



# Progress Tracking - Smart Notification Service

This folder tracks day-wise progress for the Smart Notification Service project.



## Overall Progress

Day	Date	Focus Area	Status	Time Spent
Day 1	Nov 2, 2025	Foundation - Entities & Repositories	✅ Complete	4 hours
Day 2	TBD	DTOs & Service Layer	⌚ Pending	-
Day 3	TBD	Email Integration (SendGrid)	⌚ Pending	-
Day 4	TBD	Rate Limiting (Redis)	⌚ Pending	-
Day 5	TBD	REST API & Controllers	⌚ Pending	-
Day 6	TBD	Async Processing & Retry Logic	⌚ Pending	-
Day 7	TBD	Testing & Documentation	⌚ Pending	-
Day 8	TBD	Frontend Setup (React)	⌚ Pending	-
Day 9	TBD	Frontend UI Components	⌚ Pending	-
Day 10	TBD	Deployment & Final Testing	⌚ Pending	-



## Metrics Summary

### Code Statistics







- **Total Files:** 7 Java files + 1 test file
- **Lines of Code:** ~600
- **Test Coverage:** 100% (4/4 tests passing)

- **Build Status:**  SUCCESS

## Database

- **Tables:** 2 (notifications, templates)
- **Indexes:** 5
- **Relationships:** 1 foreign key

## Features Completed

-  Core domain model
-  Repository layer with custom queries
-  Basic CRUD tests
-  Service layer (Day 2)
-  REST API (Day 5)
-  Email integration (Day 3)

## Current Sprint: Backend Development (Days 1-7)

### Completed

- ☒ Day 1: Foundation setup with entities and repositories

### In Progress

- ☐ Day 2: DTOs and service layer

### Upcoming


- ☐ Day 3: Email integration
- ☐ Day 4: Rate limiting
- ☐ Day 5: REST API
- ☐ Day 6: Async processing
- ☐ Day 7: Testing

# Daily Progress Files


## Day 1 - Foundation Setup

Status:  Completed

### Highlights:

- Created 3 enums (NotificationStatus, NotificationChannel, NotificationPriority)
- Implemented 2 entities (Notification, Template) with 26 total fields
- Built 2 repositories with 17 custom query methods
- Wrote 4 tests - all passing 
- Fixed H2 database JPQL compatibility issues

## Quick Links

- [Main Project Plan](../../#  Smart Notification [Service.md](#))
- [Build Status](#)
- [Day 1 Progress](#)

## Notes

## Key Decisions

1. **Database:** Using H2 for development, PostgreSQL (Supabase) for production
2. **Architecture:** Starting with monolithic Spring Boot, can extract to microservices later
3. **Testing Strategy:** Write tests alongside implementation (not at the end)

## Blockers

- None currently

## Next Session

- Start Day 2: Create DTOs and implement service layer

*Last Updated: November 2, 2025*