

## LEARNING JOURNAL

Name: Mark Aaron Mayor  
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<b>Department</b>	<b>Activity/Assigned Task</b>
<b>App Developer (IT Department)</b>	<p>While exploring real-time transcription solutions, I came across WhisperLiveKit, a library designed for faster transcription with minimal latency and high accuracy. After encountering some technical difficulties testing it with a microphone, I shifted focus to a new project on Optical Character Recognition (OCR).</p> <p>I researched several open-source OCR libraries, including Tesseract and EasyOCR, and found Paperless, a complete package for scanning, storing, and managing document metadata in a Docker environment. However, when testing Paperless with Tesseract, I ran into accuracy issues with document scans. Instead of fixing the OCR within Paperless, I decided to use the Gemini API's free model for more accurate text extraction. I created a simple Python command-line script to automate this process.</p> <p>At this point, I developed a basic Minimum Viable Product (MVP). The MVP focused on the core functionality—extracting text from documents—allowing me to validate the concept before investing time in more features. The importance of building an MVP became clear, as it helped me focus on what mattered most, avoiding unnecessary complexity early on.</p> <p>After completing the MVP, I moved on to developing a user interface (UI) to make the tool more accessible. The project reinforced the value of creating dynamic, scalable software. Prioritizing the MVP and iterating quickly allowed for continuous improvements and ensured that the system could be easily deployed and adapted to various environments.</p>

In the end, this experience highlighted that a good program is built on a solid process: starting with an MVP, iterating based on real feedback, and ensuring scalability and maintainability for the future.



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