**Internship Weekly Report**

**By Pankaj Basnet**

**From 28th Apr  to  2nd May, 2025 (Week 3)**

**Assignments and Status:**

Trello Card Link: <https://trello.com/c/DLEkrNgP/10-update-blog-project>

This week focused on developing and integrating Django backend services to complete core blog functionalities with React-based frontend features , including user management, post handling, comment systems, and dashboards.  
  
Below is a table summarizing the daily progress for each development task.

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| --- | --- | --- |
| Date | Tasks | Time Spent |
| April 28, 2025 | Django backend setup: User registration, login, password reset, and profile update | 6 hours |
| April 29, 2025 | React frontend: Profile Page UI creation and integration with API | 5.5 hours |
| April 30, 2025 | Roles setup (admin, author); Post model, comments, likes, draft system | 6 hours |
| May 1, 2025 | React frontend for post detail views with CRUD | 5 hours |
| May 2, 2025 | Groups, custom permissions in django backend using Admin panel as well as APIs | 6.5 hours |

# Outcomes / Learning:

- Developed a fully functional backend for blog operations using Django REST Framework.  
- Implemented user roles and group permissions by extending the built-in Django `Group` model and access control.  
- Built frontend components in React for user profile, post management, and content display.  
- Enabled CRUD operations for posts with authentication-aware Django REST Framework’s generic class based views.  
- Implemented a searchable and filterable list of posts via Django API and React UI.

- Implemented Django APIs for edit permissions to a group, group management and user’s permissions .  
- Created a real-time dashboard for authors to view post and comment statistics in React.  
- Incorporated error handling, protected routes, and dynamic routing in React.

# Conclusion:

This week marked the successful integration of frontend and backend systems in a Django-React application. The project demonstrate the ability to architect scalable APIs, implement secure user access, and design dynamic user interfaces.