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INDUSTRIAL TRAINING

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AGENDA

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Internship Overview

Project: Asset Development Integrated Review (ADIR)

Role: Backend Developer Intern

Focus Area: Backend Services and Agile development
Practices

Main Tools:

- C# (.NET), Azure DevOps, Sonarcloud
- Agile (Scrum), Git, SQL

Internship Overview - Project

Project: Asset Development Integrated Review (ADIR)

Main Objectives:

- Centralized Data Management
- Access Controls Implementation
- Workflow Engine Integration
- Minute of Meeting (MoM) module
- Support for New & Existing MPM Workflows

Daily Workflow

- Daily Standups:
 - Shared Progress & Blockers
 - Practiced concise technical updates
- Intern Progress Meetings:
 - Reviewed task alignment
 - Received mentorship & technical feedback
- Agile Ceremonies Attended:
 - Sprint Planning
 - Sprint Retrospective

Agile Practices

- Followed Agile Scrum Methodology
- Used Azure DevOps for task tracking and sprint visibility

Definition of Done (DoD)

- Sprint Requirements
 - User stories refined and ready before sprint.
 - Sprint goals mapped to product goals.
 - Daily standups capped at 15 minutes.
- Work Item Criteria
 - Clear, up-to-date descriptions.
 - Acceptance criteria, personas, priorities in place.
 - All bugs have repro steps.
 - Testing Requirements:

Story Point	Task Complexity	Amount of effort required	Amount of time required
1	Not Complexity	Minimum	1-2 hours
2	Little complexity	Minimum	half day
3	Low complexity	Mid	1 day
5	Medium complexity	Moderate	2 days
8	Medium Complexity	Severe	3 days
13	High Complexity	Maximum	4-5 days

My Contributions

- Cleaned and refactored legacy backend code
- Implemented SonarCloud quality fixes
- Reviewed and submitted pull request
- Backed up databases and reviewed task evidence
- Worked closely with the technical coach during intern updates

Skills Learned

Technical Skills

- Code refactoring and backend optimization
- Static code analysis with SonarCloud
- Writing effective pull request descriptions
- Development database management
- Understanding testing coverage and requirements

Agile & Collaboration Skills

- Applying Definition of Done
- Task tracking in Azure DevOps
- Participating in daily standups, reviews, and retrospectives
- Communicating progress during technical updates





Challenges Faced

Technical Issues	Debugging and fixing errors in code, integrating third-party services, managing database connections, and handling authentication processes.
Time Management	Balancing multiple tasks and projects simultaneously, meeting deadlines, and ensuring thorough testing and debugging.
Learning Curve	Quickly adapting to new frameworks and tools, understanding complex project requirements, and applying theoretical knowledge to practical tasks.

Conclusion & Reflection

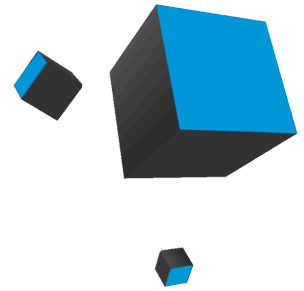
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Throughout the internship, I gained a deeper understanding of backend development within a real-world Agile team. Working with the ADIR FDP Online project taught me the importance of writing clean, maintainable code and the value of thorough static analysis and peer reviews. Regular interaction with the technical coach helped me identify areas for improvement and allowed me to grow technically and professionally. Being part of sprint cycles, standups, and task reviews gave me hands-on experience in how a collaborative and iterative development process operates in practice.

Suggestions



Project Rotation: Allowing interns to rotate through different projects can give them exposure to various aspects of software development, making their learning experience more well-rounded.



Documentation Practices: Encouraging thorough documentation of all projects and tasks can improve knowledge sharing and make it easier for interns to refer back to their work and learn from their experiences.





Thank You

30 July, 2025