



SOMAIYA
VIDYAVIHAR UNIVERSITY

K J Somaiya College of Engineering

**Submitted In Partial Fulfillment of
Requirements For the Degree Of
Second Year
Computer Engineering**

LawGuide

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Guide

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Vidyavihar, Mumbai - 400 077

Academic Year 2023-24



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CERTIFICATE

This is to certify that the SY Mini Project report entitled **Mini Project Title** submitted by **Meetesh Nagrecha (16010122123)** , **Hyder Presswala (16010122151)** and **Nilesh Pany (16010122131)** at the end of semester IV of SY B.Tech is a bona fide record for partial fulfillment of requirements for the degree in **Computer Engineering** of Somaiya Vidyavihar University.

Guide

Examiner

Date: 22/04/24

Place: Mumbai- 77

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Chapter 1: Introduction

Problem Statement:

Navigating the legal landscape is challenging for many individuals who struggle to find reliable information and connect with suitable lawyers. Existing platforms lack a comprehensive solution, prompting the need for Law Guide – a website integrating a chatbot for legal queries and a database of lawyers, aiming to provide accessible legal information and assistance for users filing cases or seeking legal advice.

SDG 16 - Sustainable Development Goals:

Law Guide aligns with SDG 16 by promoting access to justice for all and building effective, accountable, and inclusive institutions. By offering a centralized platform for legal information and connecting users with qualified lawyers, Law Guide contributes to advancing equal access to justice and empowering individuals to uphold their rights.

Scope of the Project:

1. **User-Friendly Interface:** Designing an intuitive and welcoming website interface accessible across devices, ensuring easy navigation for users seeking legal guidance.
2. **Privacy and Security:** Implementing robust measures to protect user privacy and confidentiality, including secure authentication and data encryption protocols.
3. **Legal Query Chatbot:** Integrating an interactive chatbot to provide immediate and personalized responses to users' legal inquiries, simplifying complex legal concepts and procedures.
4. **Lawyer Database:** Developing a comprehensive database of qualified lawyers categorized by specialization and expertise, enabling users to find suitable legal professionals for their specific needs.
5. **Case Filing Assistance:** Offering step-by-step guides and resources to assist users in preparing and filing legal cases accurately, reducing barriers to accessing the justice system.
6. **Legal Rule Repository:** Providing up-to-date information on legal rules, regulations, and statutes at local, state, and federal levels, empowering users with accurate legal knowledge.
7. **Interactive User Experience:** Creating an engaging and interactive platform with features such as user accounts, personalized recommendations, and community forums to enhance user engagement and satisfaction.
8. **Partnerships and Collaborations:** Establishing partnerships with legal institutions, organizations, and professionals to expand service coverage and ensure the quality and reliability of legal information and assistance provided.

By addressing these aspects in a user-centric approach, Law Guide endeavors to revolutionize legal



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assistance delivery, making it more accessible, inclusive, and empowering for individuals seeking to navigate the complexities of the legal system.

Literature survey

Background:

In a world where navigating the legal landscape can be daunting, many individuals find themselves struggling to access reliable information and connect with suitable legal professionals. The existing platforms often lack a comprehensive solution, leaving users feeling overwhelmed and disconnected from the legal support they need. Recognizing these challenges, Law Guide emerges as a beacon of hope, aiming to revolutionize the way individuals access legal assistance.

Inspiration:

Drawing inspiration from the transformative impact of digital technology in healthcare, Law Guide seeks to harness similar innovation to provide convenient and accessible legal services. Just as telemedicine has bridged the gap between patients and healthcare providers, Law Guide envisions a platform that seamlessly connects users with the legal guidance and support they require.

Objective:

At the heart of the Law Guide project lies a simple yet powerful objective: to empower individuals to navigate the complexities of the legal system with confidence and ease. By integrating cutting-edge technology, user-friendly interfaces, and a comprehensive database of legal professionals, Law Guide aspires to democratize access to legal assistance, ensuring that no one is left behind in their pursuit of justice.

Mission:

Our mission is clear: to transform the way people access legal support, making it as simple and accessible as a click of a button. Whether it's seeking clarification on legal terms, finding the right lawyer for a specific case, or preparing legal documentation, Law Guide is committed to providing timely and reliable assistance to users from all walks of life.

Values:

At Law Guide, we uphold the values of transparency, integrity, and inclusivity. We believe in empowering individuals to exercise their rights and make informed decisions, irrespective of their background or circumstances. By prioritizing user privacy and security, we ensure that every interaction on our platform is guided by trust and confidentiality.

Vision:

Our vision for Law Guide is bold yet attainable: to create a world where accessing legal assistance is no longer a privilege but a fundamental right. Through innovation, collaboration, and a steadfast commitment to our users, we strive to build a platform that not only meets their needs but exceeds their expectations, setting a new standard for legal support in the digital age.

References:

- American Bar Association. (2023). "Legal Technology Report: A Comprehensive Overview of the Latest Trends in Legal Tech."
- Legal Services Corporation. (2022). "Report on the Delivery of Legal Services to Low-Income Individuals."
- International Conference on Law and Society. (2023). "Proceedings: Advancing Access to Justice through Technology and Innovation."
- Legal Information Institute. (2022). "State of Legal Information: Annual Report on the Availability and Accessibility of Legal Resources."
- National Center for State Courts. (2023). "Technology and Access to Justice: Promoting Equity and Efficiency in Legal Services Delivery."

These references reflect the diverse sources of information and research relevant to the legal landscape and the advancement of technology in legal services, aligning with the mission and objectives of your Law Guide website.



Chapter 3: Project design

System Design:

At Law Guide, we've crafted a user-friendly system to effortlessly connect individuals with the legal help they need. Our platform consists of different parts, each designed to make your experience smooth and hassle-free. From finding the right lawyer to getting help with filing a case, we've got you covered. Plus, our cloud-based setup means you can trust us to keep your information safe and accessible whenever you need it.

Frontend:

1. User Authentication: Easily sign up, log in, and log out securely.
2. Lawyer Search: Find the perfect lawyer based on expertise and location.
3. Case Filing Assistance: Get step-by-step guidance on filing your case accurately.
4. Interactive Chatbot: Get instant answers to your legal questions.
5. Legal Resources: Access helpful guides and resources on various legal topics.

Backend Services:

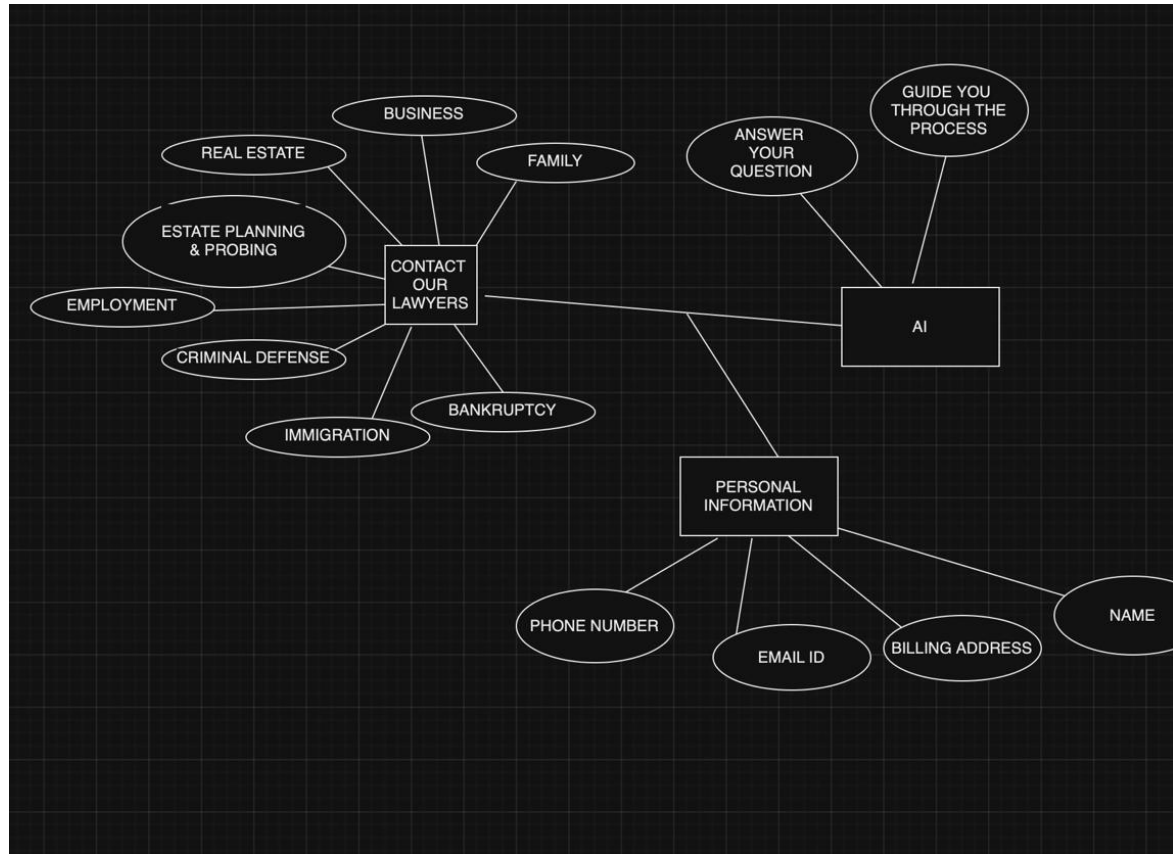
We use reliable backend services to ensure everything runs smoothly behind the scenes, keeping your data safe and secure.

Tools We Use:

We develop using tools like Visual Studio Code (VS-Code) and keep track of changes using GitHub, so you can trust that our platform is always up-to-date and improving.

At Law Guide, we've made sure that our platform is easy to use, so you can get the legal help you need without any hassle.

ER Diagram:



Use Case Diagram:



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Software used:

- Application Development Tools:
 1. IDE: Visual Studio Code
 2. PGAdmin
 3. MyPhP
 4. Testing: Self testing
- Programming Framework:

Html,Css,Js, PhP

Hardware used:

- 1) Device with an internet connection.
- 2) Device with Windows/ Mac os.

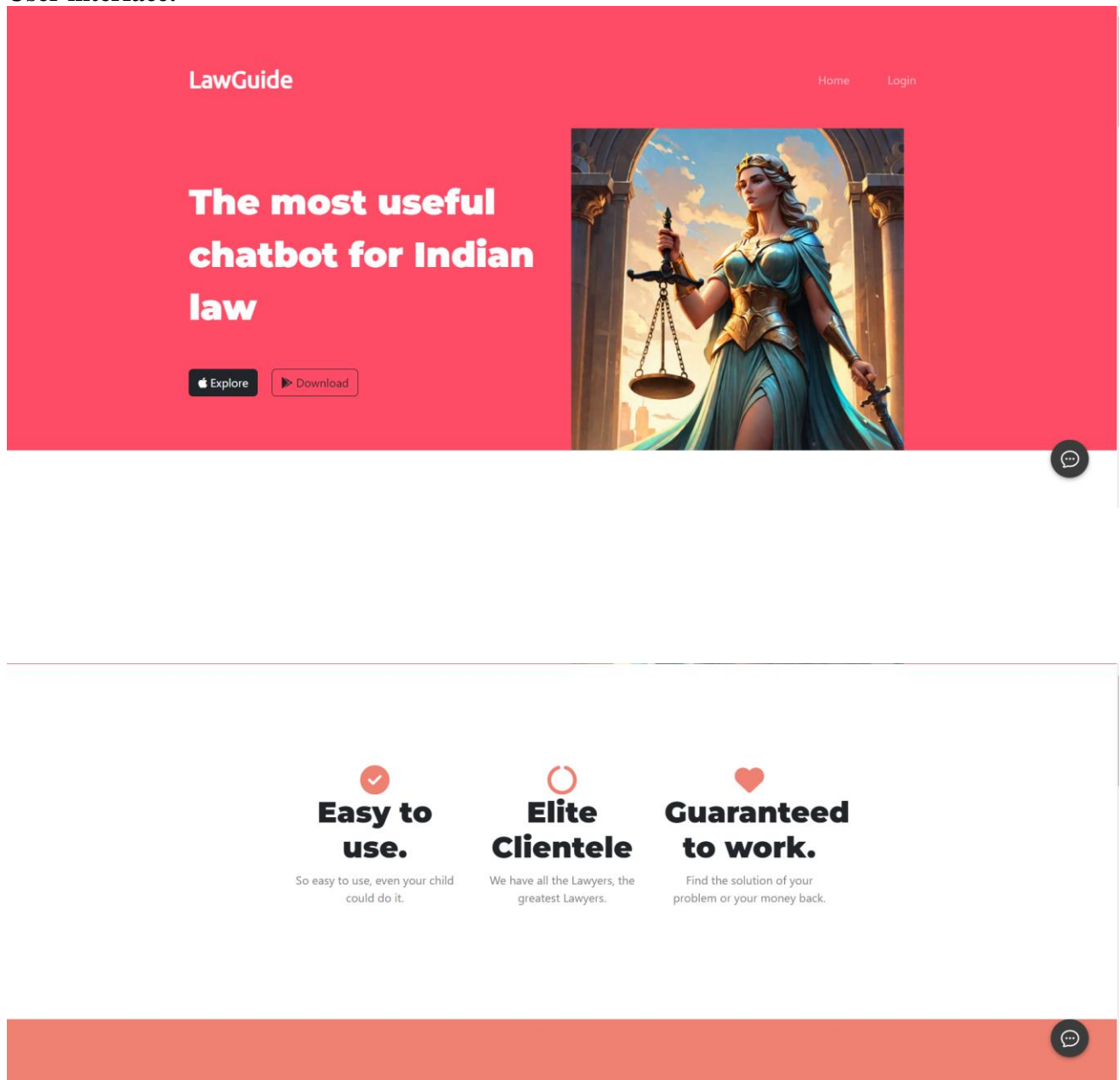


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Chapter 4: Implementation of project

User interface:





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Best advice on law for free across the internet



Meetesh, Nagrecha



TC TechCrunch

TNW
THE NEXT WEB

BUSINESS INSIDER

Mashable



Law Guide: Your one-stop solution for legal queries, case filing assistance, and connecting with expert lawyers



Meetesh, Mumbai



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A Plan for Every client's Needs

Simple and affordable price plans for you and your legal journey.

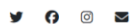
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Connected successfully to PostgreSQL.

Login to Your Account

Username:

Password:

Don't have an account? [Sign up here.](#)

Create Your Account

Username:

Password:

Already have an account? [Login here.](#)



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B

Bot

This chatbot was built surprisingly fast with Botpress



Apr 21, 11:09 PM

Hello

Hello there! I'm your personal legal assistant bot, ready to help you navigate through Indian law. Need advice from a real expert? How about connecting with a qualified lawyer? I can assist you in finding the right legal professional for your specific needs.

B

ready to get started

Yes

Maybe, next time

Chat with bot

We're ⚡ by Botpress



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Chapter 5. Testing the Design

Software Testing:

Test case	Description	Intended result	Actual result	Completed by
Login Validation Form	Checks if user has signed up before logging in	Prevents login without signup	Successfully prevented	Meetesh Nagrecha,
Website Design	Information is stored in the database	Database returns requested information	Database returns requested information	Meetesh Nagrech, Hyder Presswala
BotPress	Trying to connect users to the Lawyers wanted	Smooth item claiming process with secure communication	User can Successfully connect to Lawyers using BotPress	Hyder Presswala, Nilesh Paney Meetesh Nagrecha
Testing of Of BotPress	Observing how the BotPress reacts to various Prompts	Must give proper Course of action according to Indian Law	Sometimes does not give expected Result	Meetesh Nagrech, Hyder Presswala



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Responsibility Matrix:

Task No	Task	Due date of Completion	Implementer	Analyst
T1	Problem Statement	2nd week of Jan 2024	Meetesh , Nilesh	Meeetesh , Nilesh
T2	Scope	2nd week of Jan 2024	Meeetesh , Nilesh	Hyder , Nilesh
T3	Designing	3rd week of Jan 2024	Meeetesh , Nilesh	Hyder , Nilesh
T4	Execution	Last week of Jan 2024	Hyder , Nilesh	Meeetesh , Nilesh
T5	Execution	1st week of Feb 2024	, Meeetesh	Hyder , Meeetesh
T6	Execution	2nd week of Feb 2024	Hyder ,Nilesh	
T7	Execution	3rd week of Feb 2024	Hyder , Meeetesh	Hyder , Nilesh
T8	Review	1st Week of Mar2024	Meeetesh , Nilesh	Meeetesh , Nilesh
T9	Execution	2nd Week of Mar 2024	Hyder ,Nilesh	Meeetesh , Nilesh
T10	Execution	3rd Week of Mar 2024	Meeetesh , Nilesh	Meeetesh , Nilesh
T11	Execution	4th Week of Mar 2024	Hyder ,Nilesh	Hyder , Meeetesh
T12	Execution	1st Week of April 2024	Meeetesh , Nilesh	Hyder , Nilesh
T13	Testing	2nd Week of April 2024	Meeetesh , Nilesh	Meeetesh , Nilesh
T14	Testing	3rd Week of April 2024	Hyder , Meeetesh	Hyder , Nilesh
T15	End product Approval	4thWeek of April 2024	Hyder , Nilesh , Meeetesh	Hyder , Nilesh , Meeetesh

Conclusion

In conclusion, Law Guide represents a groundbreaking initiative poised to revolutionize the legal landscape, making legal assistance more accessible and user-friendly than ever before. With its intuitive interface and cutting-edge features, Law Guide simplifies the process of accessing legal information and connecting with qualified lawyers, regardless of one's location or familiarity with legal jargon.

By offering a comprehensive range of services, including remote consultations, lawyer search functionalities, case filing assistance, and educational resources, Law Guide empowers individuals to navigate legal matters confidently from the comfort of their own homes. With a steadfast commitment to user satisfaction, privacy, and security, Law Guide sets a new standard for legal assistance, ensuring that everyone has equal access to justice and legal support when they need it most.

In a world where legal complexities can often feel overwhelming, Law Guide emerges as a beacon of hope, bridging the gap between individuals and legal professionals and paving the way for a fairer and more inclusive legal system. Together, we're reshaping the future of legal assistance, making it more accessible, transparent, and empowering for all.

Future Scope

1. Global Expansion
2. Mobile App Development
3. Personalized Legal Insights
4. Integration with Wearable Devices
5. Community Engagement

Webliography:-

1. Legal Information Institute (LII), Cornell Law School: <https://www.law.cornell.edu/> A nonprofit organization that publishes legal information and resources, including laws, regulations, and court decisions.
2. FindLaw: <https://www.findlaw.com/> A comprehensive legal website that provides information on various legal topics, case law, and legal news.
3. Justia: <https://www.justia.com/> A legal resource platform offering access to case law, codes, regulations, legal articles, and lawyer directories.
4. LexisNexis: <https://www.lexisnexis.com/> A leading provider of legal research and analytics solutions, offering access to a vast collection of legal resources and tools.
5. Westlaw: <https://legal.thomsonreuters.com/en/products/westlaw> A widely-used online legal research service provided by Thomson Reuters, offering access to case law, statutes, and legal publications.
6. Law Library of Congress: <https://www.loc.gov/law/> The official law library of the United States, providing access to a wealth of legal resources, including foreign and comparative law materials.
7. American Bar Association (ABA): <https://www.americanbar.org/> The national organization of legal professionals in the United States, offering publications, resources, and news related to the legal profession.
8. World Legal Information Institute (WorldLII): <http://www.worldlii.org/> A free, independent, and non-profit global legal research facility that provides access to legal information from various countries and international organizations.
9. European e-Justice Portal: <https://e-justice.europa.eu/> A website maintained by the European Union, offering access to legal information, tools, and resources related to European Union law and justice systems.

ACKNOWLEDGEMENTS

I would like to express my heartfelt gratitude to our mentor Dr Uday joshi who gave us the



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much needed guidance and support to complete the project on time while ensuring that it was up to the standards. I would also like to thank our mentor for giving us the opportunity to work on such a wonderful project where we could learn so much more about web and software development.