

SarkarSaathi – Implementation Plan

⌚ Project Overview

Name: SarkarSaathi (Government Companion)

Tagline: Your personal guide for any government website, in any language

Target: WeMakeDevs x Tambo AI Hackathon 2026

Problem Statement

- 800M+ Indians struggle with English-only government websites
 - Complex navigation and confusing forms cause frustration
 - No unified help system across different government portals
 - Existing solutions (chatbots) are limited to specific sites
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Solution

A Chrome extension powered by Tambo's generative UI that:

- Works on **ANY** Indian government website
 - Accepts queries in **ANY** Indian language
 - Provides step-by-step visual guidance
 - Auto-fills forms with validation
 - Explains each field in simple terms
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Technical Architecture

Tech Stack

Frontend (Chrome Extension):

- React 19 + TypeScript
- Tambo React SDK for generative UI
- Tailwind CSS for styling
- Chrome Extension Manifest V3

AI & Language:

- Tambo API (Claude/GPT-4) for intelligence
- Google Translate API or Bhashini API for multilingual
- Speech recognition API for voice input

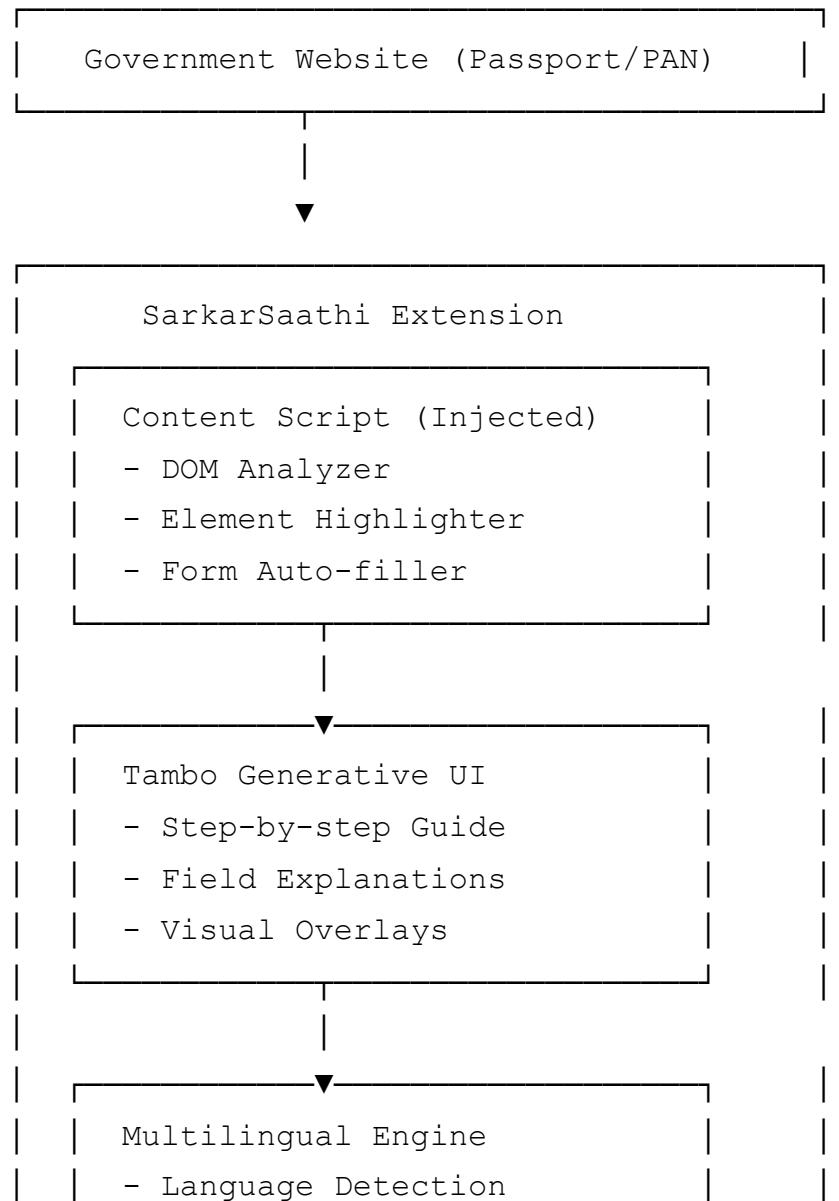
Document Processing:

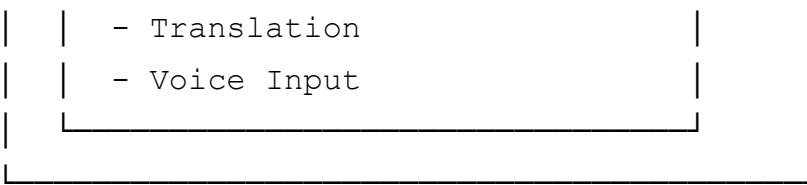
- Tesseract.js for OCR
- Canvas API for image quality checks

State Management:

- Chrome Storage API for user preferences
- React Context for extension state

Architecture Diagram





External APIs

- Tambo API (AI)
- Google Translate / Bhashini
- Tesseract.js (OCR)

July 17 7-Day Implementation Timeline

Day 3 (Feb 3) – Today! 🔥

Focus: Project setup + Core infrastructure

- Finalize concept and plan
- Create Chrome extension scaffold
- Set up Tambo integration in extension
- Build basic UI overlay
- Test on a simple government site

Deliverable: Working extension that can inject UI on passport seva

Day 4 (Feb 4)

Focus: Multilingual + Website Intelligence

Morning:

- Integrate translation API
- Build language selector UI
- Test Hindi, Tamil, English translations

Afternoon:

- DOM analyzer (detect forms, buttons, inputs)
- Element highlighter system

- Government website detector

Evening:

- Test on Passport Seva portal
- Fix bugs

Deliverable: Extension can detect forms and translate UI to Hindi

Day 5 (Feb 5)

Focus: Smart Features + Generative UI

Morning:

- Tambo generative components for step-by-step guides
- Field explanation tooltips
- Visual navigation arrows

Afternoon:

- Form auto-fill logic
- Data persistence (Chrome storage)
- Confirmation dialogs

Evening:

- Document validator (OCR + quality check)
- Upload helper UI

Deliverable: Can guide user through passport form with auto-fill

Day 6 (Feb 6)

Focus: Demo Sites + Polish

Morning:

- Test on Income Tax e-filing site
- Test on PAN card application
- Handle edge cases

Afternoon:

- UI/UX polish (animations, colors, responsiveness)

- Error handling
- Loading states

Evening:

- User testing with 5 people (friends/family)
- Collect feedback
- Priority bug fixes

Deliverable: Polished extension working on 3 government sites

Day 7 (Feb 7)

Focus: Demo Video + Submission

Morning:

- Record demo video (2–3 minutes)
 - Show problem (user struggling)
 - Show solution (SarkarSaathi helping)
 - Show impact (time saved)
- Edit video

Afternoon:

- Write comprehensive README
- Create screenshots/GIFs
- Prepare presentation slides

Evening:

- Publish extension (Chrome Web Store – unlisted)
- Submit to hackathon portal
- Post on Twitter/LinkedIn
- Share in WeMakeDevs Discord

Deliverable: Submitted project + live demo

Demo Script

Act 1: The Problem (30 seconds)

- Show user (your mom/friend) trying to fill passport form
- Confused by English terms
- Clicks wrong buttons
- Frustrated expression
- Voiceover: “800 million Indians struggle with English-only government websites”

Act 2: The Solution (90 seconds)

- User installs SarkarSaathi extension
- Clicks extension icon
- Speaks in Hindi: “मुझे पासपोर्ट कैसे बनाना है?”
- SarkarSaathi activates:
 - UI switches to Hindi
 - Highlights “New Application” button
 - Shows step-by-step guide
 - Explains each field in simple Hindi
 - Auto-fills known information
 - Validates uploaded photo
- User completes form easily
- Happy expression

Act 3: The Impact (30 seconds)

- Show metrics:
 - Without SarkarSaathi: 30 minutes, 5 errors
 - With SarkarSaathi: 5 minutes, 0 errors
- Show social impact:
 - “Works in 22 Indian languages”
 - “Helps 800M+ non-English speakers”
- Call to action:
 - “Making Digital India truly inclusive”



Why This Wins

Judging Criteria Alignment

1. Innovation (30%)

- First generative UI for government websites
- Novel use of Tambo for browser extensions
- Adaptive multilingual interface

2. Technical Implementation (25%)

- Chrome extension + Tambo integration
- DOM manipulation + AI
- OCR + translation + form automation

3. Impact (25%)

- 800M+ potential users
- Solves real pain point
- Measurable time savings

4. Presentation (20%)

- Emotional demo (relatable problem)
- Clear before/after comparison
- Live demonstration on real sites

Unique Differentiators

- Government-specific: Not generic translation, tailored for gov websites
- Visual guidance: Not just chatbot, shows **WHERE** to click
- Bhashini integration: Using govt's own multilingual API
- Universal: Works on **ANY** government site, not just one
- Privacy-friendly: Processes locally, no data sent to servers

Potential Challenges & Solutions

Challenge	Solution
Government websites have different structures	Focus on 3 popular sites for demo, use generic DOM patterns
Translation quality	Use Bhashini (govt API) + fallback to Google Translate

Challenge	Solution
Form auto-fill might break on complex sites	Always show confirmation before filling, allow manual override
Chrome extension review time	Publish as unlisted (no review needed), share direct link

Success Metrics

For Demo:

- Time to complete passport form: **30 min → 5 min (83% reduction)**
- Error rate: **5 errors → 0 errors (100% reduction)**
- User satisfaction: "Very difficult" → "Very easy"

For Hackathon:

- Working on 3 government websites
- Support for 3+ languages (English, Hindi, Tamil)
- 5+ user testimonials
- Live demo without crashes

Next Immediate Steps

- Stop the current dev server (FlowBuilder project)
- Create new SarkarSaathi project (Chrome extension)
- Set up basic extension structure
- Integrate Tambo SDK
- Build first prototype (overlay on passport seva)

Ready to start building? 