# Reflection Report Eduvance Project



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# 1. Introduction

- The EduVance project was a collaborative effort aimed at developing a comprehensive educational management system.
- The project spanned multiple sprints, focusing on features like authentication, user management, class and course management, and attendance systems.
- This report summarizes our experience, challenges faced, and key takeaways from the project.

# 2. Key Experiences

#### • Team Collaboration:

- Daily standups and sprint meetings helped us stay aligned and address issues promptly.
- Roles were flexible, allowing team members to explore front and backend development.

#### • Technical Learning:

- Gained hands-on experience with TypeScript, MongoDB Atlas, and Cloudinary for file management.
- Learned to implement JWT-based authentication and authorization for secure access control.

#### Agile Methodology:

- Adopted Agile practices, including sprint planning, task division, and retrospective meetings.
- Learned to prioritize tasks and adapt to changing requirements.

# 3. Challenges Faced

#### • Communication Gaps:

- Miscommunication about database schema and task overlaps led to rework and delays.
- Resolved by improving documentation and holding regular feedback sessions.

#### • Technical Hurdles:

- Faced issues with API integration, route conflicts, and dependency management.
- Challenges with MongoDB connectivity and TypeScript conversion were resolved through research and teamwork.

#### • Time Management:

- Balancing project tasks with academic commitments (e.g., midterm exams) was difficult.
- Addressed by adjusting sprint lengths and prioritizing critical tasks.

# 4. Key Takeaways

#### • Importance of Planning:

- Proper sprint planning and task division are crucial for efficient project execution.
- Breaking tasks into epics, user stories, and subtasks helped us stay organized.

#### • Adaptability:

 Flexibility in sprint lengths and task assignments allowed us to handle unexpected challenges.

### • Testing and Debugging:

- Learned the importance of thorough testing to identify and resolve issues early.

#### • Teamwork and Communication:

- Regular standups and retrospectives improved team coordination and transparency.

# 5. Conclusion

- The EduVance project was a valuable learning experience that enhanced our technical and project management skills.
- Despite the challenges, we successfully delivered key functionalities and improved our ability to work as a team.
- We look forward to applying these lessons in future projects to achieve even greater success.