

Infosys Springboard Virtual Internship 6.0 Completion Report

Team Details Team - A <Abhishek Kumar, Arti Kanojiya, Abhishek Sharma, Mohan Raj PS, Ponshival S K, Shivasankar S, Shreya Agrawal.>

Batch Number Group 2_Batch-5

Start date: 13-Oct-2025

Names: <All Interns, names only>

Internship Duration: 8 Weeks

1. Project Title

InsurAI : AI Powered Insurance Web Platform.

2. Project Objective

The objective of this project is to build a digital insurance platform that simplifies the process of discovering, applying, and managing insurance policies. The system aims to benefit both users and agents by

- Reducing manual paperwork and delays
- Providing transparent policy details
- Automating approval workflows
- Enabling secure online interaction
- Preparing future AI-driven personalization

This project aligns with the insurance industry's need for digital transformation and enhances customer experience with faster and smarter services.

3. Project description in detail

Our project "InsurAI – Smart Online Insurance Management System" is designed to digitalize and automate the traditional insurance process using modern web technologies. In the current world, customers often struggle to find the right insurance plan because policies are scattered across different sources and involve a lot of manual paperwork. Our project aims to solve this problem by creating a single platform where users can discover, compare, and apply for insurance policies easily from anywhere.

The system is built with a React.js frontend to provide a smooth and user-friendly experience. The frontend allows users to browse various categories like health insurance, bike insurance, life insurance, and many others. Each policy card clearly displays important information such as premium amount, benefits, and terms. Users can log in and apply for policies directly through the system.

We used Spring Boot on the backend to handle business logic, secure operations, and communication with the database. When a user registers or logs in, the request is validated in the backend, and the information is securely stored in the database. Same way, when an admin adds a new policy, it gets saved into the database and instantly becomes visible to users. This ensures that the application remains accurate and updated in real time.

All data is stored in MySQL, which makes our platform scalable and reliable. We implemented structured data models such as User, Policy, and Applications to maintain a secure and trackable workflow. Every application submitted by a user goes to the admin dashboard, where the admin can approve or reject based on eligibility. The status updates are then reflected back to the user interface.

We have also introduced features such as JWT-based authentication and role-based access control, ensuring that users and admins can only perform allowed actions. Apart from basic operations, we have designed modules for premium payment, application lifecycle tracking, and future appointment scheduling (planned for integration). The system is developed keeping in mind real-world usage, where security, accessibility, and transparency are very important.

This project shows how modern full-stack development can transform the insurance industry by reducing paperwork, speeding up approval processes, and enhancing customer convenience. Through this system, we learned how to build a complete end-to-end solution by integrating frontend, backend, and database components together and making them function as one platform.

4. Timeline Overview

Week	Activities Planned	Activities Completed
Week 1	Requirement gathering & architecture planning	Completed workflow design and tech stack finalization
Week 2	UI Design & Home Page development	Home page completed with category display
Week 3	Login & Registration with database	User authentication implemented with MySQL
Week 4	Policy module creation	Admin uploading and storing policies in DB completed
Week 5	Show policies to users & details page	API integration and policy view completed
Week 6	Application submission system	Apply now and pending status added
Week 7	Admin approval system & status update	Approved / Rejected flow implemented
Week 8	Final testing & project report creation	Debugging, deployment and documentation completed

5a. Key Milestones

Milestone	Description	Date Achieved
Project Kick-off	Roles assigned and plan setup	15 Oct 2025
Prototype / First Draft	Home page + Login/Signup working	26 Oct 2025
Mid-Term Review	Policies CRUD and Application flow	17 Nov 2025
Final Submission	Fully working integrated system	24 Nov 2025
Presentation	UI walkthrough and live demo	28 Nov 2025

5b. Project execution details

The development of the InsurAI – Smart Online Insurance Management System was executed using a structured and phased approach. We followed full-stack development practices where each feature was divided into backend, frontend, and database integration steps. The entire execution was done collaboratively using version control and regular testing.

We began by designing the overall system architecture including pages, databases, and user roles. Once the requirements were clearly understood, we built the login and registration module using React for the frontend and Spring Boot for the backend. After successful authentication testing, we created role-based access for Users and Admins.

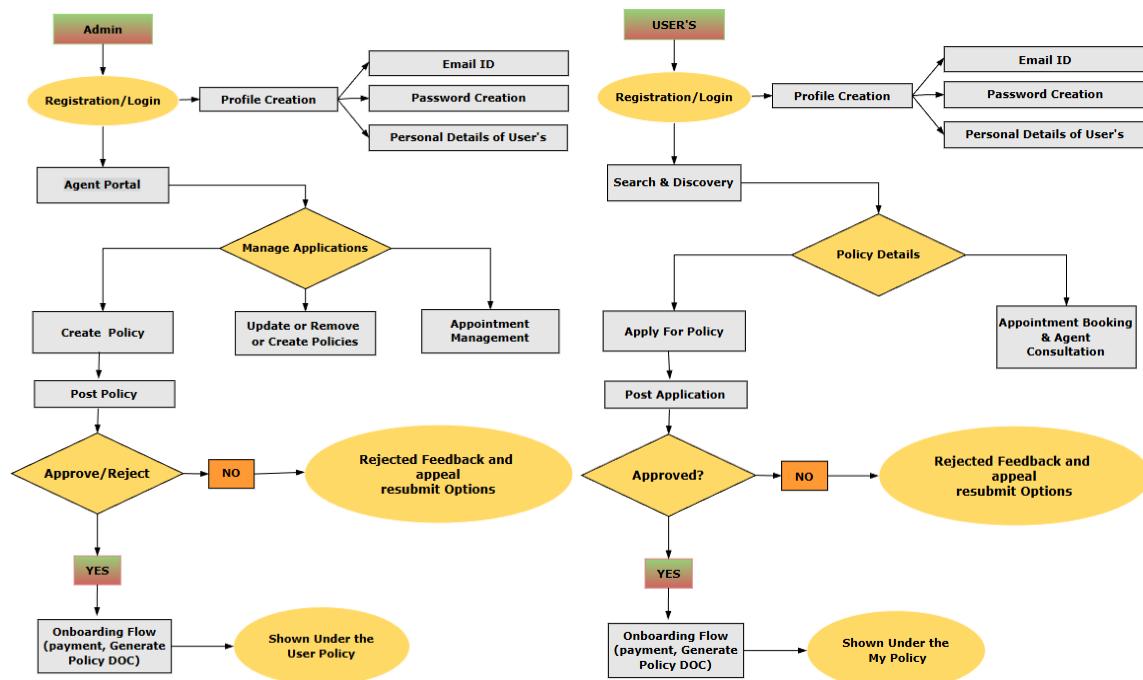
The admin module was developed next, allowing admins to create and manage policies. These policies are stored in MySQL and made visible instantly on the user side. Policies were retrieved using REST APIs and displayed as cards on the homepage.

We implemented a process where users can apply for any policy. The application details are securely sent to the backend, where they are stored with a status of Pending. Admins can review and update the application status to Approved or Rejected, and these updates are reflected to the user in real-time.

Throughout the development, we continuously tested each module by using tools such as Postman for API testing and browser dev tools for frontend checks. Error handling, data validation, secure routing, and database connections were improved as we progressed. Regular team discussions, debugging, and improvements helped us complete the end-to-end workflow successfully.

Layer	Technology	Purpose
Frontend	React.js	UI creation, API calls, routing
Backend	Spring Boot	Business logic, APIs, security
Database	MySQL	Data storage for users, policies & applications
Testing	Postman, Browser Tools	API & UI functionality validation
Authentication	JWT Token	Secure login & access control

System Flow Explanation



6. Snapshots / Screenshots

Login

user2@example.com
.....
Login

Register

Abhishek Kumar
user2@example.com
.....
Register

Register as
 User Agent

The homepage features a central banner with a man sitting on a couch using a laptop, surrounded by a shield icon. The text reads "Insure Your Future Digitally, Anytime, Anywhere". Below the banner are sections for "Car Insurance Plans" and "Insurance Categories".

Category	Description
Term Life	
Health	
Car Insurance	
Child Plans	
Retirement	
Home Insurance	
Employee Group Insurance	

The Agent Portal has two main sections: "Create Policy" on the left and "All Policies" on the right. The "Create Policy" section includes fields for Policy Name, Premium Amount, Category (Term Life), Description, Benefits, Terms & Conditions, and an "Add Policy" button. The "All Policies" section is a table listing various policies with columns for Policy Name, Premium, Category, and Actions (Edit, Delete).

Policy Name	Premium	Category	Actions
AutoProtect Comprehensive	₹5000	Car Insurance	<button>Edit</button> <button>Delete</button>
BrightFuture Child Advantage	₹15000	Child Plans	<button>Edit</button> <button>Delete</button>
CarShield Max Secure	₹7500	Car Insurance	<button>Edit</button> <button>Delete</button>
Child Plan	₹2000	Child Plans	<button>Edit</button> <button>Delete</button>
FamilySecure Term Guard	₹9800	Term Life	<button>Edit</button> <button>Delete</button>
HomeGuard Protection	₹9000	Home Insurance	<button>Edit</button> <button>Delete</button>
Life Insurance	₹7798	Term Life	<button>Edit</button> <button>Delete</button>
LifeShield Advantage Term	₹15000	Term Life	<button>Edit</button> <button>Delete</button>
SecureTerm Life Protect	₹12000	Term Life	<button>Edit</button> <button>Delete</button>

Policy Category Distribution

Category	Count
Term Life	5
Health	1
Car Insurance	2
Travel	1
Child Plans	2
Retirement	0
Home Insurance	1
Employee Group Insurance	0

About InsurAI

At InsurAI, we believe the future of insurance lies in intelligence — not paperwork.

We are an innovative AI-driven platform dedicated to transforming the way people discover, compare, and manage insurance. By combining cutting-edge machine learning, predictive analytics, and automation, we simplify complex insurance processes and make them smarter, faster, and fairer.

Our Mission

Our mission is to bring trust and transparency back into insurance. We empower customers with personalized recommendations, real-time risk analysis, and instant claim validation — all powered by secure, explainable AI models.

With a team of AI engineers, insurance experts, and data scientists, we aim to revolutionize the industry by building a digital ecosystem that adapts to every individual's needs.

Our Core Values

- Transparency & Fairness
- Data Privacy & Security
- Innovation & Scalability
- Customer Empowerment

Get In Touch

- Email: contact@aiinsuretech.com
- Phone: +1-555-123-4567
- Instagram: @aiinsuretech

Join us in redefining the insurance experience — one smart policy at a time.

7. Challenges Faced

During the internship, we encountered several technical and operational challenges while building the InsurAI insurance platform. Initially, understanding Spring Boot backend connections with React was challenging, especially in handling REST APIs and resolving CORS issues. We faced data mapping errors due to DTO–Entity conversions and trouble fetching policies dynamically from MySQL. User role-based authentication also required debugging to ensure proper authorization between Admin and User modules.

We overcame these challenges through continuous research, mentor guidance, and documenting issues during debugging. Using Postman to test APIs before frontend integration helped reduce errors. Team discussions and problem-solving improved our technical confidence and enabled smooth completion of the system workflow.

8. Learnings & Skills Acquired

Throughout the internship, we enhanced both technical and soft skills. Technically, we gained hands-on experience in React.js for building dynamic UI, Spring Boot for backend logic, MySQL for database design, and REST API integration for full-stack development. We learned secure authentication using JWT tokens and proper usage of DTOs, services, and controllers in layered architecture.

Additionally, we developed teamwork, communication, time management, documentation skills, and real-world problem-solving approaches. We understood how professional applications are built, tested, and deployed using industry standards. This internship gave us exposure to how enterprise technology ecosystems operate.

9. Testimonials from team

- “This internship helped me transform classroom knowledge into real project experience. I enjoyed building features that solve real-world needs.”
- “Working with modern technologies like Spring Boot and React boosted my confidence in full-stack development.”
- “The mentorship and learning content from Infosys Springboard helped me explore new tools and improve my technical thinking.”
- “Team collaboration and debugging sessions taught us how real software projects are executed in companies.”

10. Conclusion

The Infosys Springboard Virtual Internship was a highly enriching learning experience. We successfully built an AI-oriented insurance management system that demonstrates digital transformation in the insurance industry. By implementing core modules like authentication, policy management, and application approval workflows, we learned complete full-stack development lifecycle practices.

This project aligned with our academic goals by strengthening our understanding of enterprise software development and prepares us for future roles in the IT industry. The internship has motivated us to continue learning modern technologies and pursue a career in software engineering.

11. Acknowledgements

We sincerely thank **Infosys Springboard** for providing us the opportunity to learn, explore, and work on a real-world industry-aligned project. We would like to express our heartfelt gratitude to our mentor **Mr. Senthil Subramanian** for his continuous guidance, motivation, and valuable feedback throughout the internship journey. His support helped us overcome challenges and improve the quality of our work.

We also extend our thanks to all our teammates for their collaboration, dedication, and teamwork, which played a significant role in successfully completing this project.