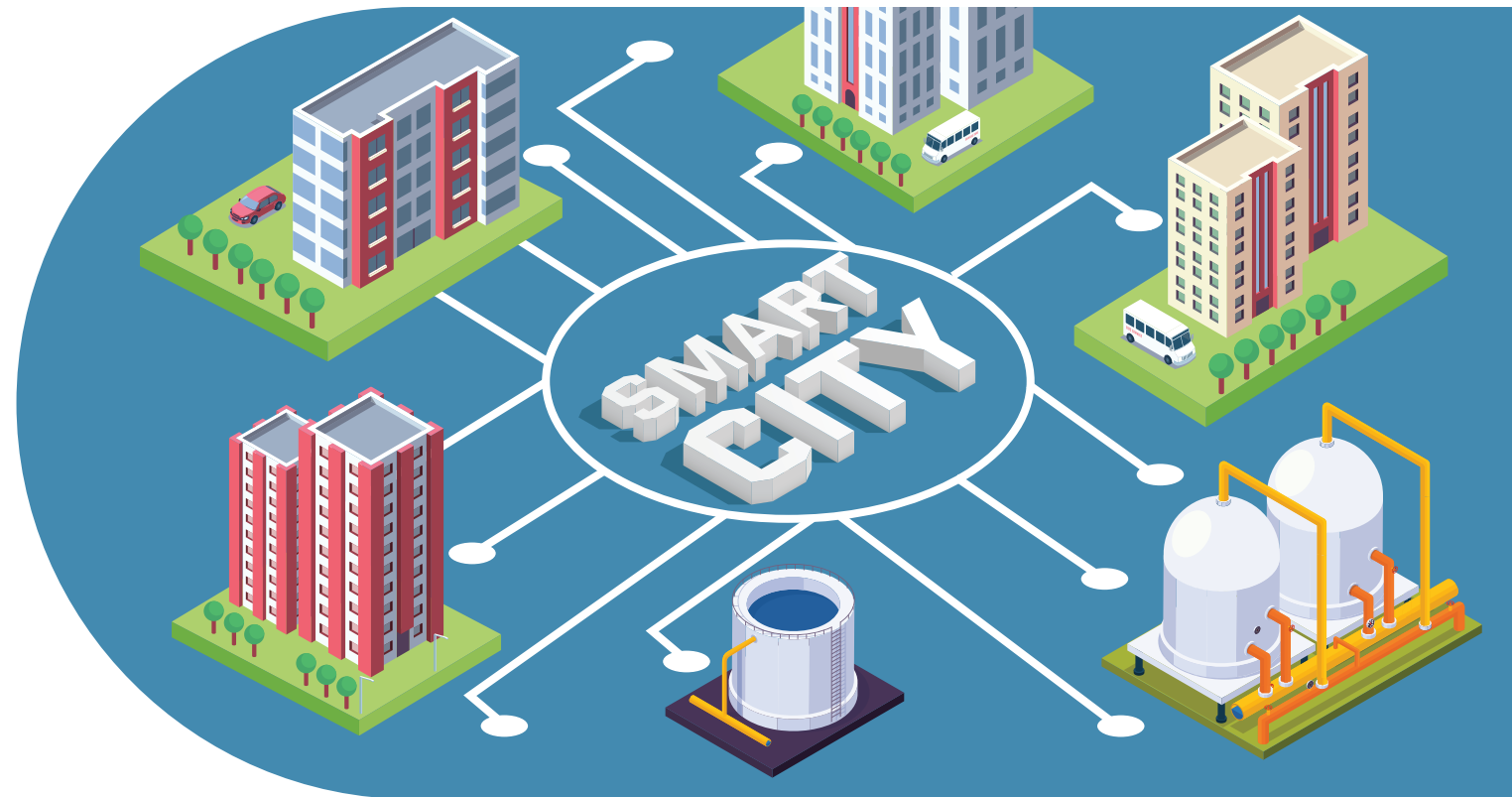


Elegant MicroWeb
Delivering the Value of Technology

Case Study

**Property Assessment and Water Management Software Solution
for a Smart City in India**



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Case Study

Property Assessment and Water Management Software Solution for a Smart City in India

The Client

The Client is one of several smart cities identified within the urban municipalities in India. Smart Cities focus on prioritizing pressing needs and identify the greatest opportunities to improve living conditions. As a smart city, the Client organization uses a range of approaches to achieve its goals including digital and information technologies, urban planning best practices, public-private partnerships, and policy changes.

The Objective

The Client objective was to automate the process used to complete property assessment and optimize water management. The Client wanted to create a property assessment module to streamline and better manage the assessment process, to facilitate property transfer, tax calculation, tax bill generations and payment collection. The objective for the water management module was to streamline and manage the process of water/drainage connection requests, ownership transfer, bill generation and payment collection.

The Solution

The Elegant MicroWeb worked closely with the Client team to define requirements and design, develop and implement solutions for a seamless rollout of new features and functionality.

The Elegant MicroWeb team coordinated its project and support approach to:

- Involve and coordinate with stakeholders for detailed requirements and process identification
- Involve and coordinate with key users to understand their existing workflow and suggest improvements
- Involve and coordinate with Client team to automate processes and restructure report output
- Define and implement quality, user acceptance testing and support processes to accommodate upgrades and ongoing maintenance
- Develop and deploy an appropriate training program for users



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The scope of this project included:

- Requirements gathering and understanding
- System Requirement Study - SRS and Technical Documentation
- Restructuring existing workflow and processes
- Design and development of ERP system
- User Acceptance Testing
- Support & Maintenance
- Training

The solution includes:

- Cloud-based application development.
- Branding, look n' feel configuration and settings
- Responsive interface with similar user experience across various devices, resolutions and platforms
- Role-based access rights and permission to access system
- Implementation of various business rules
- Features to complete and manage property assessments, property transfer, bill accessibility and payment, duplicate bill generation, tax payment and advance payments etc.
- Features to allow the Client to perform notice generation, warrant execution, payment collection, receipt generation, to raise objections and to get the MIS reports for all activities
- Integration with SAP
- Business Intelligence Analytics and Reports

Core Application Components

Property Assessment Solution:

- Master Management
- Transaction Management
- Notice Generation
- Bill/Warrant Generation
- LOI Generation
- Certificates Generation for Assessment, No Payment Due and more

Water Management Solution:

- Master Management
- Transactions Management
- Meter Reading
- Bill Generation
- Plumber Licensing

The Technology

- Server: Java, Spring Boot
- Front-end: Angular
- Database: PostgreSQL
- Integration: SAP, Jasper Reports for Analytics



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Elegant MicroWeb Role

The Elegant MicroWeb team provided support, knowledge and skill in the following areas and activities:

- Requirement documentation and roadmap planning in close consultation with all stakeholders
- Complex logic, calculations and workflow brainstorming and finalization process
- Technical feasibility
- Graphics, layout and user experience design
- Architecture, development, maintenance and support
- Continuous enhancement, upgrade and roll out
- Implementation, integration and support
- Training and support to IT team and business users

Conclusion

The Elegant MicroWeb team collaborated with the Client team to develop a comprehensive understanding of requirements, workflow and processes and to define a database design and architecture to meet these requirements. Using the Agile Development Methodology, the Elegant MicroWeb team developed modules as part of an ERP system and implemented these modules, working with users to deploy, train and support in a way that was most meaningful to the user base in a particular role or location. The resulting application provides a centralized view of all core activities and processes and allows for advanced reporting for units and teams, optimizing resources and ensuring productivity while alleviating the manual management and reporting processes previously in place.



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Contact Us

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EMR5171C – Case Study – Smart City Property and Water Management Software Solution in India - Version 1.0 - Published 2020
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