

# Tech Championship Program 2025

**Bringing Insurance to Rural India Through Voice, Local Languages and Simple Guidance**

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### **Key Guidelines**

Please read carefully before proceeding.

Please review the details on slide number 3 to understand the evaluation parameters. Slides 4 and 5 are mandatory and must be filled out with relevant information. If you have additional information about your idea or solution, feel free to add 1-2 extra slides.

#### **Idea Description:**

Provide details about your understanding, thought, or conceptualization of the idea.

#### **Tool/Coding Language/Platform/Application to be Used & How:**

Detail the tools, platforms, coding languages, or applications that will be utilized for developing the solution and explain how they will be employed.

#### **Recommended or Best Possible Solution:**

Describe the action or process for solving the problem or propose a solution that is suitable for addressing the issue effectively.

#### **Solution Implementation Plan:**

Outline the implementation plan, detailing the strategic steps to achieve the shared goal or objective. This plan should encompass strategy, process, and action, covering all aspects of the idea from scope to budget and beyond.

#### **Potential Benefits:**

Identify the positive outcomes or advantages that the solution will produce, highlighting the beneficial results or effects it will yield.

**Important Note for Students:** Please ensure that your idea submission addresses each evaluation parameter, as this will assist the jury in accurately assessing or evaluating your submission.

**Evaluation Parameters: The information provided on this slide is intended to guide you in preparing your submission accordingly.**

Sr. No.	Evaluation Parameters
1	<p><b>Ease of Use/User Experience (UX):</b> The importance of an intuitive and user-friendly interface is a recurring theme across various applications. (Example: User Experience, Usability and Accessibility, etc.)</p>
2	<p><b>Security and Privacy:</b> Ensuring robust data protection and compliance with relevant regulations. (Example: Data Protection, Safety and Security, Data Privacy and Security, etc.)</p>
3	<p><b>Integration and Compatibility:</b> The ability to integrate with other systems, devices, and platforms. (Example: System Integration, Multi-Platform Compatibility, Device Compatibility, etc.)</p>
4	<p><b>Engagement and Interactivity:</b> Incorporating elements that engage users and make the experience interactive. (Example: Gamification Elements, User Engagement, Social Connectivity, etc.)</p>
5	<p><b>Accuracy and Relevance:</b> Ensuring the information provided is accurate, current, and contextually relevant to problem statement.</p>

**Important Note for Students:** Please ensure that your idea submission addresses each evaluation parameter, as this will assist the jury in accurately assessing or evaluating your submission.

## Problem Statement: [Please specify the problem statement you have selected for submission.]

### Idea Description:

InsureGuide is a multilingual Virtual Insurance Agent designed to bridge the gap in insurance awareness and accessibility across rural India. The platform functions as an intuitive guide, breaking down complex financial jargon into simple, local language to educate users. While offering standard health and life options, the core focus remains on agricultural stability, specifically protecting crops, livestock, and farm equipment. Through interactive surveys, the system assesses individual needs to recommend relevant policies, offering step-by-step assistance for documentation, purchasing, renewals, and claims. To enhance utility, the platform incorporates a Village Insurance Risk Map for regional insights and a feature to connect users with verified human agents, ensuring personal support is always available alongside digital convenience.

### Tool/Coding Language/Platform/Application to be used & How?:

Frontend (Technologies used to build the user interface and client-side functionality)	Backend (Server-side technologies that manage data and business logic)	Database (Systems used to store and retrieve data efficiently and securely)	DevOps (Practices and tools for automating software deployment and infrastructure management)	Testing (Tools and methods to ensure software quality and performance)	Security (Measures to protect software and data from unauthorized access and breaches)	Collaboration (Tools that facilitate teamwork, project tracking, and communication)
React.js, React Native, Javascript	Node.js, Express.js, Mongoose ODM	MongoDB	GitHub, Vercel	Postman	OTP login, encrypted data	GitHub, GMeet

### Recommended or Best Possible Solution(s):

The best solution is to build a multilingual Virtual Insurance Agent that simplifies insurance for rural users through a chat-based, easy-to-understand Interface. The system collects basic user details, analyzes their needs, and recommends suitable insurance types such as health, crop, livestock, or life Insurance. It also provides step-by-step guidance for purchasing, required documents, and claim or renewal support. A separate Facilitator Dashboard helps village volunteers onboard multiple users and track their progress, ensuring wider community impact and accessibility.

### Solution Implementation Plan:

**Requirement Analysis:** Identify rural user needs and key insurance types; map survey questions to recommendation rules.

**Design & Prototype:** Create UI screens for chatbot, survey, recommendations, and facilitator dashboard; define backend API structure.

**Development (MVP):** Build frontend with React, backend APIs using Node/Express, and set up MongoDB; implement a rule-based recommendation engine.

**Facilitator Module:** Include multi-user onboarding, villager lists, status tracking, and a basic analytics dashboard.

**Testing:** Conduct UI testing, chatbot flow testing, and API validation for performance and usability.

**Deployment:** Host the app on Vercel/Render for accessibility on rural mobile devices.

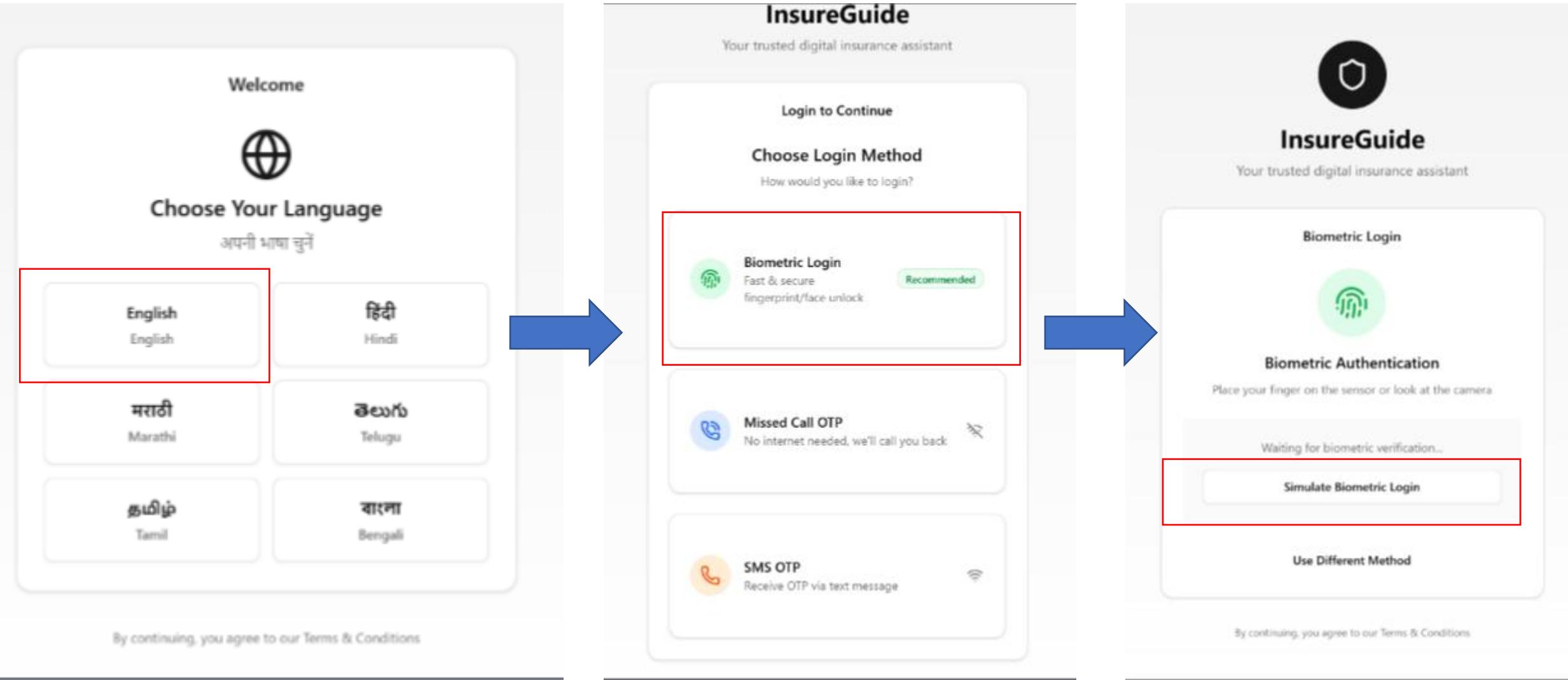
**Enhancements:** Introduce multiple languages, voice support, reminders (SMS/WhatsApp), and improve AI-based recommendations.

### Potential Benefits:

- Recommends agricultural insurance based on several risk factors that can affect the yield.
- Improves insurance awareness by explaining complex terms in simple, local languages.
- Provides personalized insurance recommendations, helping rural users choose the right plan for their needs.
- Guides users through documents, purchase steps, and claims, reducing confusion and dependency on agents.
- Strengthens financial security for rural families by promoting health, crop, livestock, and life insurance coverage.
- Facilitator dashboard increases community reach, enabling volunteers to onboard and support many villagers efficiently.

# Please include a 'Wireframing Design' for your recommended solution

**What is Wireframing Design?:** Wireframing is a process where designers draw overviews of interactive products to establish the structure and flow of possible design solutions. These outlines reflect user and business needs. Paper or software-rendered wireframes help teams and stakeholders ideate toward optimal, user-focused prototypes and products.



Family Mode

Select Profile

Who is using the app?

RK Ramesh Kumar Self Last used

SK Savita Kumar Wife

RK Raj Kumar Son

Add New Family Member

Offline Mode Active: You can use the app for 7 days without

Online English

What is Insurance? बीमा क्या है? (30 seconds)  
Watch this short video to understand how insurance protects you and your family  
हिन्दी Subtitles Auto-play 30 sec

Real Stories from Your Community

RP Ramesh Patil Greenfield Village ★★★★★  
Successfully Claimed ₹50,000 for Crop Loss  
"InsureGuide helped me understand my policy and claim easily. Highly recommended!"

SD Savita Devi Riverside Village ★★★★★  
Successfully Claimed ₹50,000 for Crop Loss

"InsureGuide helped me understand my policy and claim easily. Highly recommended!"

Can't Read? We're Here to Help!  
पढ़ नहीं सकते? कोई बात नहीं! हमें कॉल करें  
Get voice guidance in your language - No internet needed  
Call: 1800-XXX-XXXX

What would you like to do?

Start Insurance Guide

Talk to Agent Now (Emergency)

Village Risk Map File a Claim

Why Trust InsureGuide?

1,247+ Users In your region

Verified Agents Government approved

Works Offline 7-day access

FAQ Help Facilitator Login

Scroll

Virtual Agent

English

Namaste! I'm your insurance helper. I can speak in your language and help you understand insurance.

Listen to audio

You can talk to me by pressing the microphone button, or choose from the options below. What would you like to do?

Listen to audio

What would you like to do?

**Answer 5 Questions** (button highlighted with a red border)

See Your Plans

Is My Area Safe?

Call Expert Now

Upload Policy Photo

Get Money Back

I Don't Understand  Send to WhatsApp

Press to Speak (Voice Input)

Or type your message...

Voice available in multiple languages • Auto-play responses

← Question 1 of 5 0 answered Save

What is your main occupation?

Listen to Question  Auto-play questions

Farmer

Daily Wage Worker

Shopkeeper

Livestock Owner

Other



## Village Risk Map



Private View: This risk data is visible only to you. Your village name is not shared publicly.

Greenfield Village

My Location

Last updated: 1/5/2024 • Report if incorrect

Greenfield Village

MEDIUM RISK

User  
selects 'Is  
My Area  
Safe?'



Greenfield Village

Low Risk   Medium Risk   High Risk



Flood Risk

HIGH RISK

Your area has flood risk because: Heavy rain in July-August monsoon season + village is near Ganga river (2 km away)

Last Event  
August 2022

Families Affected  
45

Had Insurance  
30 families



Crop Loss History

MEDIUM RISK

Crops damaged in last 3 years due to: Unseasonal rain (2023) + drought in summer (2022)

Last Event  
June 2023

Families Affected  
28

Had Insurance  
12 families



Health Facilities

LOW RISK

Good access to healthcare: Primary Health Center in village + District Hospital 15 km away

User selects 'See Your Plans' →

### Best Plans For You

Based on your profile, we found these 3 plans that fit your needs

★ Recommended for

**Family Health** Health Insurance

Pay: ₹350 per month  
You Get: ₹3,00,000 if family member gets sick

Why This Plan is Good for You:  
You have 4 family members + worried about health costs

What You Get:

- All family members covered
- Hospital bills paid directly
- Free health checkups yearly

Watch 1-Minute Video  
See how this plan works in your language

Watch

View Full Details

Ask Agent

User selects 'Call Expert Now' →

### Connect With Agent

① Urgent Help Needed? Click Here

For claim emergencies - Answered within 2 minutes

Search by name or village... All Types

**Rajesh Kumar** Verified

Greenfield & nearby areas

Crop Insurance Health Insurance

Speaks: Hindi, Marathi, English ★ 4.8 • 145 families helped

Works: 9:00 AM - 6:00 PM Available Now

Verified by Government IRDAI License: IRDAI/DB/2024/12345 Scan ID

Call Now (Free)

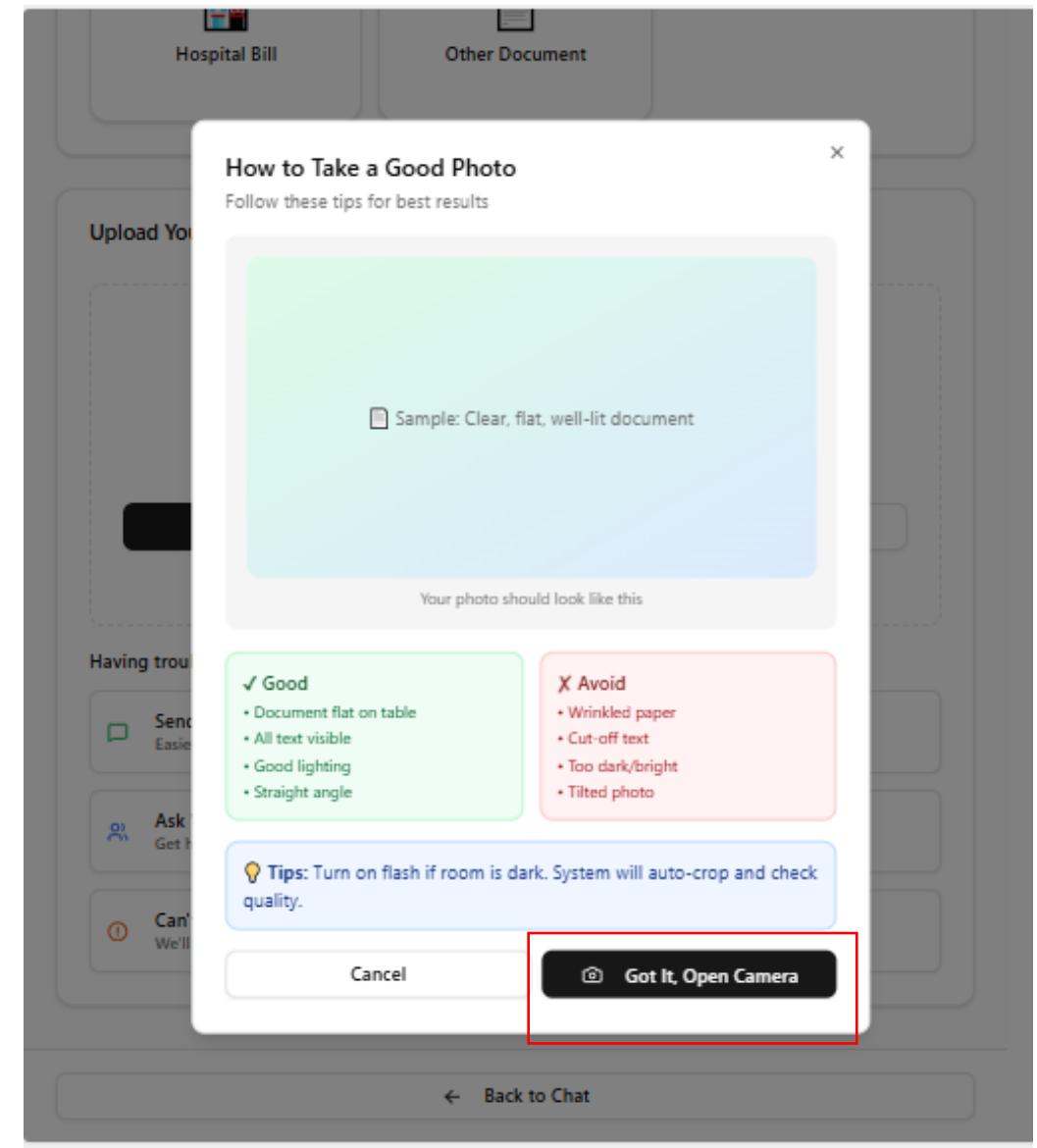
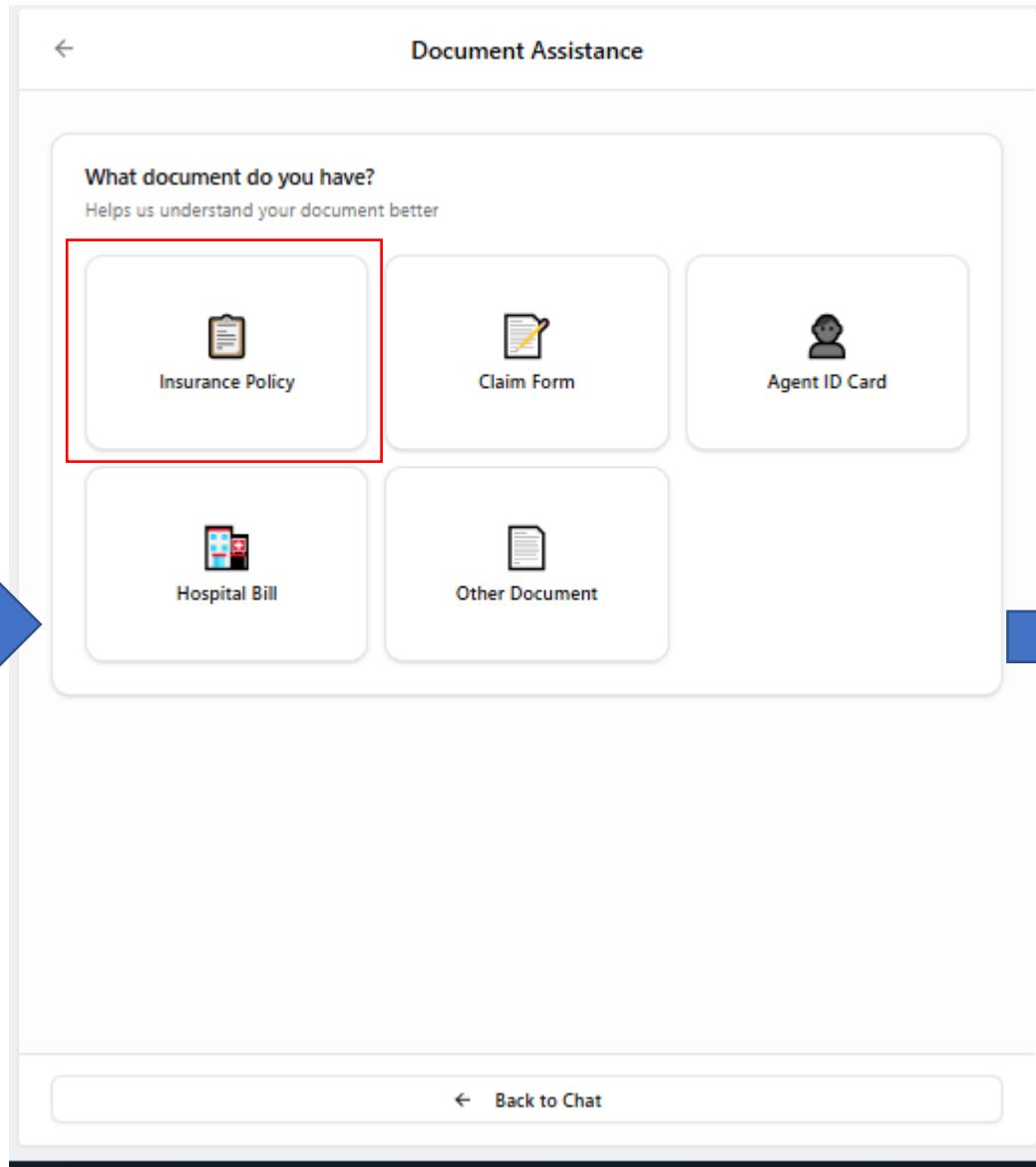
WhatsApp Chat

Agent Will Call Me

Send Voice Note

WhatsApp messages auto-translate between your language and agent's language

User  
selects  
'Upload  
Policy  
Photo'





## Document Assistance

### Audio Explanation



Press play to hear

⏮️ Replay 30s

Speed: 1x

Send to WhatsApp

Save Audio File

### Simple Explanation

This is a Crop Insurance Policy that protects your wheat and rice crops from weather damage.

#### What's Covered

✅ Covers flood and drought damage

✅ Maximum coverage: ₹50,000 per acre

✅ Valid for 1 year from date of sowing

You Pay:

**₹200 per month (₹2,400 per year)**

Scroll

#### What's Covered

✅ Covers flood and drought damage

✅ Maximum coverage: ₹50,000 per acre

✅ Valid for 1 year from date of sowing

You Pay:

**₹200 per month (₹2,400 per year)**

#### Important Rules

⚠️ Must report damage within 72 hours

⚠️ Photos of damaged crops required

⚠️ Cannot claim for same damage twice

#### How to Claim

1 Loss must be more than 33% of crop

2 Government weather report needed

3 Claim paid within 30 days of approval

#### Important Dates

⚠️ Next premium due: 15 Feb 2024

User  
selects  
'Get  
Money  
Back'

Claim Assistance

Select Policy ▾

**1** Start a New Claim  
Submit a new insurance claim with step-by-step guidance

**2** Track Existing Claim  
Check the status of your submitted claim

Talk to Agent

Back to Home



Claim Assistance

Select Policy ▾

**1** Required Documents

- Government-issued ID proof (Aadhaar/Voter ID)
- Policy document copy
- Medical bills and receipts (for health claims)
- Land records (for crop claims)
- Death certificate (for life insurance claims)

**2** Upload Documents

Upload your documents  
Click to browse or drag and drop

Take Photo Choose File

Continue to Upload

Claim Assistance

Select Policy ▾

Enter Your Claim ID  
e.g., CLM2024001234

Track Claim

**Thank You..!!**