



Introduction

In our fast-paced healthcare landscape, deciphering handwritten prescriptions and navigating medication prices can be daunting. That's where Parallel Pharmacy comes in. Our project offers a solution to these challenges, streamlining prescription management and empowering patients to make informed decisions about their healthcare needs.

Problem Statement

Incomprehensible handwriting on medical prescriptions leads to errors and risks patient safety, while opaque medication pricing adds financial strain. Traditional methods are inefficient, calling for a solution that digitizes prescriptions and provides real-time price comparisons.

Solution

Parallel Pharmacy employs OCR technology to digitize handwritten prescriptions swiftly and accurately, reducing errors and enhancing patient safety. Additionally, our platform allows patients to compare medication prices across pharmacies, empowering them to make cost-effective choices without compromising on quality.

Epoch	Accuracy (%)
30	70.67
40	71.93
50	72.12

TABLE 1. The model got 72.12% accuracy when data splitting ratio is 90:5:5 with epoch 50

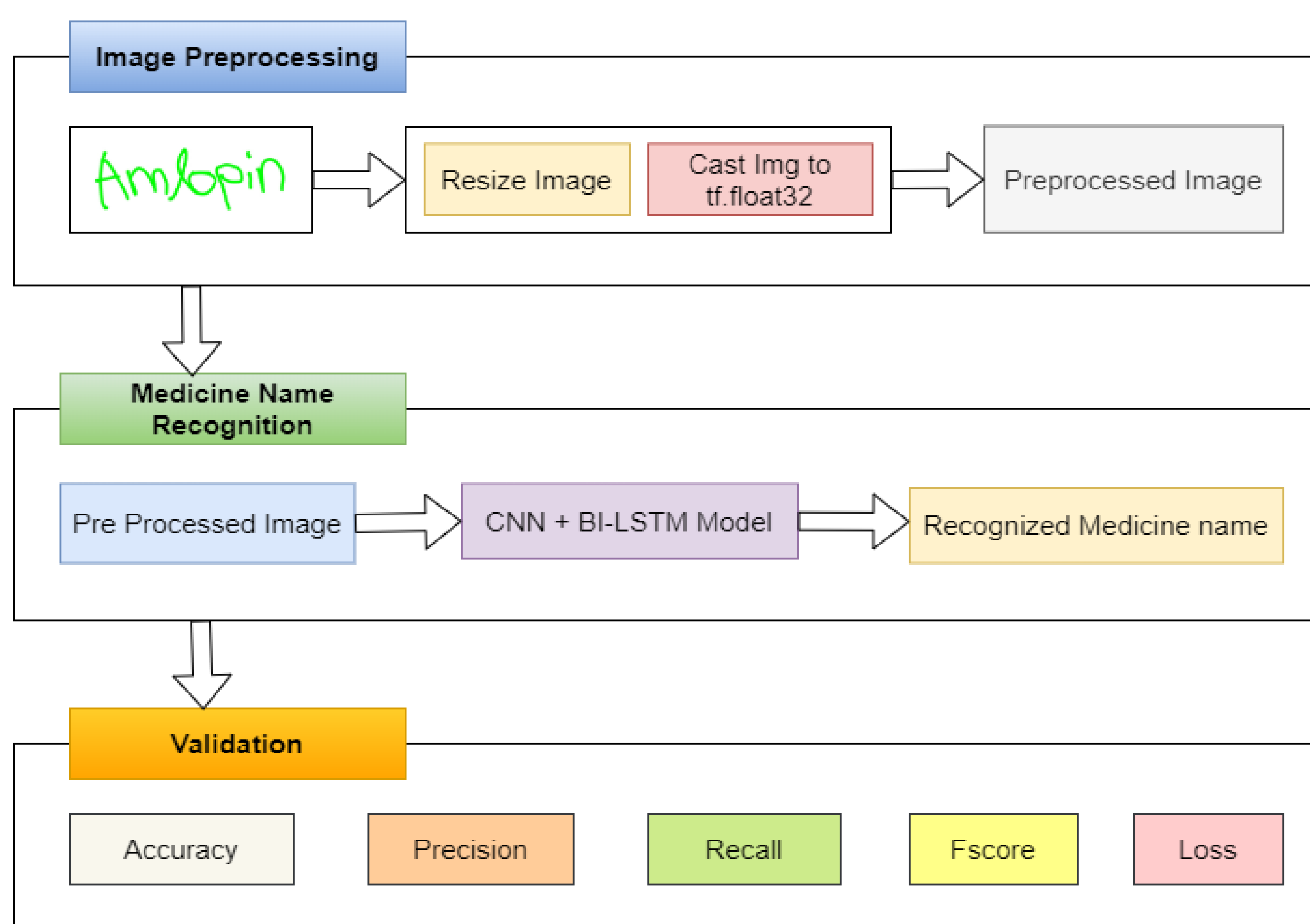


Fig. 1. Architecture Diagram

Techniques Utilized



This project utilizes Java for backend development



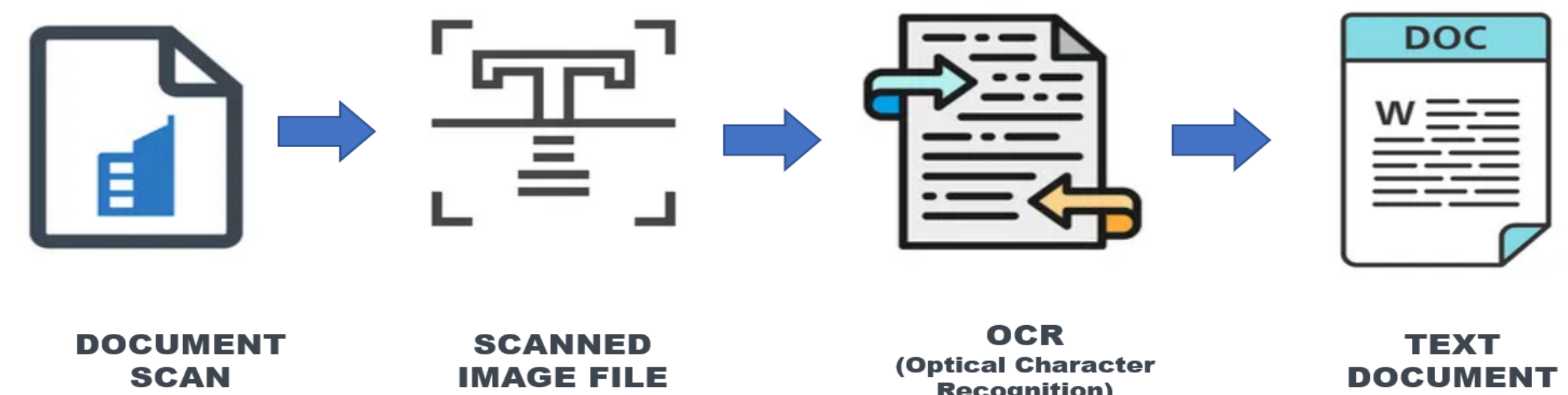
CSS for front-end styling, and HTML for structuring the web pages and displaying content on the front end of the project.



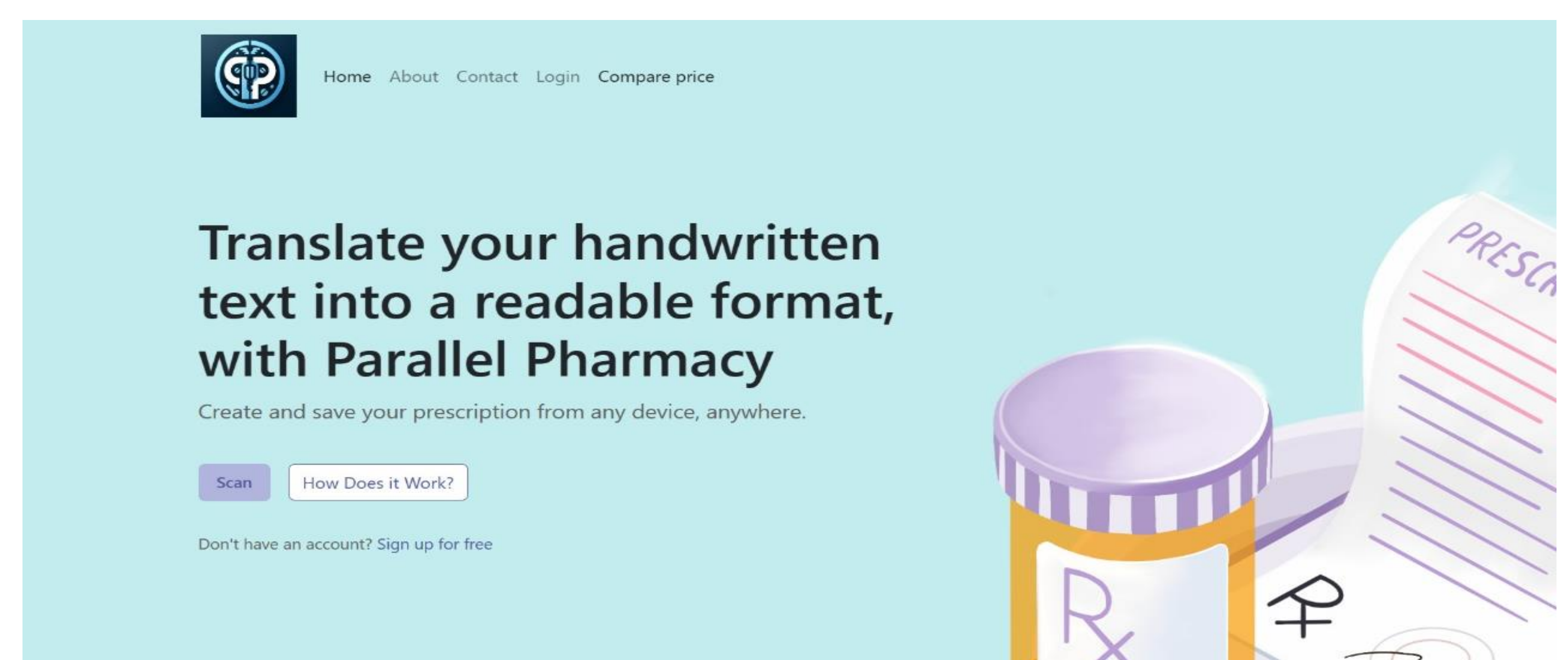
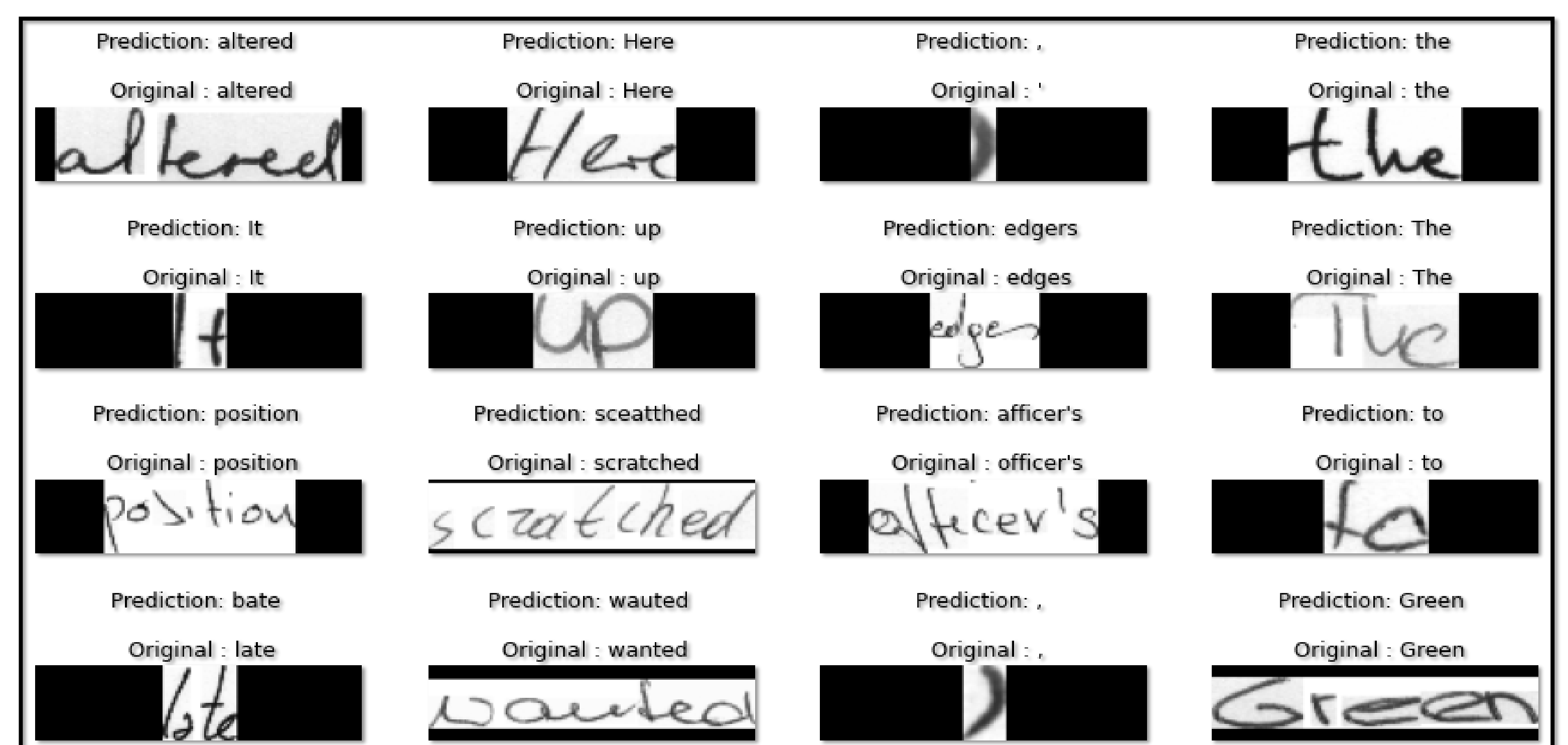
Python is used for implementing OCR technology and data scraping functionalities.



SQL databases are employed for storing and managing prescription data, user information.



User Interface/Demo Snapshots



Achievement

Successful integration of multiple technologies and techniques to address critical challenges in healthcare.

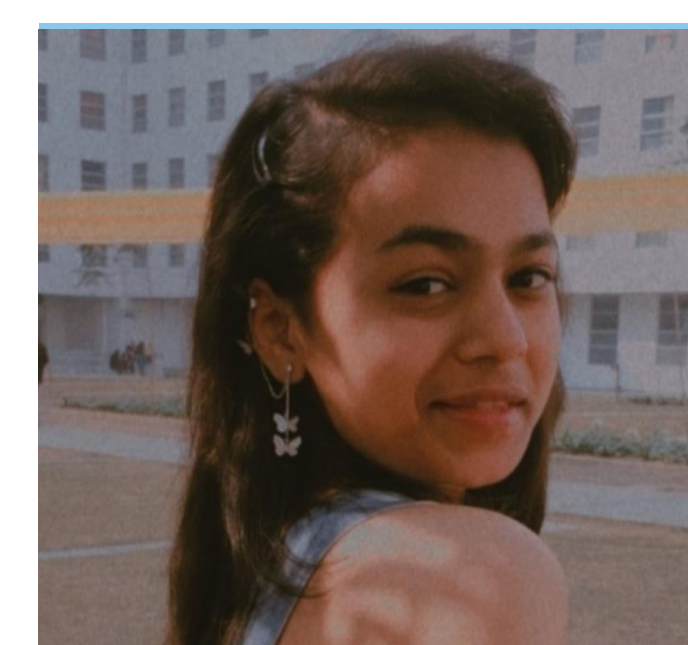
Conclusion

With Parallel Pharmacy, we're revolutionizing prescription management and medication affordability. By leveraging technology, we're improving patient safety, promoting financial transparency, and ensuring access to quality treatment.

Team



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