

# Weekly Progress Report (WPR)

## Amity School of Engineering & Technology

B.Tech (CSE) VII Semester

WPR 2

Duration: 20/05/2025 to 26/05/2025

Students Weekly Progress Report (WPR) for Odd Semester of session 2025-2026

<b>To be filled by Students</b>	
Students Name	Aaron Johnson Thomas
Roll no.	2314
Enrollment no.	A2305222314
Project Title finalized, if Yes, give name, if NO, give reason	DIA-CoE Projects DARPAN
Synopsis submitted	This project delivers a full-featured web platform for managing research projects at DIA-CoE DRDO SSPL. It simplifies the process of handling project records while enforcing strict validation to ensure data reliability. Key features include a fast search system, options to export data, and detailed activity tracking for each user. By clearly separating administrative and viewer roles, the platform promotes secure and organized access to project data, ultimately improving operational transparency and efficiency within the organization.
Literature review	We've explored key technologies such as Flask for backend development, SQLAlchemy for database interactions, and Bootstrap for the frontend. In addition, we reviewed similar research management systems to identify best practices in validation, user roles, and activity logging.
Technical & Economical Feasibility	The project is technically feasible with the help of open-source tools and libraries. From a cost perspective, it's highly economical—there's no need for any proprietary software or hardware.
Bill of Material	0
Project Progress Schedule (PERT Chart)	CRUD Functionality Implementation; User Action Logging Chart System; Export to CSV/PDF Feature
Design of critical components	-
Fabrication work (give %)	-
Experimental work (give %)	-
Result and Analysis	Initial phases of the project are successfully completed. Requirements were clearly defined, leading to a solid system design using Flask and Bootstrap. User authentication with role-based access is in place, and field validation through Flask-WTF ensures data integrity. These

	completed steps confirm a strong and secure foundation for the next stages.
Report writing	-
Signature of students	Aaron Johnson Thomas

Work done in this week:

- Successfully implemented full Create, Read, Update, and Delete (CRUD) functionalities for managing project entries within the system.
- Integrated role-based access control to ensure that only authorized users (e.g., admins) can make changes, while viewers have read-only access.
- Initiated the development of a basic logging mechanism to monitor and record user activities, such as data updates.
- Started designing the export functionality, laying the groundwork for data download options in CSV and PDF formats.
- Engaged in discussions with scientists from DRDO SSPL to align system features with actual workflow requirements.
- Refined the user interface based on feedback from both scientists and my mentor to enhance usability and navigation.
- Conducted thorough testing of the new features, including CRUD operations and UI updates, to ensure stability and proper functionality.

To be filled by Guide (strike off whichever is not applicable)	
Performance of students is satisfactory	
Performance of students is unsatisfactory	
A warning to be issued to student(s) (Name)	
Student was not well (Name)	
Date	Signature of Guide

Date:  
26-05-2025