



CODECELL-CMPN, VESIT

SYRHS HACKATHON 2025

Category Code: C1

Problem Statement Title: ITYaar

Team Name: StackUnderflow

Institute Name: Vivekanand Education Society's Institute of Technology



Idea / Approach details (& implemented features)

Problem:

Filing ITR in India is tedious and complex, leading to:

- Complex tax calculations
- Inefficient tax optimization
- Filing difficulties & missed deadlines
- Lack of guidance & support

Target Audience:

- Salaried professionals
- First-time taxpayers
- Small business owners & freelancers

Solution: ITYaar simplifies tax filing using:

- OCR-based document extraction for faster processing
 - AI-powered automation for tax calculations and tax optimization to reduce tax liability
 - Voice-enabled UI & chatbot assistant for instant guidance
 - Twilio-based reminders to ensure timely filing

Implemented Features

1. Web Application

- OCR-Based Document Upload**
(Salary slips, Investment proofs)
- AI-Powered Tax Calculation** (Auto tax computation with Web Scraping)
- Smart Tax Optimization**
(Personalized investment recommendations)
- WhatsApp Reminders** (Twilio-based deadline alerts)

2. Google Chrome Extension

- Assisted ITR Filing:** Parses government tax portal & simplifies filing
- Chatbot for Tax Queries** (FAQs on deductions, exemptions)
- Voice-Enabled UI** (Hands-free accessibility)

3. Learning Module

- AI-Generated Video Lessons** (Tax concepts in short reels)
- Tinder for Tax:** Swipe-based interactive learning
- WhatsApp Tax Coach:** Bite-sized lessons & quizzes

Innovation & Technologies used

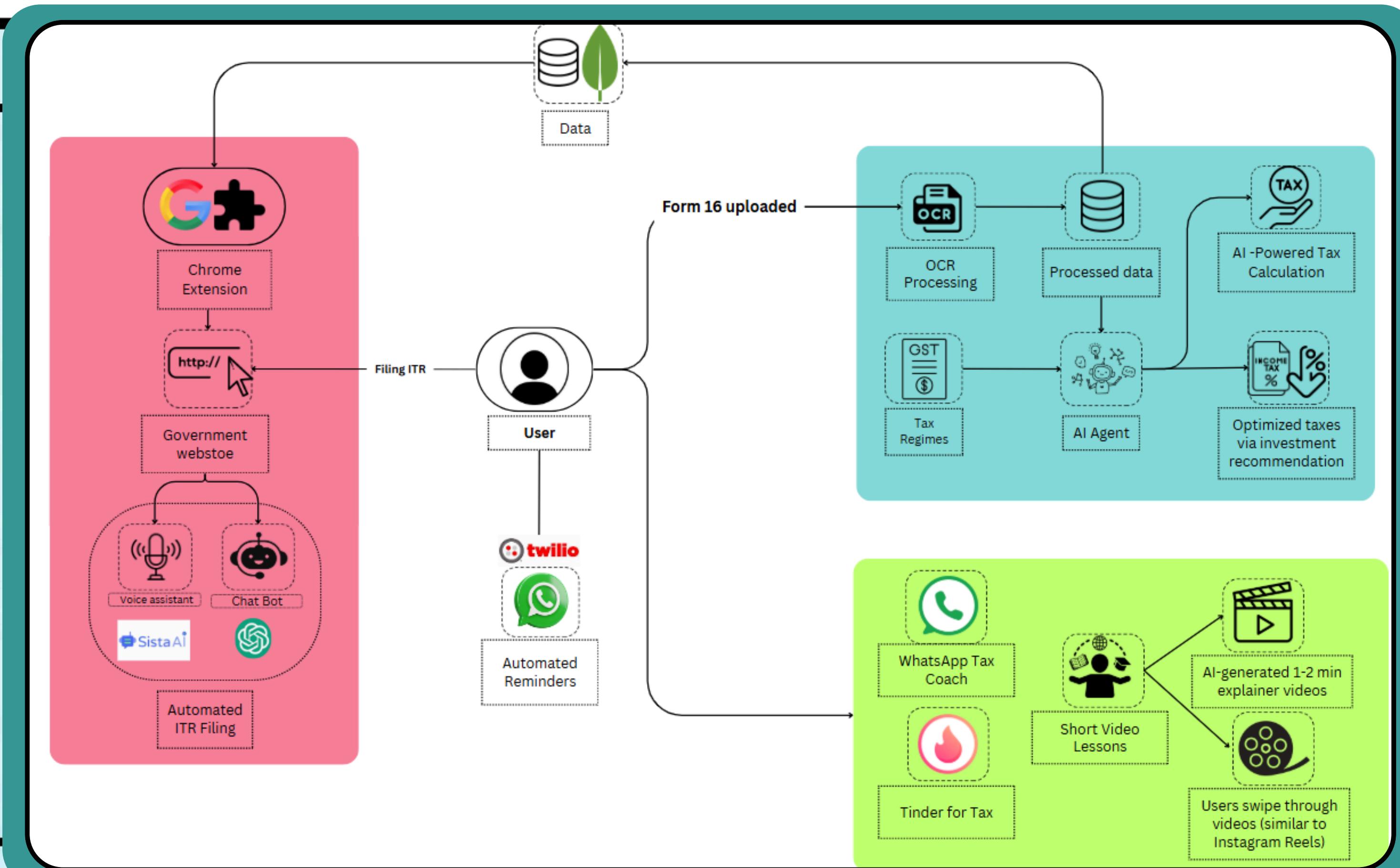
Innovation:

- Over 8.09 crore Income Tax Returns (ITRs) were filed in India for the fiscal year 2023-24.
- However, a majority of taxpayers relied on traditional methods and sought assistance from Chartered Accountants (CAs) due to the lack of innovation in tax filing solutions.

Technologies used:

- AI & Automation: SistaAI, OpenAI, AutoGen
- OCR & Document Processing: EasyOCR, Pillow
- Web Scraping: Automated tax rule extraction
- Conversational UI: Chatbot + Voice Assistant
- Notifications & Alerts: Twilio-based WhatsApp integration
- Gamified Learning: Swipe-based, Short-video/Reel based, WhatsApp-based learning

Use Case Diagram



Demo Video Link

https://drive.google.com/drive/folders/1OvIU42Pxvp9GwZCIQkkrLA60TY2eEUBy?usp=drive_link



Future Objectives

- Linking Pan and Aadhar to our website so that we can access Form-16 directly.
- Expand to Business ITR (ITR-3, ITR-4)
- Investment Portfolio Integration
- Multilingual Support

