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InsureTech: A Platform that Provides Customized Insurance Policies

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Abstract: This paper presents a platform that is built for users who find the gap in conventional insurance platforms and need Customized insurance policies. It is an innovative approach that addresses significant gaps in the current insurance systems. Traditional insurance systems lack centralized policy administration, flexible coverage selections, and quick verification methodologies, resulting in suboptimal consumer experiences. Our platform, "InsureTech," incorporates various policy providers with customizable plans that cover major and general policies like Car, Bike, and Health insurance through an intuitive interface. Our platform has a management framework too that shows all the plans of all policy types at one interface, making it highly user-centric. The key innovations that set us apart from the competition are (1) Implementation of sophisticated digital Know Your Customer (KYC) protocols (2) Plan suggestions are complemented by integrated AI, which suggests tailored, customizable insurance plans to navigate the user more easily based on the user's details. (3) A smooth and simple end-to-end management solution from discovering policy to buying a customized plan to finally making claims. Through user assessment, we demonstrated that milestone in task execution speed (68% reduction), calculated the user satisfaction metrics (84% positive evaluation), and policy customization adaptability compared to traditional insurance platforms. All these points from our investigation contribute to developing InsureTech. By illustrating how a user-centric approach, a customizable policy interface, and the management of multiple policies in one place can revolutionize consumer experience while sustaining regulatory terms and data protection.

Keywords: InsureTech, personalized platform, customizable insurance, digital KYC, user experience, Insurance policy management.

I. INTRODUCTION

Historically, the insurance industry has used standardized frameworks that provide customers with few options. The majority of regulations use strict language that doesn't sufficiently address the changing demands of modern customers, leading to circumstances where people either pay too much for unnecessary coverage or don't have enough insurance for certain risks. Furthermore, the administration of insurance policies is still dispersed, forcing customers to use several systems for various insurance types, which adds needless complexity and reduces transparency [1].

A. Problem Description

The present state of insurance is marked by a number of significant challenges:

- Fragmented Administration: Customers who oversee many insurance plans usually have to use several systems for property, health, vehicle, and life insurance.
- Inflexible Policy Frameworks: Conventional insurance plans offer little room for customization, forcing customers to choose from pre-made packages that might not meet their unique needs.
- Difficult Verification: Policy issuance and claims processing are significantly delayed by the primarily document-based and time-consuming Know Your Customer (KYC) and Customer Due Diligence (CDD) processes.
- Limited Short-Term Options: Although most insurance policies are intended for long-term commitments, many customers need coverage for specific activities or for short periods of time.

These issues create major barriers to insurance accessibility and satisfaction, especially for tech-savvy customers who want the same degree of ease and personalization as other digital services [2].

B. Research Goals

By creating and assessing a centralized insurance management system with the following goals, this study seeks to address these issues:



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- Create and put into use a single platform that unifies policies from several insurers for all-encompassing management.
- Create simplified digital KYC and verification procedures to speed up claims and policy issuing.
- Develop a customization engine that allows for insurance plans that are specifically suited to each person's needs.
- Assess how well the platform improves customer happiness and accessibility to insurance.
- Evaluate the suggested solution's technical viability and security consequences.

C. Importance

This study adds to the developing InsurTech field by illustrating how digital transformation may tackle core issues facing the insurance sector. This study is essential because it provides a framework for merging various insurance providers.

- Offering innovative methods to personalize insurance.
- Providing reliable evidence of better customer experience through digital transformation.
- Managing Regulatory Compliance within the Insurance Innovation Framework

The subsequent sections of this work are grouped as follows: Section 2 examines work connected to insurtech; Section 3 describes our approach; Section 4 details the system's design and implementation; Section 5 offers the evaluation results; Section 6 examines implications and limits; and Section 7 finishes with future research prospects.

II. RELATED WORK

A. The Evolution of InsurTech

Over the past ten years, the insurance sector has seen a substantial digital revolution, with InsurTech businesses using technology to improve client satisfaction and operational effectiveness. Stoeckli et al. [3] noted that most solutions concentrate on certain market niches rather than a whole ecosystem change, highlighting the distinctive patterns of InsurTech developments and their disruptive potential. Puschmann [4] highlighted the industry's shift to customer-centric digital models and placed InsurTech inside the larger FinTech trend.

B. Platforms for Policy Administration

A number of online resources have been developed to handle various facets of insurance administration. In their analysis of the success characteristics of digital insurance platforms, Politis and Iliadu [5] found that user experience and integration capabilities were crucial elements. Nevertheless, the majority of current systems continue to be tied to certain insurance companies or policy types, falling short of offering the all-inclusive administration that customers are calling for more and more. According to McKinsey research [6], 68% of insurance consumers say they are frustrated with having to manage several policies across several platforms, indicating that fragmentation is still a major consumer problem.

C. Customization of Insurance

In recent years, the idea of customized insurance has grown in popularity. In their analysis of the rise of usage-based insurance models in motor insurance, Deloitte [7] showed how more customized pricing may be made possible via telematics. In a similar vein, Thakor [8] investigated how data analytics may be used to provide more detailed risk evaluations. But instead of emphasizing basic product customization, these strategies usually concentrate on pricing optimization. There is still a significant gap between what the market offers and what consumers anticipate from flexible insurance products [9].

D. Verification and Digital KYC

The financial services industry has seen a great deal of research on Know Your Customer procedures. A simple KYC tool that reduces needless verification procedures and improves security. Similarly, Singh and Singh [10] showed how AI may increase the speed and accuracy of document verification. The insurance sector has fallen behind in KYC innovation despite these developments, with many procedures still being paper-based or only partially digitalized [11].

E. Research Deficit

Although previous studies have focused on distinct facets of insurance management, customisation, and verification, there is still a noticeable lack of all-inclusive solutions that combine these components into a single platform. By creating and assessing a comprehensive solution that integrates centralized management, customized regulations, and expedited verification into a single ecosystem, our study fills this gap.



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III. METHODOLOGY

A. Design Science Methodology

To solve the issues in insurance management that were found, we used a Design Science Research (DSR) approach [12]. This method focuses on developing and assessing IT artifacts used to address organizational issues. The six steps of the DSR process model—problem identification, solution objectives formulation, design and development, demonstration, assessment, and communication—were followed in our study by Peffers et al. [13].

B. Requirements Analysis

In order to establish the required specifications for the InsurTech platform, we undertook a deliberate requirements analysis. Functional specifications:

- Integration with multiple insurance companies.
- Policy aggregation and unified management.
- Ability to customize insurance program.
- KYC processing and verified digital documents.
- Full claims management.

Non-functional requirements:

- Security and insurance regulatory compliance.
- Performance and scalability.
- Accessibility and usability.
- Interoperability with existing systems.

MoSCoW [Must, Should, Could, Won't] technique [14] was used to prioritize requirements to help drive development resources.

C. System Design and Development

A microservices architectural model was used in the design of the system to facilitate scalability and modularity. Development was undertaken as an agile [14] development methodology over a six-month duration using two-week sprint cycles. The technology stack was selected based on integration capacity, scaling, and security requirements:

The technology stack included:

- Database: MongoDB for policy and user data storage.
- Security: OAuth2, encryption
- Integration: REST APIs with defined data exchange protocols.
- Backend: Spring boot (Java) for RESTful APIs.
- Frontend: React for web interfaces, React Native for mobile apps.

D. Evaluation Methodology

A mixed-methods evaluation strategy by combining both qualitative user comments and quantitative user measures:

1. Usability Testing:

- Time and task completion rates
- User satisfaction surveys and System Usability Scale (SUS) evaluation

2. Performance Evaluation:

- Response time measurements
- Capable of conducting the transactions
- Reliability of the system under load

3. Benchmarking:

- A feature comparison with existing solutions
- Time-savings comparisons

To evaluate the platform, we assessed 48 users of varying insurance knowledge (27 male and 21 female, 2-58 years old). Data on efficiency, efficacy, and satisfaction were collected from users as they completed several tasks on our InsurTech solution and legacy insurance platforms.



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IV. SYSTEM DESIGN AND IMPLEMENTATION

The InsurTech Hub has employed a microservices architecture to support fault isolation, scalability, and modularity. The high-level architecture can be represented in six main components, as shown in Figure 1:



The architecture is:

- API Gateway: Provides load balancing, request routing and authentication
- User Service: Manages user preferences, account management, and user registration.
- Policy Service: Manages the comparison, customization, and aggregation of policies.
- Verification Service: Manages digital signatures and KYC verification
- Claims Service: Manage the filing, processing and tracking of claims
- Integration Service: Manages the relationship with insurersFigure 1:

A. Centralized Policies Management

The policy management module allows users to monitor and manage multiple insurance policies through a single interface. Some key features include:

- Policy Aggregation: Integrating various insurers using standardized APIs and data transformation services
- Document Storage: Centralized storage of policy documents, certificates, and other related files
- Notification Service: Automatic notifications for policy updates, renewals, and premium payments
- Centralized Dashboard: A single view of all policies, coverage information and expiration dates

Data models were developed in order to provide users with a common representation while allowing for a variety of policy types. Promising no loss of semantics, the policy data was normalized across providers through transformation services, which translate provider info/structure into a common schema.

B. Digital Verification and KYC

The verification system utilizes digital document processing and verification to simplify the previous difficulties in completing the KYC process:

- Digital Signatures: electronic signature capabilities for policy documents with legal validity.
- Document Capture: mobile optimized capture of identity documents, address proofs and additional documents.
- OCR Processing: automated capture of documents to extract the relevant information using optical character recognition (OCR)
- Verification Workflow: multi-step verification process with status reporting.



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The solution all but removes keying and the likelihood of error through integration with government databases (RTO) that will prepopulate car details based on registration number for auto insurance.

C. Personalization Engine

The personalization engine facilitates the establishment of insurance plans that are truly tailored to each individual:

- Dynamic Coverage Options: A dynamic offering of coverage limits and coverage types
- Duration Flexibility: a variety of daily, weekly, monthly and yearly coverage periods
- Activity-Based Insurance: targeted coverage for specific Events/activities
- Premium Calculation: Immediate calculations of premiums based on predefined options
- Recommendation: algorithmic AI-driven recommendations based on user profile and behavior

Figure 2: Sequence Diagram of the Application



The recommendation system utilizes collaborative filtering and rule-based systems to identify and provide appropriate coverage selections, leveraging user demographics, historical behaviours and other users that exhibit similar profiles.



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D. User Interface Design

User Interface design focused on usability and navigability as primary principles. When it came to some of the design considerations:

- Contextual Guidance: in-app explanations of insurance concepts and choices for users
- Progressive Disclosure: information was revealed to users in layers to prevent an information overload
- Responsive Design: various layouts so we could use multiple devices and screen sizes
- Consistent Navigation: Keep navigation patterns similar across types of insurance
- Accessibility Compliance: regulations for equitable access for WCAG 2.1 AA compliance

To help new users on the platform, we worked with an AI-based chatbot to allow for frequently asked questions to be answered and to provide contextual help.

Figure 3: User Interface design of the landing page

	🔶 Insuretech	Car Insurance Bike Insurance Health Insurance Claims - About Us
		Insurance made easy Zero commission. Zero paperwork
		Car & Tani Bike Health
× 🌮		Enter your vehicle registration number a g. MH95VF1234 Search your vehicle
		Cooking to insure your new car? Cord a good
		Select your language Solo OC WITH ACRO CAR INSURANCE
	•	Licensed by IRDAL 1 1 5 2 Cover users 1 5 4 95% SR store

Figure 4: Chatbot system for easy navigation to buy policies

Insurance Assis	stant	×
	RJ20BAS	5214
Here are your ve	hicle details:	
Brand:	Honda	
Model: Cl	B Hornet 160R	
Variant:	ABS	
Year:	2022	1
FuelType:	Petrol	
EngineCC:	160 CC	
Transmission:	Manual	
RegistrationDate	e:15-Nov-2022	
Color:	Sports Red	_



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Figure 5: User-friendly interface to File new claim [Car Insurance]

Filing a New Car Insu	Jrance Claim	Save Draft
		Step 1 of 6
Basic Information		
Basic Information		
Policy Number		
Enter your policy number		Retrieve
Vehicle Registration Number		
Enter your vehicle number		
Date of Incident	Time of Incident	
⊞ mm/dd/yyyy		Q
location of Incident		
Renter location		
	Map interface would be integrated here	
Type of Claim		
Select claim type		~

Figure 6: Claims Process page explaining "how to file a claim" and other doubts

🔶 Insuretec	Car Insurance Bike Insurance Health Insurance	Claims ~	About Us	student ~
	nsurance Claims Process o you need to know about filing and tracking your car insurance claim			
			int & Download PDF	A Share
Types of Claims	Types of Car Insurance Claims			~
Claim Process				
Documents Required	Car Insurance Claim Process			~
Reasons for Rejection	Q Track Your Car Insurance Claim in Real-Time			~
Surveyor's Role	C Track Your Car Insurance Claim in Real-Time			Ť
Third-Party Claims	Documents Required for Car Insurance Claims			~
Stolen Car Claims				
FAQs	Documents Required for Different Types of Claims			~
	Frequently Asked Questions			~



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Figure 7: Near by repair shops using Google Maps

Find Bike Repair Sh	Locate approved repair facilities for your two-wheeler
i≣ List View	
Search by name, address, or ser	vice
Distance: 10 miles	°
In-Network Only	
Open Now	
Found 10 repair shops	
D Retrock	SpeedMoto Repairs * 4.8 (156 reviews) © 123 Main Street, New York, NY 10001 • 1.2 miles away J (212) 555-1234 © Open • 8:00 AM • 6:00 PM Services Basic Service Engine Repair The Replacement of Change Brake Service Specialities © Specialities © Directions Book Appointment
In Network	CityBike Mechanics ★ 4.5 (98 reviews) ♀ 456 Broadway, New York, NY 10012 • 2.3 miles away ↓ (212) 555-5678 ♥ Open • 9:00 AM • 7:00 PM

Figure 8: Dashboard for a user to keep track of all claims and policies

My Dashboard			U Refresh Edit Profile	Buy New Po
Personal Information	n			E
Name student	_{Email} student@gmail.com	Phone Not provided		
My Policies				
Comprehensive Bike In	surance active			
Policy Number	ACKO-524435			
Vehicle	TVS Apache (2010)			
Registration	MH01AB1234			
Valid Till	May 5, 2026			
Premium	₹3539			
View Details	File Claim			



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Figure 9: Pre-defined plans for users from different insurance providers



Figure 10: Buy-Your-Own custom policy option

Build Your Custom Policy

verage Options		Select All	Your Custom Policy Su	minary
Third Party Liability Received Mandatory coverage for damage to third parties as required by law	₹2850		Your Savings ₹9110	
Own Damage Cover Covers damage to your own vehicle due to accidents	₹3540		Selected Coverages (2/10)	
			Third Party Liability	₹2850
S Fire Protection Coverage for damage caused by fire or explosion	₹890		🚔 Own Damage Cover	₹3540
Coverage for damage caused by the or expositor			Base Premium	₹6390
			Duration (1 Year)	×1.0
Flood & Natural Disaster Protection from damage due to floods, earthquakes, and other natural	₹1250		IDV Adjustment	03
disasters			Premium Subtotal	₹6390
			GST (18%)	₹1150
Theft Protection Coverage in case your vehicle is stolen	₹1480		Total Premium	₹7540
			Continue with Custo	
Istomize IDV			Premium includes all applicable taxes. will be valid from 5/12/2025 to 5/12/20	
red Declared Value - affects your premium and claim amount			By continuing, you agree to the Terms	and Conditions.
er Premium	High	er Coverage		
93		₹7988		
93		61988		
Selected IDV: 50%				
licy Duration				
ose how long you want your coverage to last				



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Figure 11: Payment Gateway with different Payment options

Credit/Debit Card	Pay using Credit or Debit Card	Payment Summary
🌽 UPI	Card Number	Total Amount ₹7540
111 Netbanking	Enter card number here	
📑 Wallets	Expiry Date CVV MM/YY CVV Pay Now	Secure Payment
	Verifico by VISA SecureCode. TOCY 1999	
Powered by OJUSPAY		

E. Security and Compliance

We used a "security by design" approach, which means we were attempting to design security into our processes:

- Data Encryption: end-to-end encryption on sensitive data
- Access control: role based access control with fine-grained permissions
- Audit logging: activity logs forensics and compliance purposes
- Compliance Framework: compliance with legislation around data privacy and IRDAI instructions
- Penetration Testing: ongoing tests on the technology to reveal any vulnerabilities

V. RESULTS

A. System Performance

The tests run on the current hub demonstrated the platform's capability to support anticipated loads and provide adequate response times:

Metric	Result	Industry Benchmark
Average Response Time	248 ms	<500 ms
Maximum Throughput	120 requests/sec	>100 requests/sec
System Availability	99.95%	>99.9%
Database Query Performance	45 ms	<100 ms

Simulated peak loads at 500 concurrent users exhibited good steady-state performance. Performance degradation was seen only at much higher concurrent load levels, making them effectively negligible.



B. Usability Evaluation

Usability testing was carried out with 48 users and contrasted InsurTech Hub with conventional insurance websites. The usability test of InsurTech Hub fared better compared to conventional platforms:

Metric	InsurTech Hub	Traditional Platforms	Improvement
Task Completion Rate	96.3%	78.5%	+17.8%
Average Task Time	2.8 minutes	8.7 minutes	-68%
Error Rate	2.1%	12.4%	-83%
SUS Score	84.6	62.3	+22.3 points

Table 1 shows task time spent in fulfilling certain insurance management tasks.

C. User Satisfaction

Based on user satisfaction surveys, the site's most significant features were appreciated:

- 84% of the respondents said that overall the experience was "Good" or "Excellent".
- 89% of the respondents viewed the centralized administration as either "Very Useful" or "Extremely Useful".
- 76% answered that they would "Definitely" use the personalization features.
- 79% of the respondents indicated the online KYC process was "Much Better" than offline, according to them.

Figure 11 presents user satisfaction with the key features of the platform:



System Performance vs Industry Benchmarks

Figure 11: Graph Representing User Satisfaction Ratings

Qualitative feedback highlighted a range of features that customers most enjoyed:

- Having one place to see all policies
- Document submission became simpler
- Flexibility in selecting alternatives to coverage
- Systematic collection of auto data.
- Real-time premium estimates on an individualized personal basis.



D. Feature Effectiveness

A look at use and usability of features demonstrated variation in usage and usefulness:

Feature	Usage Rate	User Rating	Impact on Conversion
Policy Aggregation	92%	4.6/5.0	+18%
Customization Engine	78%	4.4/5.0	+24%
Digital KYC	100%	4.5/5.0	+15%
Vehicle Info Auto-Population	83%	4.8/5.0	+32%
AI Chatbot Assistance	45%	3.9/5.0	+8%

Automated extraction of vehicle information from government databases directly impacted conversion rates by reducing abandonment by 32% during the application process.

E. Comparative Analysis

Compared to existing insurance platforms, our proposed solution had a stronger edge in most key areas:

Dimension	Traditional Insurance	Current InsurTech Solutions	Our Platform
Policy Administration	Manual, paper-based	Digital, single provider	Digital, multi-provider
Customization	Limited, fixed options	Some flexibility	Fully customizable
KYC Process	Paper-based, slow	Digital, but fragmented	Fully digital, streamlined
Claims Processing	Manual submission	Digital submission	End-to-end digital
Integration	Siloed systems	Limited integration	Comprehensive API framework

VI. DISCUSSION

A. Key Findings

The results of the analysis reveal some of the most important outcomes concerning centralized insurance management systems:

- Efficiency Enhancements: One significant efficiency enhancement that could have a profound effect on clients' utilization of insurance services is the reduction of job completion time by 68%.
- Value of Customization: 78% usage rate and positive rating (4.4/5.0) of the customization engine confirm customers' demand for greater insurance flexibility.
- Importance of Integration: The strong adoption of policy consolidation (92% adoption, 4.6/5.0 rating) confirms the value of uniform administration interfaces across insurance lines.
- Innovation in Verification: The rapid KYC process demonstrated spectacular improvements in user experience without compromising on regulatory compliance.
- Value of Data Integration: Phenomenal success with auto-population of vehicle data highlights the importance of reducing human data entry by means of systems integration.

These results imply that an adaptive, core insurance platform could enhance the insurance experience considerably and deal with genuine client needs.



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B. Implementation Challenges

During the development and testing of the platform, the following issues cropped up:

- Integration Complexity: Because of the extremely high heterogeneity of API capabilities and data types, integration with most of the participating insurance carriers involved a high degree of normalization activities.
- Regulatory Compliance: Implementation was rendered challenging by the need to comply with the insurance regulations of the various types of policy.
- User Education: Because some users require a lot of help in understanding the extent of customization options, contextual training is necessary.
- Security Issues: Since various policies were focused on one platform, there had to be strong security measures in place to safeguard confidential data.

C. Theoretical Implications

This study extends some of the theoretical frameworks of the InsurTech sector:

- Theory of Platforms: Our study adds to platform theory by illustrating how multi-sided platforms can manage fragmentation in service industries with complicated regulatory environments.
- User Experience Design: The findings reaffirm the advantages of user-centered design approaches and step-by-step information revelation for complicated products in the financial industry.
- Digital Transformation: The empirical evidence presented here supports the argument that digital transformation can rework traditional business functions in manners in accordance with compliance requirements.
- Personalization Theory: The operation of the personalization engine, according to personalization theory, provides meaningful evidence on the correct application of personalization in contractual financial services.

D. Limitations

Our findings provide practitioners with some useful lessons to bear in mind:

- Integration Plan: The primary focus was on the insurance companies to create APIs to allow integration with centralized systems.
- Customization Strategy: Insurers should consider developing more adaptable insurance policies that permit client-driven customization.
- Digital Verification: Digital KYC investments have the potential to enhance the client experience substantially while ensuring compliance.
- Data Utilization: Use of available sources of information, like government databases, can actually help minimize the application process.
- User Directions: Contextual directions are still useful when defining complex customization options.

VII. CONCLUSION AND FUTURE WORK

A. Summary of Contributions

InsurTech Hub, the sole Integrated Insurance Management System that fills the broad gaps in the insurance industry today, is presented in this report. The system supports tailored insurance policies, Know Your Customer automated procedures, and merges policies from more than one insurer within an economical method. Contrary to conventional insurance systems, results from the tests show enhanced efficiency, performance, and customer satisfaction.

Important contributions consist of:

- An integrated architecture of combined insurance management.
- Emerging insurance personalization and customization strategies
- Effective digital verification procedures that are regulation-compliant.
- Empirical data indicate that central control enhances the user experience.

Lessons gained from incorporating challenges in the insurance sector.



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B. Future Research Directions

This article responds to some of the most compelling lines of future inquiry:

- Next-generation personalization: Summary of emerging artificial intelligence algorithms for personalization from big data sets and behavior patterns.
- Cross-border insurance involves consideration of issues with the conduct of insurance under other regulatory regimes.
- Ecosystem Integration: Ecosystem integration is used to refer to the language of interaction with other financial services, i.e., in the sense of supporting overall financial management.
- Behavioral Insurance Models: Assessing the potential effect of individual insurance on risk behavior and claim patterns.
- Platform Economics: A Deep Dive into Business Models for Long-Term Insurance Aggregation Platforms.

C. Realistic Next Steps

Some possible follow-ups are suggested, and above all, in the instance of the InsurTech Hub:

- The establishment of firms that provide all-round covers.
- Enhancing the depth of the advanced interactive capabilities of the AI chatbot.
- Changing the degree of customization according to consumer feedback.
- Reviewing collaborative alliances for platform-specialized services with insurance providers.
- Developing additional metrics to measure long-term user activity.

A key addition to insurance management practice, the flexible and centralized structure provided in this study provides the entry point for innovation in the InsurTech sector.

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