

# Noternal Script

## Short personal bio - 15-30 seconds

- My name is Michael Hardcastle.
- I live in South Jordan, UT.
- I am specializing in Java at DevMountain.
- Before DevMountain I was working adjacent to software development in analytical and administrative roles.
- I've always wanted to do software development and finally have the opportunity to take a course.
- I'm very organized at work and utilize several apps to help with that. (to-dos, case management, note keepers).

## Elevator pitch - 15-30 seconds

- Want to build an app that I can quickly create notes in with the ability to organize on the fly.
- Noternal allows you to create a quick note with tags and search using those tags.
- Tags can be used for many things, to organize your notes, add statuses for to-dos, task numbers for documentation.
- For the frontend I used HTML, CSS, and Javascript with Bootstrap and Thymeleaf.
- For the backend I used Java and Maven with the Spring Boot framework (Spring Web, Spring Security, Spring Data JPA).
- For data persistence I used JPA and Hibernate to connect to a Postgres DB.

## Features demo - 2 minutes

1. Provide use case: I'm going to document a refactor task within my code.
2. Comment code with case number.
3. Register and then log in.
4. Create a new note with a description of the task and NoternalDevelopment tag.
5. Walk through the code path.
  - a. Axios call is sent to my Java controller which validates and sends it to the service level.
  - b. The service level checks the tags to see if they need to be created, adds them to the note object, and sends the note and a note event (for history) to the repository.
  - c. The repository sends the data to the database where it persists.
  - d. The new note is sent back up through the chain to be displayed in the view.
6. Add Tags: RefactorCode, ToDo
7. Remove ToDo tag and add InProgress tag.
8. Search all tags with InProgress.

## Thoughtful close - 10-15 seconds

- Making this project really showed me that there are a million ways to develop. It was a trip to see the difference between my foundations project and this one. From Java's object-oriented programming vs Node.js functional programming to using JPA vs SQL queries to communicate with the DB.