

oneAPI

Gen*Ai* HACKATHON

- An *LLM* Challenge

Team Name : Team BhuMe

Problem Statement : Generative AI Large Language Models Fine Tuned For Legal Practice Platform



Problem Statement

Generative AI Large Language Models Fine Tuned For Legal Practice Platform

Who is the Customer?

Property Lawyers working as empaneled lawyers for Financial Institutions

What is the Problem?

Preparing Search Reports is manual work and takes up to 5 days

What is the Market Size?

5000000+ home loan originations + collateral backed loans need search reports certified by lawyers. Each search report is paid INR 3000 bringing the total market to INR 1500 Crs annually.

Key Competitors?

Libra – Legal App by VakilSearch

Unique Idea Brief (Solution)

What pinches the shoe of Lawyers?

Property Data on Registration website is not cleanly segregated into Plot, Survey, Khasra, Ward, etc. columns. Therefore, as a lawyer, I have to employ upto 10 people in my office to search relevant entries for a given property through the government website. This is the bottleneck for any lawyer currently.

Finding All Relevant entries from Government Registration Website for a given property takes manual effort up to 40 man-hours and is error-prone.

What would the best experience look like for Lawyers?

As a lawyer, When a new case for search report comes from the bank, I want to be able to enter the entire property schedule say, "Plot 2/12, Khasra 19, Mouza Nagpur Gramin, District Nagpur Sheher" into an input box on government website. This search should fetch me the exact relevant search entries for the plot I entered. It should handle all edge cases well.

Features Offered

Experiences offered:

1. Download relevant property data like a superhuman
2. Never miss any registration data for a given property anymore
3. Prepare and submit branded reports automatically

Features offered:

Download relevant property data like a superhuman

1. Selenium based automated download of property data from government website
2. Parse sentence structure of property schedule into JSON data intelligently

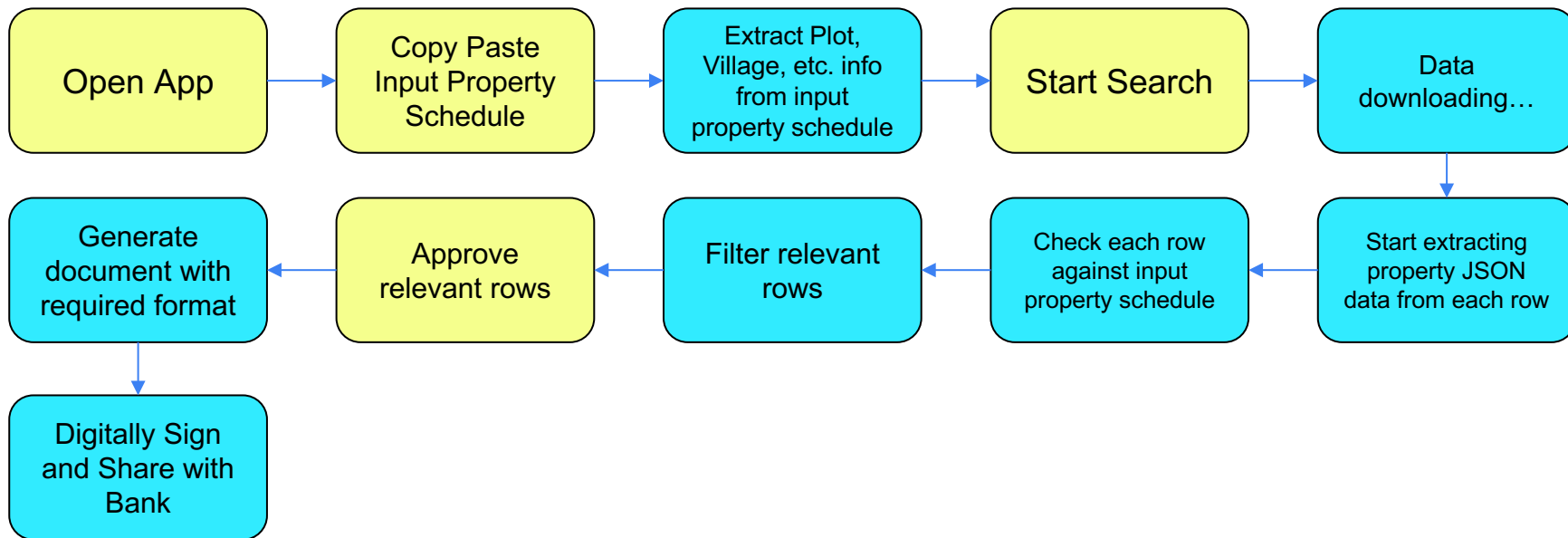
Never miss any registration data for a given property anymore

1. Automated shortlisting of registration data based on property schedule entered by user

Prepare and submit branded reports automatically

1. Automated PDF generation with relevant registration data

Process flow

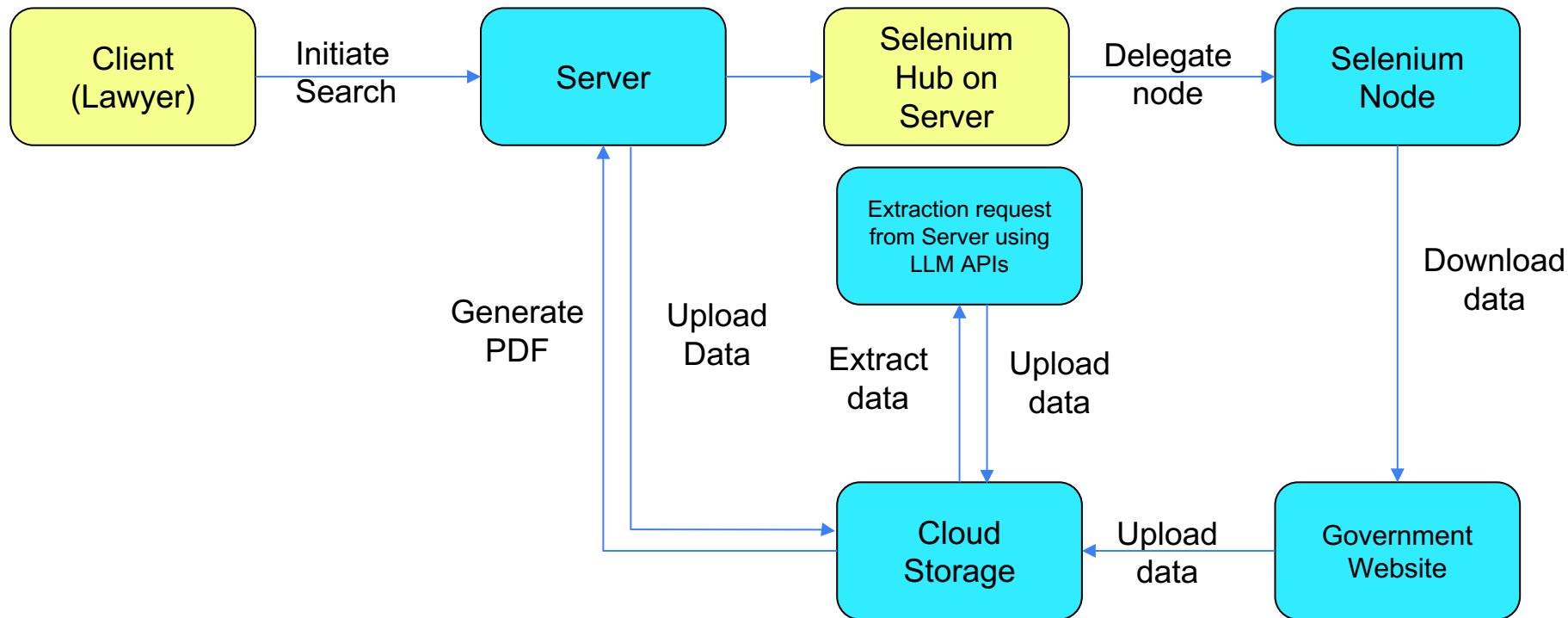


LEGEND

System

User

Architecture Diagram



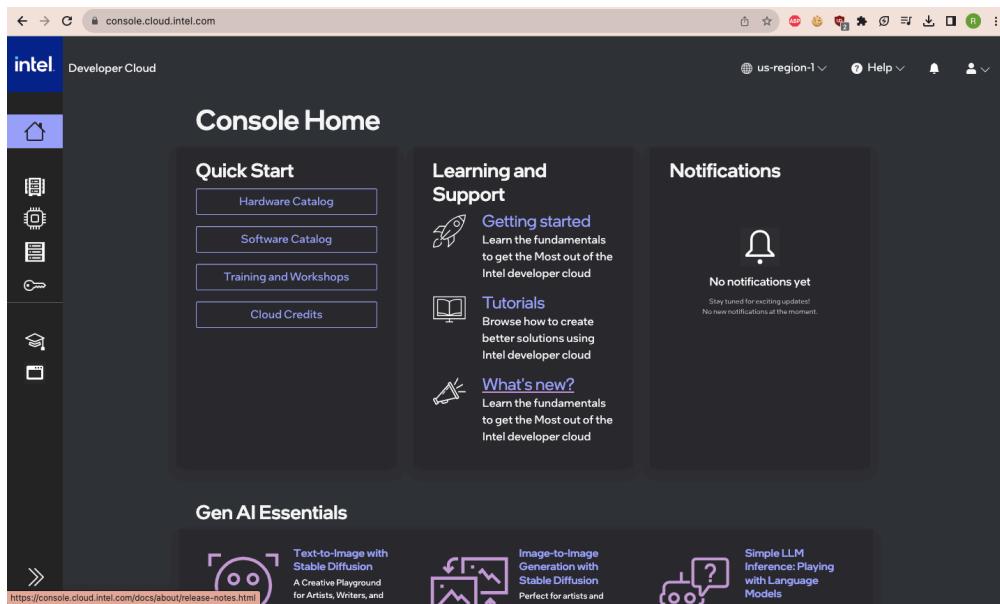
Technologies used (Mark down oneAPI AI Analytics libraries used)

Intelligent Document Indexing

Intel® oneAPI Threading Building Blocks

Intel® Distribution for Python

Intel® Developer Cloud Account (Screenshot)



GitHub Repo: <https://github.com/rpiplwar/oneAPI-GenAI-Hackathon-2023>

Use case of Intel® Developer Cloud (IDC)

Training of OCR models for image to text models

Fine-tuning LLMs on property registration data in regional languages

Fine-tuning Text to JSON extraction LLMs



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THANK YOU

