Onboarding Manager

CS 3704

Team: Scrum Masters

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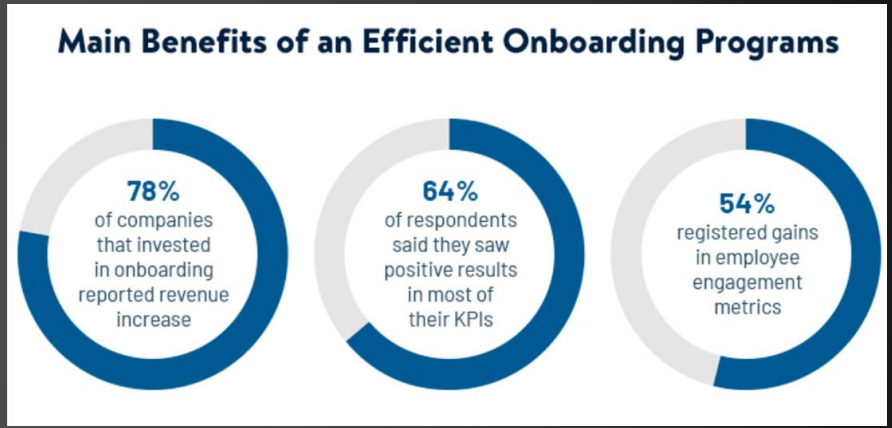
Original Problem Statement

- Challenges during onboarding
- Confusing and Time consuming
- Manual setup of complex development environment
- Scattered documentation
- Other developers diverted from their tasks



Proposed Solution

- Automated system used to streamline onboarding process
- Configures development environments
- Provides walkthrough of complex project architectures
- Offers role-specific documentation

Related Work: Developer Retention Article

Similar Tools

- Garden
- Whatfix

High Turnover Rate

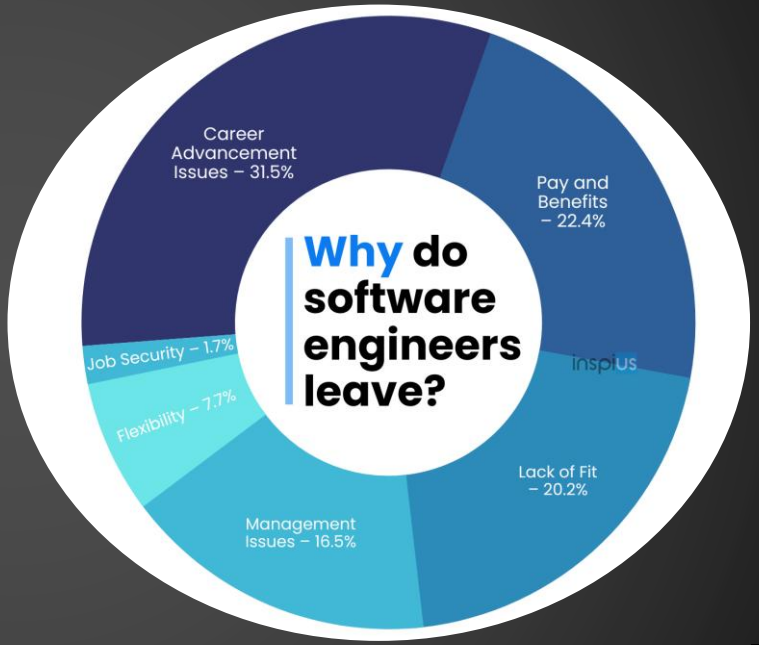
- Software Engineer turnover 21.7%
- Costs up to 250% of salary

Knowledge Loss

- Losing experienced developers

Retention Challenges

- Lack of growth, poor leadership, and unchallenging work



Visual Representation

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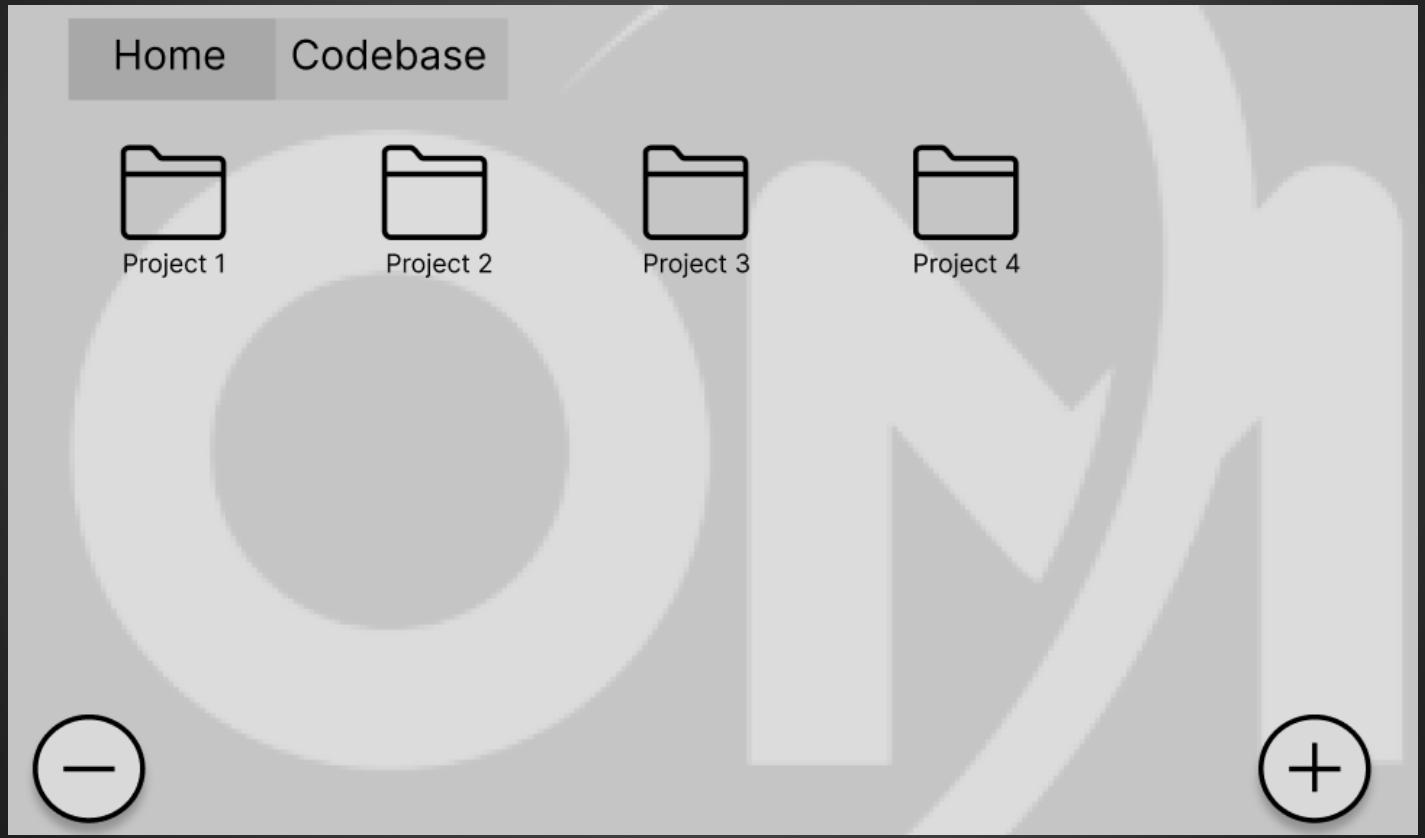
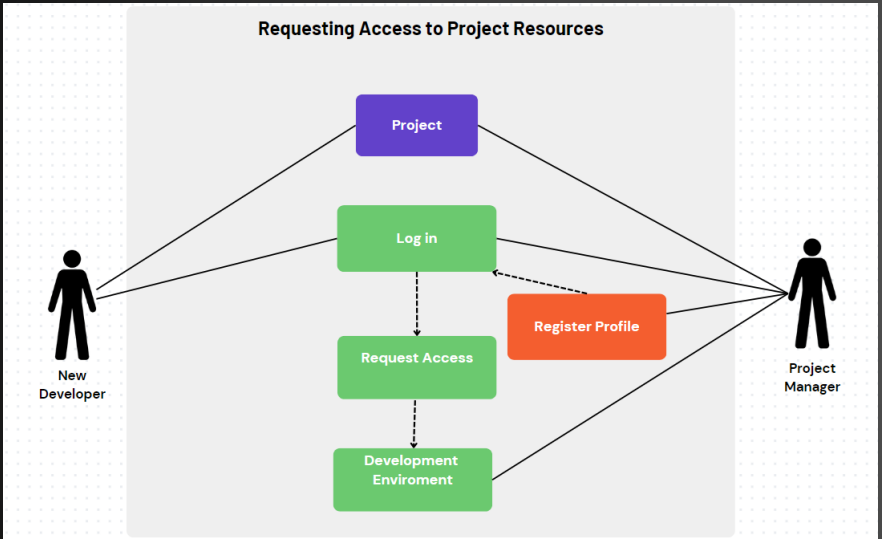
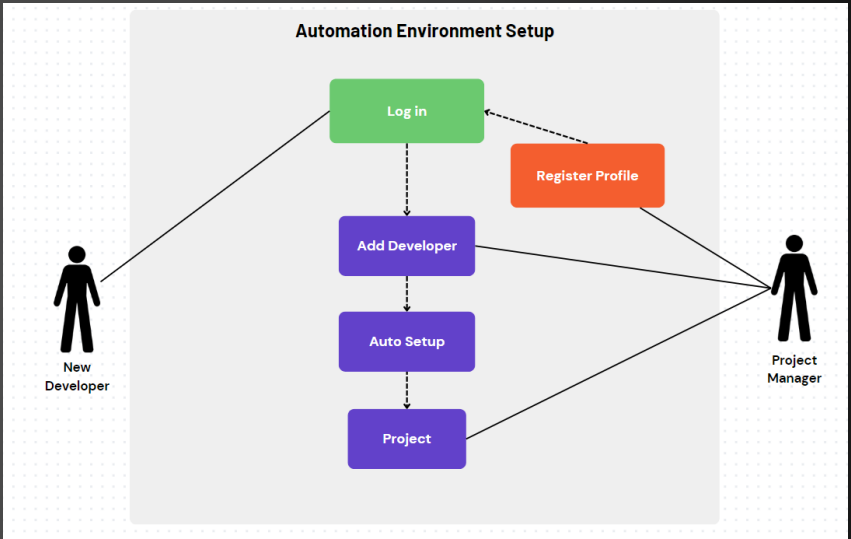
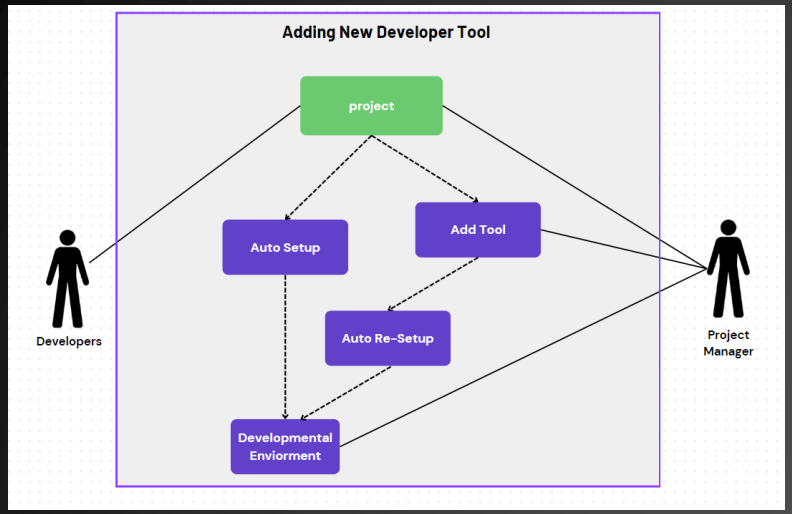
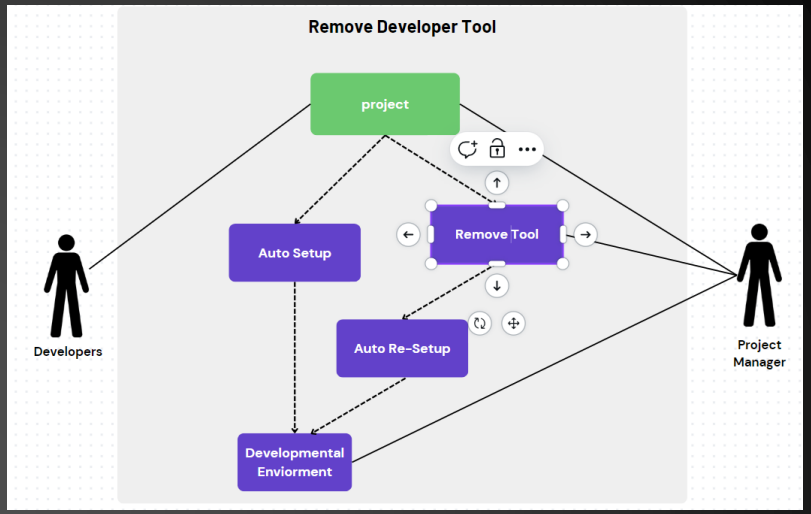


Updated Use Cases






Adding New Developer Tool
project
Auto Setup
Add Tool
Auto Re-Setup
Developmental Enviorment
Developers
Project Manager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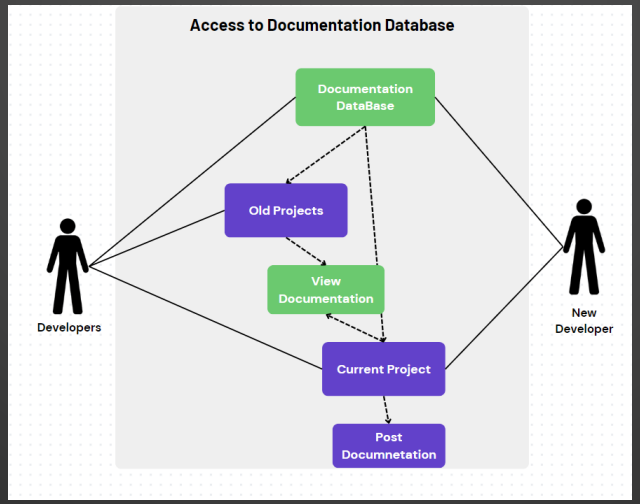
Access to Documentation Database
Documentation DataBase
Old Projects
View Documentation
Current Project
Post Documnetation
Developers
New Developer

Concepts Discussed in Class/ How They Helped

Incremental process

- Opportunities for continuous feedback
- Requires extensive planning and tracking

User stories

- Helps prioritize high-value features
- Breaks down large tasks into manageable chunks

Black box testing

- Tests from user’s perspective
- Doesn’t test internal code or logic

Limitations and Future Work

Limitations:

- Focus on Core Features
- Limited Test Coverage
- Integration Challenges

Future Work:

- Enhanced Testing
- Performance and Security
- Feedback Integration

What We Learned

- Incremental Model Benefits
- Importance of Requirements Analysis
- Use of Design Patterns
- Effective testing Strategies
- Proper Team Practices