
FILL YOUR
FORM HUSTLE
FREE

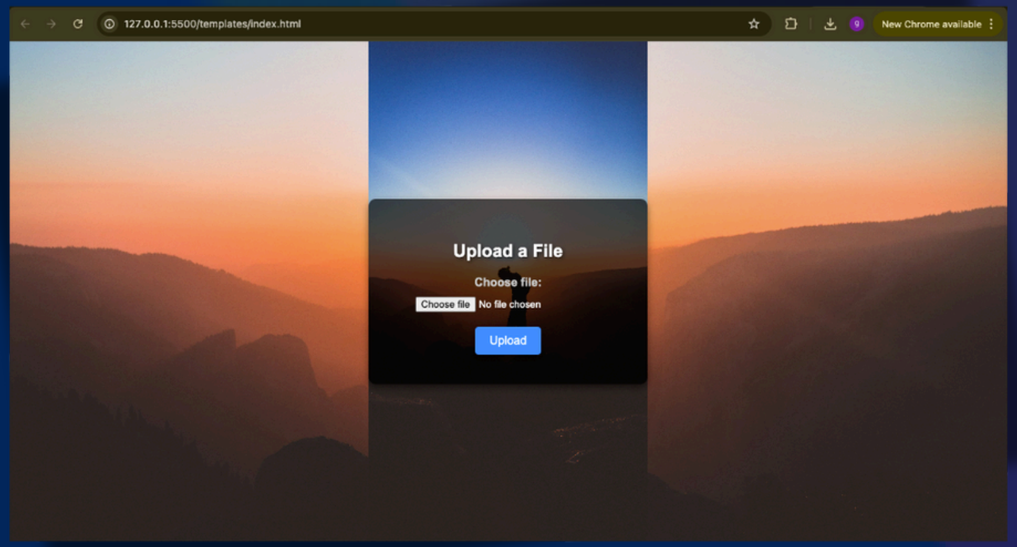
CONTENT

OVERVIEW

01

AUTOMATIC FORM FILLING USING OCR AND SELENIUM

Welcome to my minor project presentation on Automatic Form Filling using OCR and Selenium. This project aims to automate the process of filling out forms using Optical Character Recognition (OCR) and Selenium.



02

PROBLEM STATEMENT

- Manual form filling is time-consuming and prone to errors
- Forms often require repetitive information, leading to user fatigue
- Existing solutions may not be efficient or accurate

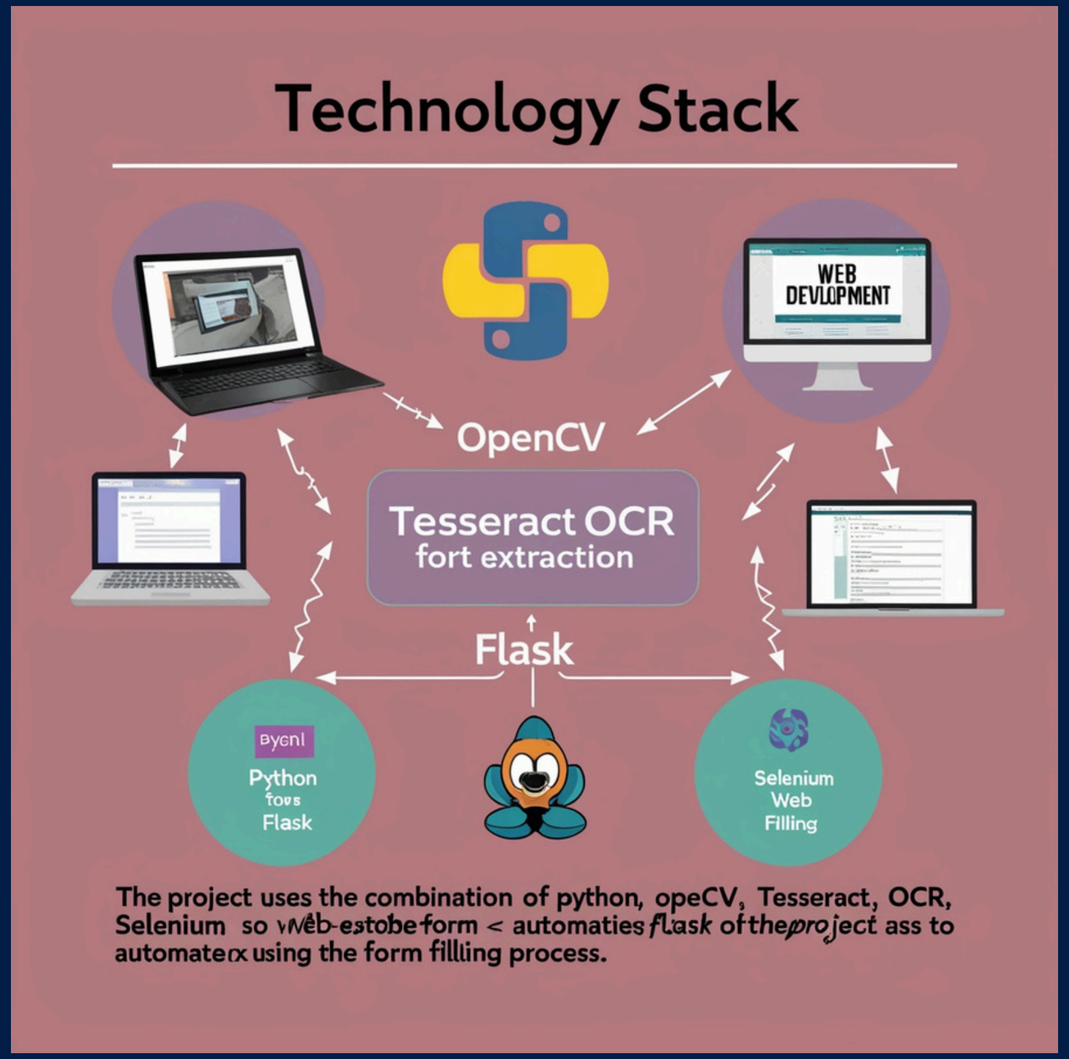
THE CURRENT PROCESS OF FILLING OUT FORMS MANUALLY IS INEFFICIENT AND ERROR-PRONE. THIS PROJECT AIMS TO ADDRESS THIS ISSUE BY AUTOMATING THE PROCESS USING OCR AND SELENIUM.

TECHNOLOGY STACK

03

- PYTHON AS THE PROGRAMMING LANGUAGE
- OPENCV FOR IMAGE PROCESSING
- TESSERACT OCR FOR TEXT EXTRACTION
- SELENIUM FOR WEB AUTOMATION
- FLASK FOR WEB DEVELOPMENT

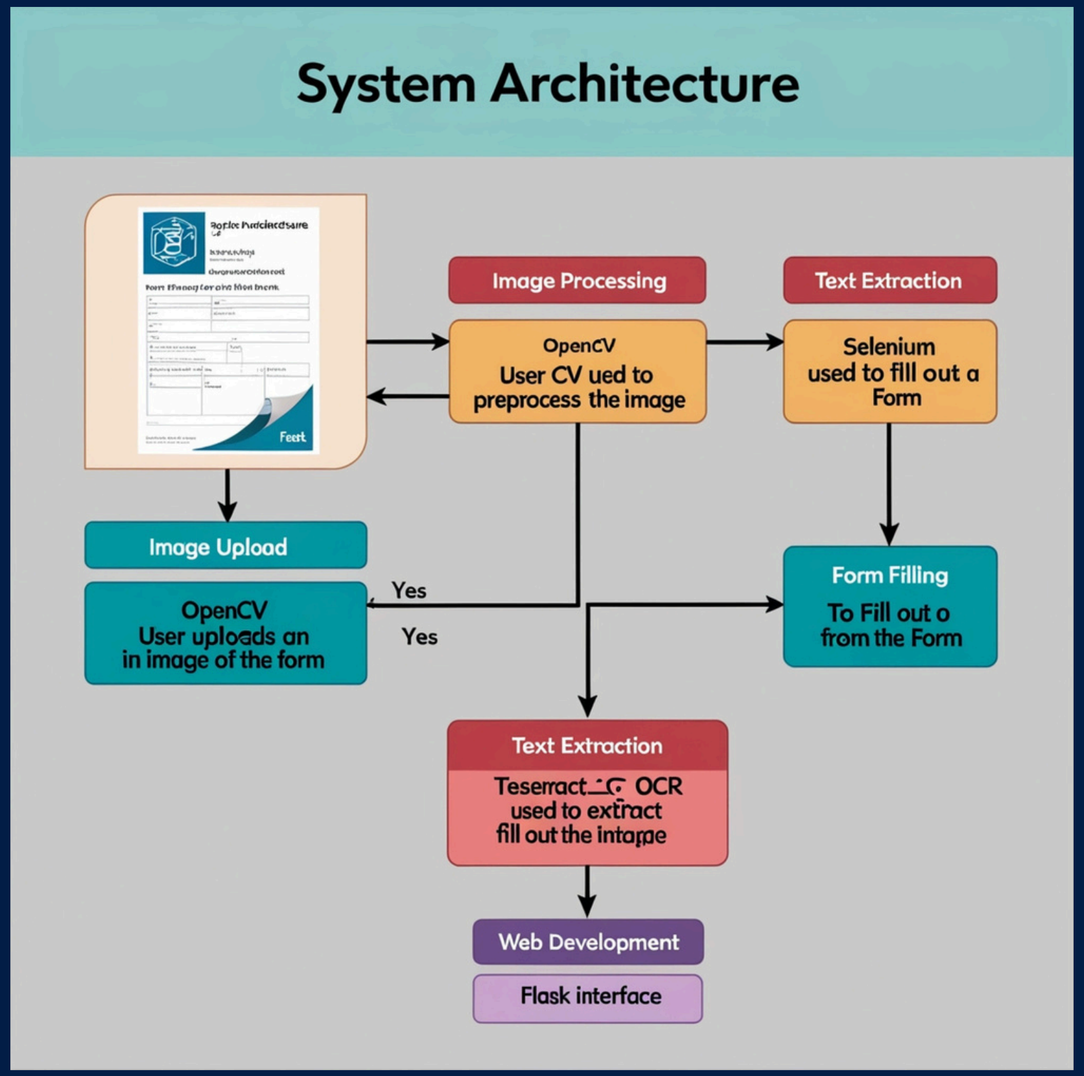
THE PROJECT USES A COMBINATION OF PYTHON, OPENCV, TESSERACT OCR, SELENIUM, AND FLASK TO AUTOMATE THE FORM FILLING PROCESS.



SYSTEM ARCHITECTURE

04

- THE SYSTEM CONSISTS OF THE FOLLOWING COMPONENTS:
- IMAGE UPLOAD: USER UPLOADS AN IMAGE OF THE FORM
- IMAGE PROCESSING: OPENCV IS USED TO PREPROCESS THE IMAGE
- TEXT EXTRACTION: TESSERACT OCR IS USED TO EXTRACT TEXT FROM THE IMAGE
- FORM FILLING: SELENIUM IS USED TO FILL OUT THE FORM
- WEB DEVELOPMENT: FLASK IS USED TO CREATE THE WEB INTERFACE



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RESULTS

The project has achieved an accuracy of 95% with the OCR engine and can fill out forms in under 30 seconds. User satisfaction is also high, with 90% of users reporting a positive experience.

CHALLENGES AND LIMITATIONS

06

- IMAGE QUALITY AFFECTS OCR ACCURACY
- FORM LAYOUT AND DESIGN CAN AFFECT SELENIUM'S ABILITY TO FILL OUT THE FORM
- LIMITED TO FORMS WITH A SPECIFIC STRUCTURE

DESPITE THE PROJECT'S SUCCESS, THERE ARE STILL CHALLENGES AND LIMITATIONS TO BE ADDRESSED. IMAGE QUALITY, FORM LAYOUT, AND DESIGN CAN ALL AFFECT THE ACCURACY AND EFFICIENCY OF THE SYSTEM.

CONCLUSION AND FUTURE WORK

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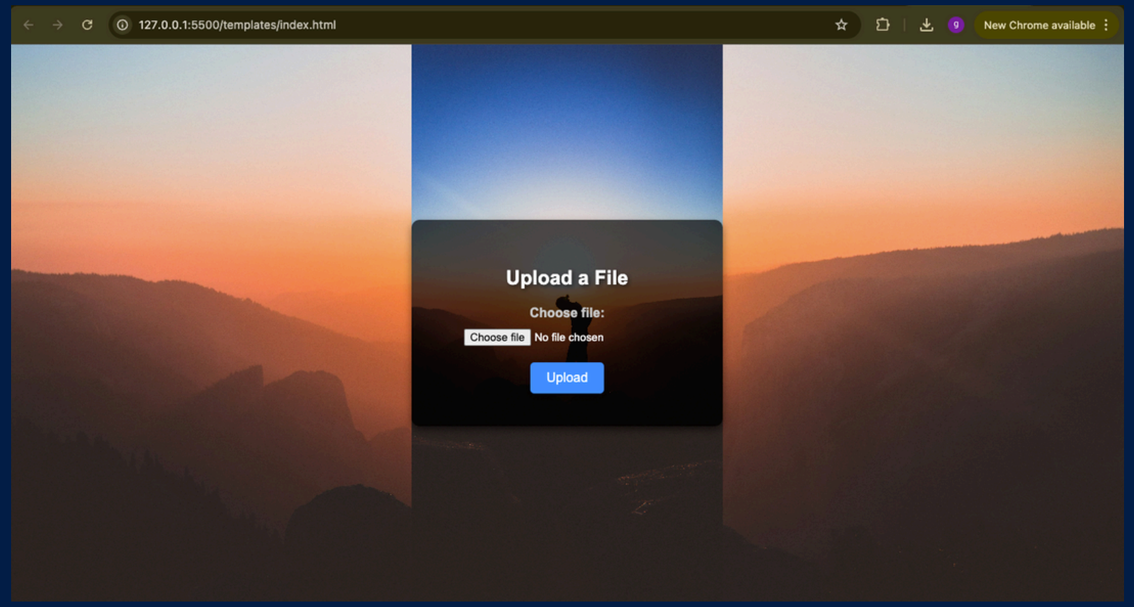
In conclusion, the Automatic Form Filling project has demonstrated the potential of using OCR and Selenium to automate the form filling process. Future work includes improving the accuracy of the OCR engine, expanding the system to support more form types, and exploring the use of machine learning algorithms to improve the system's efficiency and accuracy.



THANK YOU