





Chapter 6


Legal Design Thinking in Software Engineering: A Review of User-Centered Innovations in Legal Technology


Pablo Alfonso Aguilar Calderón
 <https://orcid.org/0000-0002-4939-0383>
*Universidad Autónoma de Sinaloa,
Mexico*

Pedro Alfonso Aguilar-Calderón
 <https://orcid.org/0000-0003-3881-909X>
*Universidad Autónoma de Sinaloa,
Mexico*

José Alfonso Aguilar-Calderón
 <https://orcid.org/0000-0003-2048-9600>
*Universidad Autónoma de Sinaloa,
Mexico*

Aníbal Zaldívar-Colado
 <https://orcid.org/0000-0002-6622-6630>
*Universidad Autónoma de Sinaloa,
Mexico*

Dominik Morales-Silva
 <https://orcid.org/0009-0002-9401-7235>
*Universidad Autónoma de Sinaloa,
Mexico*

Oscar Manuel Peña-Bañuelos
 <https://orcid.org/0009-0007-1241-9051>
*Universidad Autónoma de Sinaloa,
Mexico*

Carolina Tripp-Barba
 <https://orcid.org/0000-0002-4811-0247>
*Universidad Autónoma de Sinaloa,
Mexico*

ABSTRACT

The integration of Legal Design Thinking into software engineering represents a transformative shift in the development of legal technology. By applying user-centered design principles, this approach enhances legal accessibility, operational efficiency, and client satisfaction. This chapter systematically reviews the core tenets of Legal

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Design Thinking, including empathy, ideation, prototyping, and testing, and examines its role in improving legal services through software applications. Additionally, this work explores the challenges of integrating Legal Design Thinking into software development, particularly concerning technical constraints, ethical considerations, and regulatory compliance. Future opportunities, such as advancements in AI, automation, and interdisciplinary collaboration, are discussed as potential pathways for further innovation in the legal sector. This chapter aims to provide valuable insights for legal practitioners, software engineers, and policymakers in the evolving landscape of legal technology and user-centered innovation.

INTRODUCTION

The convergence of law and technology has fostered the development of innovative strategies designed to enhance the accessibility, efficiency, and overall user-friendliness of legal systems. One such strategy is Legal Design Thinking (LDT), an approach grounded in the core principles of design thinking but specifically adapted to navigate the distinct complexities inherent in the legal domain. As digital transformation continues to redefine various industries, the legal sector has not remained untouched by these changes. LDT has surfaced as a revolutionary methodology aimed at improving user experiences, optimizing procedural workflows, and expanding access to justice.

This chapter offers a comprehensive exploration of the fundamental principles underpinning Legal Design Thinking, detailing its application within the legal field. It also examines existing software solutions that embody and operationalize the LDT approach, highlighting their role in reshaping the landscape of legal technology. Furthermore, the chapter delves into the myriad challenges and opportunities associated with integrating LDT with software engineering, offering a nuanced analysis of its potential for driving systemic change in legal practices.

Through an in-depth review of the current body of literature, supported by case studies and real-world software applications, this work evaluates the tangible impact of LDT on the evolution of legal technology. It identifies both the obstacles faced in its implementation and the opportunities for further development, offering insights into how LDT can be optimized to foster more efficient, equitable, and accessible legal systems. Finally, this chapter proposes several potential avenues for future research, aimed at advancing the integration of LDT with emerging technological innovations and addressing the evolving demands of the legal profession.

This review is structured around four core areas of analysis, each aimed at providing a comprehensive understanding of the scope and implications of Legal Design Thinking within contemporary legal innovation:

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