester 2025...	View PDF		Accept	ReSubmit	Dummy Student 3	0				
						Dummy Student 4	0	change			

Team

On clicking the ‘View’ button on a particular batch or individual student, the guide will be redirected to the page where he can view submissions from student, add marks and remarks, accept for the next submission or reject for re-submission. The document will be auto-downloaded when we click on the ‘View PDF’ button. For a team submission, the guide can enter marks for the students individually ensuring fairness and accuracy.

Panel Dashboard

The screenshot shows the VIT Chennai Campus Capstone Project Registration and Evaluation Portal panel dashboard. The interface is organized into sections for each guide assigned to the user.

Ravi Kumar

- Team 1**
Barath T - 24BDS1178
- Team 2**
Dummy Student 3 - 24BDS0003
Dummy Student 4 - 24BDS0004
Dummy Student 5 - 24BDS0005

Anita Deshmukh

- Team 1**

Ravi Kumar

- Team 1**
Barath T - 24BDS1178
- Team 2**
Dummy Student 3 - 24BDS0003
Dummy Student 4 - 24BDS0004
Dummy Student 5 - 24BDS0005

Anita Deshmukh

- Team 1**
Thasshien - 24BDS1051

Meena Iyer

- Team 1**
Karnaveer Singh - 24BDS1092

After logging in using the panel credentials, the panel dashboard consists of a page where the panel can view the list of guides assigned to him and the students under the guide. If a guide has more than one team, it shows that too with clear differentiation.

Panel Dashboard

The screenshot shows a student's profile with the name Barath T and registration number 24BDS1178. Below this, there is a table showing three submissions:

Title	File	Marks	Accept	Edit
Review 1	Tutorial Sheet 5.pdf	View PDF	Barath T Marks	Submit Edit
Review 2		Barath T Marks	Submit Edit	
Final Submission		Barath T Marks	Submit Edit	

A blue button at the bottom right says "Message Team Members".

The screenshot shows a student's profile with the name Karnaveer Singh and registration number 24BDS1092. Below this, there is a table showing three submissions:

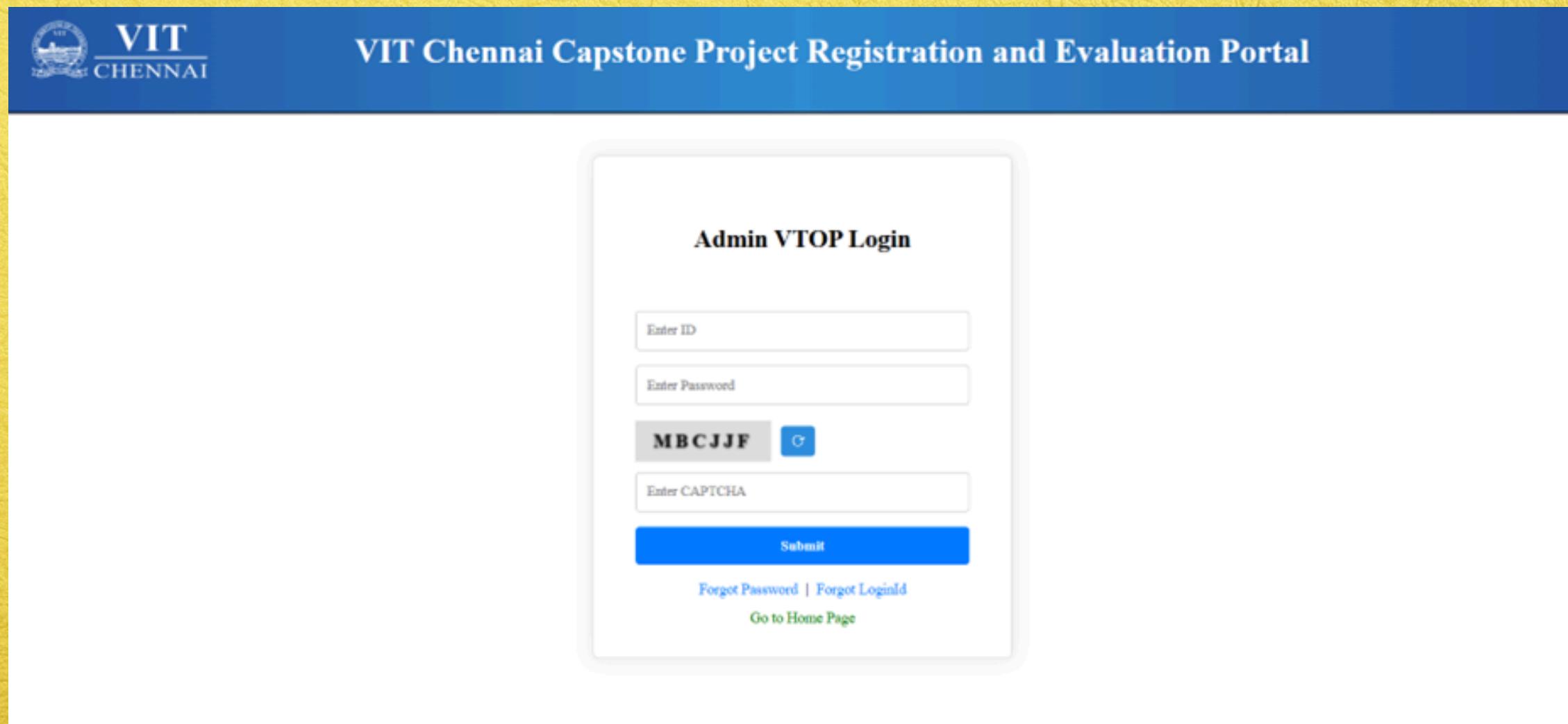
Title	File	Marks	Accept	Edit
Review 1	infant_growth_data.csv	View PDF	Karnaveer Singh Marks	Submit Edit
Review 2		Karnaveer Singh Marks		
Final Submission		Karnaveer Singh Marks		

An overlay window titled "Team Messages" is open, showing previous messages from Valarmathi Sudhakar and a message input field.

After clicking on a particular team to view under a guide, the panel will be redirected to the page where he/she can view the submissions of the student, view the documents, add the final marks, submit and edit his marks. There is also a message box where the panel can send messages to the students ensuring faster communication between student and panel members.

Admin Page Interface

Admin Login Page



The screenshot shows the 'Admin VTOP Login' page of the VIT Chennai Capstone Project Registration and Evaluation Portal. At the top left is the VIT Chennai logo. The main title 'VIT Chennai Capstone Project Registration and Evaluation Portal' is centered above a login form. The login form has the following fields: 'Enter ID' (text input), 'Enter Password' (text input), a 'MBCJJF' button with a dropdown arrow, 'Enter CAPTCHA' (text input), and a blue 'Submit' button. Below the form are links for 'Forgot Password | Forgot LoginId' and 'Go to Home Page'.

The admin login page consists of a dashboard that provides login options for admins where they enter their credentials to login.

Panel mapping

The screenshot shows the 'Panel Mapping' section of the portal. At the top, there is a blue header bar with the VIT logo and the text 'VIT Chennai Campus Capstone Project Registration and Evaluation Portal'. Below the header, there is a navigation bar with buttons for 'Panel Mapping', 'External Mapping', 'Review 1', 'Review 2', 'Final Submission', and 'Upload'. The main content area is titled 'Panel Mapping' and contains a table with the following data:

GROUP MEMBERS	GUIDE	PANEL 1	PANEL 2	SAVE	EDIT
Team 1 24BDS002 Dummy Student 2 24BDS003 Dummy Student 3	Valarmathi Sudhakar	Suresh Nair (004)	Arvind Sharma (007)	<button>Save</button>	<button>Edit</button>
Team 1 — No Members	Ravi Kumar	Meena Iyer (005)	Priya Menon (006)	<button>Save</button>	<button>Edit</button>
Team 2 24BDS1178 Barath T	Anita Deshmukh	Valarmathi Sudhakar	Ravi Kumar (002)	<button>Save</button>	<button>Edit</button>
Team 1 24BDS1092 Karunveer Singh	Suresh Nair	Anita Deshmukh (003)	Valarmathi Sudhakar	<button>Save</button>	<button>Edit</button>
Team 1 24BDS1051 Thashrien	Meena Iyer	Anita Deshmukh (003)	Priya Menon (006)	<button>Save</button>	<button>Edit</button>
	Priya Menon	Meena Iyer (005)	Arvind Sharma (007)	<button>Save</button>	<button>Edit</button>
	Arvind Sharma	Ravi Kumar (002)	Suresh Nair (004)	<button>Save</button>	<button>Edit</button>

At the bottom of the table, there are two buttons: 'Randomize' and 'Submit'.

Panel mapping is done using a randomization logic

The students are already assigned to a guide during registration. Later for evaluation, the students and the guide are assigned to different panel members (who are other guides) using a randomization logic such that no student or a team has the same person as guide and panel. When the admin clicks save for a particular team, the data with students, guides and panel members are stored in the database, which can later be edited.

External mapping

The screenshot shows the 'External Mapping' section of the VIT Chennai Capstone Project Admin Portal. The page has a header with the VIT logo and the text 'VIT Chennai Capstone Project Admin Portal'. Below the header is a navigation bar with buttons for 'Panel Mapping', 'External Mapping' (which is highlighted in blue), 'Review 1', 'Review 2', 'Final Submission', and 'Upload'. The main content area is titled 'External Mapping' and contains a table with columns: GUIDE, ACCEPTED TEAMS, MAP TO EXTERNAL, and ACTION. The table lists seven entries, each corresponding to a guide and their accepted teams. In the 'MAP TO EXTERNAL' column, dropdown menus show assigned externals like 'Prof. S. Kumar' or 'Dr. Anita Rao', with 'Edit' and 'Save' buttons. At the bottom are 'Endorse' and 'Submit All' buttons.

The screenshot shows the 'External Mapping' section of the VIT Chennai Campus Capstone Project Registration and Evaluation Portal. The page has a header with the VIT logo and the text 'VIT Chennai Campus Capstone Project Registration and Evaluation Portal'. Below the header is a navigation bar with buttons for 'Panel Mapping', 'External Mapping' (highlighted in blue), 'Review 1', 'Review 2', 'Final Submission', and 'Upload'. The main content area has an 'Upload Type' dropdown set to 'External'. Below it is a 'Select Excel/CSV file' input field with a 'Choose File' button and a 'No file chosen' message. A 'Upload' button is next to it. A 'Reset' button is also present. A file selection dialog box is overlaid on the page, showing a directory path 'Bar... > capsto...' and listing files 'Capstone_Admin_Backend' and 'Capstone_Admin_frontend-main'. The dialog includes standard file selection controls like 'Open' and 'Cancel'.

The admin uploads an excel sheet or csv file with the externals details and after the file is uploaded, the external details are stored in the database and are fetched during external mapping. The list of externals are shown in the dropdowns given in the admin's external mapping page. We can then randomly assign the externals using the randomization logic and using the save button store them in the database.



VIT Chennai Campus Capstone Project Registration and Evaluation Portal

[Panel Mapping](#)[External Mapping](#)[Review 1](#)[Review 2](#)[Final Submission](#)[Upload](#)

TEAM MEMBERS	GUIDE	PANEL MEMBERS	SCHEDULE DATE & TIME	ACTION
24BDS1051	Meena Iyer	Meena Iyer, Suresh Nair, Ravi Kumar	dd-mm-yyyy --:-- <input type="button" value="Calendar"/>	<input type="button" value="Save"/>
24BDS1092	Suresh Nair	Meena Iyer, Suresh Nair, Ravi Kumar	dd-mm-yyyy --:-- <input type="button" value="Calendar"/>	<input type="button" value="Save"/>
24BDS0001-24BDS0002-24BDS0003	—	Valarmathi Sudhakar	dd-mm-yyyy --:-- <input type="button" value="Calendar"/>	<input type="button" value="Save"/>
24BDS1178	Ravi Kumar	Anita Deshmuk	dd-mm-yyyy --:-- <input type="button" value="Calendar"/>	<input type="button" value="Save"/>
24BDS0004	—	Anita Deshmuk	dd-mm-yyyy --:-- <input type="button" value="Calendar"/>	<input type="button" value="Save"/>



VIT Chennai Campus Capstone Project Registration and Evaluation Portal

[Panel Mapping](#)[External Mapping](#)[Review 1](#)[Review 2](#)[Final Submission](#)[Upload](#)

TEAM MEMBERS	GUIDE	PANEL MEMBERS	SCHEDULE DATE & TIME	ACTION
24BDS1051	Meena Iyer	Meena Iyer, Suresh Nair, Ravi Kumar	dd-mm-yyyy --:-- <input type="button" value="Calendar"/>	<input type="button" value="Save"/>
24BDS1092	Suresh Nair	Meena Iyer, Suresh Nair, Ravi Kumar	December, 2025 <input type="button" value="Up"/> <input type="button" value="Down"/> 19 36 Su Mo Tu We Th Fr Sa 20 37 30 1 2 3 4 5 6 21 38 7 8 9 10 11 12 13 14 15 16 17 18 19 20 22 39 21 22 23 24 25 26 27 23 40 28 29 30 31 1 2 3 00 41 4 5 6 7 8 9 10 01 42 <input type="button" value="Clear"/> <input type="button" value="Today"/>	
24BDS0001-24BDS0002-24BDS0003	—	Valarmathi Sudhakar		
24BDS1178	Ravi Kumar	Anita Deshmuk		
24BDS0004	—	Anita Deshmuk		

Review 1, Review 2 and Final submission

For scheduling the date and time for review 1, review 2 and the final submission, the admin uses the calendar option given where the the admin can choose the date and time for the review and can save it. After clicking on save, the details of the review (date and time) is stored in the database.

Logs

- Socket
- Cloudinary
- SLA

Student Connection & Room Setup

```
Connected to MongoDB
[Socket] Student 24BDS1092 logged in – not registered with any guide.
Client connected: YRCZ8rx60_8cxSo0AAAB
Client connected: YRCZ8rx60_8cxSo0AAAB
Incoming members: [ { name: 'Karnaveer Singh', regNo: '24BDS1092' } ]
Client disconnected: YRCZ8rx60_8cxSo0AAAB
```

Student 24BDS1092 connects to the server and is assigned a private room (24BDS1092) for personalized real-time updates. The server logs indicate multiple connection and disconnection events during session initialization.

Team–Guide Request Flow

```
incoming members: [ { name: "Kartaveer Singh", regno: "24BDS1092" } ]  
Client disconnected: YRCZ8rx60_8cxSo0AAAB  
Client disconnected: YRCZ8rx60_8cxSo0AAAB  
[Socket] Delivering real-time status update to student 24BDS1092: Your team request is still pending under guide Suresh Nair.  
Client connected: VcsYck4hl62b000EAAAD
```

```
_tu. new objection( 05040004002370770520L )  
}  
[Socket] Sending live update to student 24BDS1092: Guide has accepted your team.  
[Socket] Broadcasting slot availability update to all users because seat count changed after team acceptance.  
Client connected: -1B_PszCXSytTgTRAAAF  
Client connected: -1B_PszCXSytTgTRAAAF  
[Socket] Serving accepted team data for student 24BDS1092 under guide Suresh Nair.  
Socket -1B_PszCXSytTgTRAAAF joined room 24BDS1092  
Client connected: k5mP4spzhaPdN_1XAAA  
Client connected: k5mP4spzhaPdN_1XAAA
```

The student's team sends a request to Guide Suresh Nair for approval.

Live status update sent: “Your team request is still pending under guide Suresh Nair.”

Upon guide acceptance:

A real-time update notifies the team about the approval.

The seat count for the guide is updated and broadcasted to all teams in the slot booking page.

Guide Room Communication

```
Client connected: k5mP4spzhaPdN_1XAAAH
Client connected: k5mP4spzhaPdN_1XAAAH
Socket k5mP4spzhaPdN_1XAAAH joined room 004
[Upload] Incoming upload request from student 24BDS1092 for submission stage: Abstract
```

Guide Suresh Nair (PID 004) joins their dedicated socket room (004). This enables one-to-one live communication between guide and team members.

Guide receives updates such as when student 24BDS1092 uploads their abstract.

Cloudinary Integration

```
[Upload] Received file: TRC Project Guide.pdf (temp path: public\temp\TRC Project Guide.pdf)
[Cloudinary] Upload response: https://res.cloudinary.com/deybojppm/raw/upload/v1765625207/k1ky5dcyv0vk3daqku6i.pdf
[Upload] Total files uploaded: 1
[DB] Submission data saved for 24BDS1092
[Upload] Completed upload for student 24BDS1092
```

Student uploads file: “TRC Project Guide.pdf” at submission stage Abstract.
File is uploaded to Cloudinary, generating a URL:
e.g., <https://res.cloudinary.com/.../k1ky5dcyv0vk3daqku6i.pdf>
Uploaded file metadata and Cloudinary URL are stored in the database under
the student’s record.

Review and Notifications

```
[Socket] Notifying student 24BDS1092: Your submission ("Abstract") has been accepted by your guide.  
[Socket] Serving accepted team data for student 24BDS1092 under guide Suresh Nair.  
Socket -lB_PszCXSytTgTRAAAF joined room 24BDS1092
```

After guide review and acceptance, the student receives a live notification confirming approval of the submission (“Abstract accepted by your guide”). The system also logs serving accepted team data for the student.

Panel Communication

```
Socket Fr0YELWHyi4an1reAAA joined room 24BDS1092
001 Valarmathi Sudhakar [
{
  name: 'Karnaveer Singh',
  regNo: '24BDS1092',
  _id: '693d4d00496a9e3fd778328f'
}
] Please be ready on thursday
Valarmathi Sudhakar
[Socket] Delivering live chat message to student 24BDS1092: New message sent by guide (Valarmathi Sudhakar).
```

Panels can fetch team details and send live messages to students through socket rooms.

Example log: “Valarmathi Sudhakar: Please be ready on Thursday” delivered as a real-time chat message.

SLA checker

! SLA Reminder: Abstract pending for more than 48 hours Inbox

B barath.t2024@vitstudent.ac.in
to me ▾

Hello Ravi Kumar,

This is an automated reminder that a Abstract submission has been pending review for over 48 hours.

Please log in to the Capstone Portal and take the necessary action.

- Capstone Admin

```
MongoDB connected
Running automated SLA check...

[SLA] SLA check started (showing ONLY breaches)

[SLA] SLA BREACHED | Guide: Ravi Kumar | Team: 693d1fe5330b7d7a26327c9c | Submission: Abstract | Pending: 56h 58m
```

To make sure smooth and on time completion of the project evaluation without delays, an SLA feature has been added to send mail to the guides whose review for the submission has been pending for more than 48 hours (this can be changed depending on the need).