

Practicum Report

**“AdvoAdvice”**

Under the Guidance

of

**Dr. Deepti Chopra**

**Submitted By:**

**Aryan Gupta, 04517711922, AI & DS ( A )**

**Akanksha Sharma, 01117708423, AI & DS ( B )**

**Saumya Giri, 00917708423, AI & DS ( B )**

**Harsh Sharma, 00717708423, AI & DS ( B )**

**DECLARATION**

This is to certify that Practicum Report titled “AdvoAdvice”, for the Practicum course with AIDS260/AIML260/IIOT260 is submitted by Aryan Gupta (04517711922), Akanksha Sharma (01117708423), Saumya Giri (00917708423), Harsh Sharma (00717708423), in partial fulfillment of the requirement for the award of degree B.Tech. in Artificial Intelligence and Machine Learning/ Artificial Intelligence and Data Science/ Industrial Internet of Things, VIPS-TC, GGSIP University, Dwarka, Delhi. It comprises of our original work. The due affirmation has been made within the report for utilizing the referenced work.

**Date: Signature <** Aryan Gupta (04517711922) **>**

**Signature <** Akanksha Sharma (01117708423) **>**

**Signature <** Saumya Giri (00917708423) **>**

**Signature <** Harsh Sharma (00717708423) **>**

**Certificate by Supervisor**

This is to certify that Practicum Report titled “AdvoAdvice” for the Practicum course with AIDS260 is submitted by Aryan Gupta (04517711922), Akanksha Sharma (01117708423), Saumya Giri (00917708423), Harsh Sharma (00717708423) in partial fulfillment of the requirement for the award of degree B.Tech in Artificial Intelligence and Machine Learning/ Artificial Intelligence and Data Science/ Industrial Internet of Things, VIPS-TC, GGSIP University, Dwarka, Delhi. It is a record of the candidates own work carried out by them under my supervision. The matter embodied in this Report is original and has not been submitted for the award of any other degree.

**Date: (Signature)**

**SUPERVISOR<Dr. Deepti Chopra,**

**>**

**<Signature of HOD> <Signature of Branch Coordinator>**

**Acknowledgement**

We would like to express my heartfelt gratitude to all those who have contributed to the successful completion of our practicum report. First and foremost, we would like to extend our deepest appreciation to our supervisor, [Supervisor's Name], for their constant guidance, valuable insights, and unwavering support throughout this journey. We are also indebted to the staff and faculty members of VIPS-TC, GGSIPU, Dwarka, Delhi, whose expertise and cooperation were instrumental in enhancing our learning experience. Additionally, we are grateful to our fellow students who provided us with invaluable feedback and encouragement.

(Signature of the students)

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**CHAPTER-1**

**INTRODUCTION**

Overview

AdvoAdvice is a groundbreaking project aiming to revolutionize legal accessibility and understanding through an innovative web-based platform. Its primary objective is to simplify complex legal documents into easily comprehensible language, making legal services more accessible to the general public. The platform achieves this by offering users the ability to convert intricate legal texts into layman's terms, thus empowering individuals to navigate legal processes with confidence and clarity.

Introduction

AdvoAdvice is an innovative web-based platform designed to streamline legal processes and make legal services more accessible. Through this online platform, users have the ability to transform complex legal documents into easily understandable language that caters to the needs of the general public. Additionally, users can seek clarification on legal matters and constitutional questions through interactive chatbot functionality.

This technology revolutionizes the way individuals interact with legal documentation, offering a simplified approach to understanding complex legal jargon. By providing a user-friendly interface, AdvoAdvice empowers users to navigate legal processes with confidence and clarity. Whether converting intricate legal documents into layman's terms or seeking answers to legal inquiries, the platform's comprehensive features cater to a wide range of legal needs.

Furthermore, the incorporation of a chatbot enhances user experience by offering real-time responses to questions related to law and constitution. This interactive feature serves as a valuable resource for users seeking immediate guidance on legal matters, ensuring timely and accurate assistance.

In essence, AdvoAdvice represents a transformative solution in the legal technology landscape, bridging the gap between legal expertise and everyday users. By leveraging the power of web-based technology and intuitive design, the platform facilitates greater accessibility and understanding of legal processes, empowering individuals to navigate the complexities of the legal system with ease.

Key features of AdvoAdvice include:

**Document Simplification:** The platform allows users to transform complex legal documents into easily understandable language tailored to the needs of non-legal professionals. This feature significantly enhances accessibility to legal information and facilitates informed decision-making.

**Interactive Chatbot:** AdvoAdvice incorporates an interactive chatbot functionality that provides real-time responses to users' legal inquiries and constitutional questions. This feature serves as a valuable resource for individuals seeking immediate guidance on legal matters, ensuring timely and accurate assistance.

**User-Friendly Interface:** With a focus on intuitive design, AdvoAdvice offers a user-friendly interface that enhances the overall user experience. The platform's comprehensive features cater to a wide range of legal needs, empowering users to navigate the complexities of the legal system with ease.

Purpose

The AdvoAdvice project is driven by a multifaceted purpose aimed at revolutionizing the accessibility and comprehension of legal information and services for the general public. At its core, the project endeavors to tackle the formidable barriers that often obstruct individuals from engaging effectively with the legal system. Through an amalgamation of cutting-edge web-based technology and user-centric design principles, AdvoAdvice aspires to achieve several overarching objectives:

Firstly, the project seeks to democratize access to legal knowledge by simplifying intricate legal documents into digestible and comprehensible language. By breaking down the formidable walls of legal jargon, AdvoAdvice empowers individuals, regardless of their legal expertise, to grasp complex legal concepts and navigate legal processes with newfound confidence and clarity.

Secondly, AdvoAdvice endeavors to enhance legal literacy and understanding among the broader populace. Through the integration of an interactive chatbot feature, the platform provides real-time responses to users' queries on legal matters and constitutional intricacies. By offering immediate guidance and clarification, the project aims to foster a deeper understanding of the law and empower users to make informed decisions in legal contexts.

Furthermore, the project aims to bridge the glaring chasm between legal expertise and everyday users. By offering a seamlessly intuitive user interface and a suite of comprehensive features, AdvoAdvice ensures that individuals from diverse backgrounds and levels of legal proficiency can engage effectively with the legal system. Through this bridging effort, the project strives to empower individuals to navigate legal complexities with greater ease and self-assurance.

In essence, the AdvoAdvice project embodies a noble mission to democratize access to legal information and services, thereby fostering a more equitable and informed society. By harnessing the power of technology and human-centered design, AdvoAdvice endeavors to dismantle barriers, empower individuals, and pave the way for a more inclusive and accessible legal landscape.

Scope

The scope of the AdvoAdvice project is comprehensive, encompassing various technical, design, and user-centric considerations aimed at creating a transformative solution for legal accessibility and comprehension.

**CHAPTER-2**

**RELATED WORKS**

The related projects are as follows: -

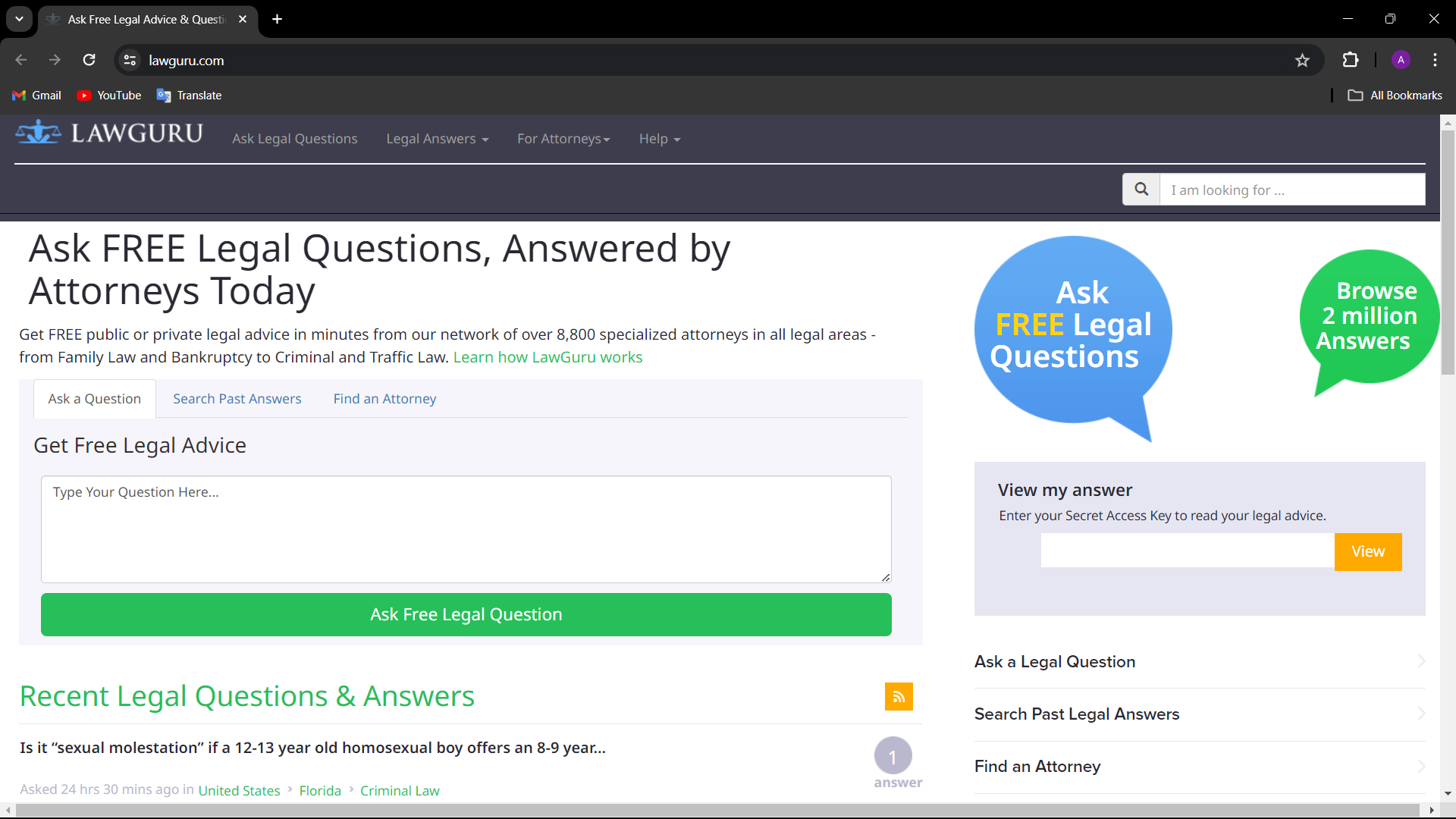
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Fig1:- LawGuru

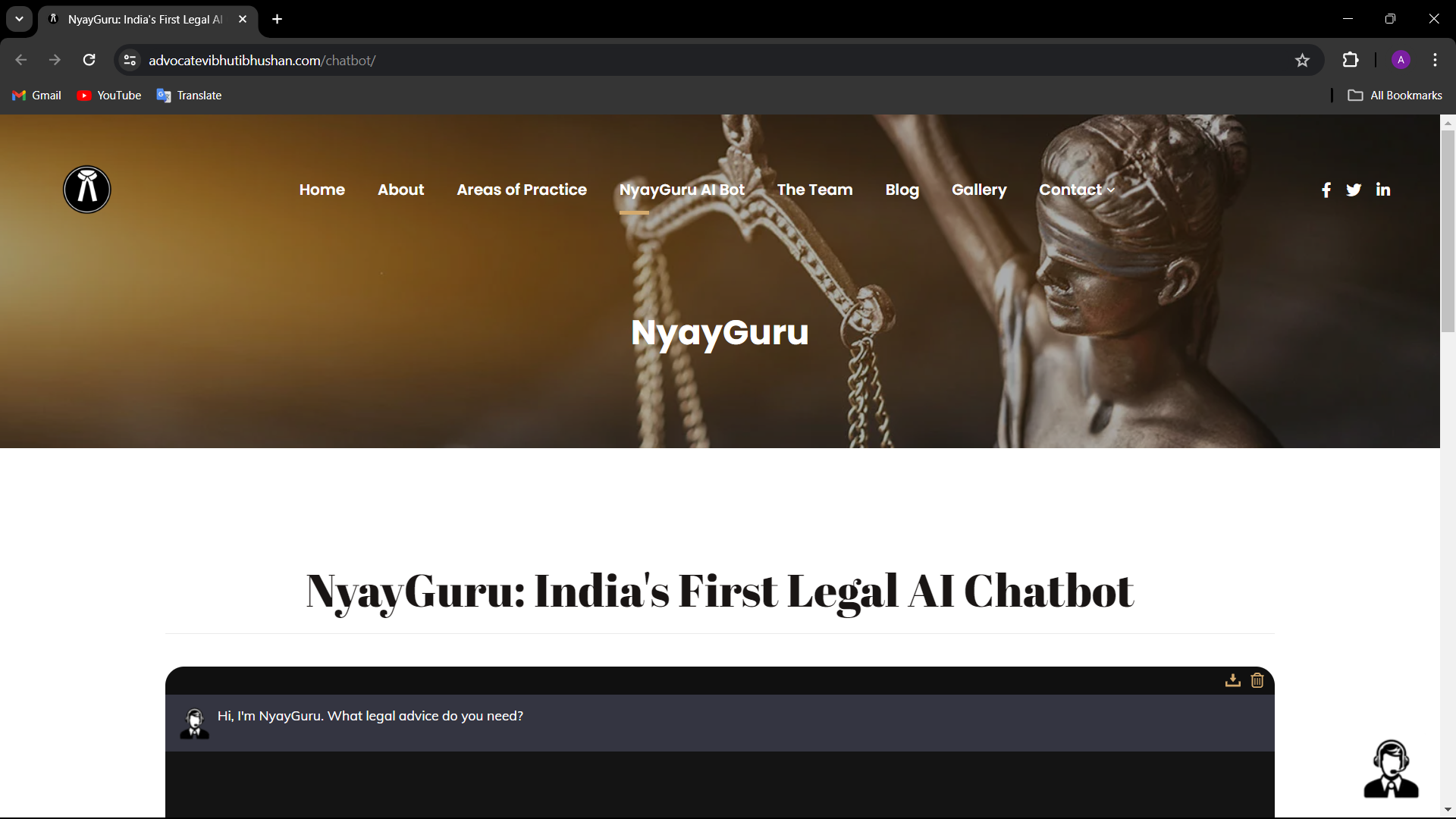
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Fig2:- NyayGuru

**CHAPTER-3**

**PROBLEM STATEMENT AND OBJECTIVES**

Problem Statement

In today's legal landscape, access to legal information and services remains a significant challenge for the general public. Complex legal documents and jargon-laden language often act as formidable barriers, impeding individuals from understanding their rights, obligations, and legal options. Moreover, the high cost of legal services and the scarcity of readily available guidance exacerbate the disparities in legal accessibility, particularly for marginalized communities and individuals with limited resources.

Existing efforts to simplify legal processes and enhance legal comprehension are often fragmented and lack comprehensive solutions. Traditional methods of seeking legal assistance, such as consulting legal professionals or navigating complex legal texts, are time-consuming, costly, and intimidating for many individuals. Additionally, the lack of user-friendly platforms and interactive tools further exacerbates the challenge of accessing timely and accurate legal guidance.

In light of these challenges, there is a pressing need for an innovative and inclusive solution that democratizes access to legal information and services. Such a solution should leverage the power of web-based technology, natural language processing, and user-centric design principles to simplify complex legal documents, provide real-time legal guidance, and empower individuals to navigate the legal system with confidence and clarity.

Therefore, the problem statement for the AdvoAdvice project is to develop a comprehensive web-based platform that streamlines legal processes, transforms complex legal documents into easily understandable language, and offers interactive chatbot functionality to address users' legal inquiries and constitutional questions. By bridging the gap between legal expertise and everyday users, AdvoAdvice aims to revolutionize legal accessibility, empower individuals, and foster a more equitable and informed society.

Objectives

The objective of the AdvoAdvice project is to develop an innovative web-based platform that democratizes access to legal information and services. Key objectives include:

1. **Simplifying Legal Processes:**

Identify and extract key legal concepts and terminology, translating them into layman's terms.

Implement a user-friendly interface that allows users to upload legal documents and receive simplified, easily understandable versions.

1. **Enhancing Legal Comprehension:**

Integrate an interactive chatbot feature capable of understanding users' legal inquiries and providing accurate responses in real-time.

Provide additional resources such as FAQs, legal glossaries, and explanatory articles to further enhance users' understanding of legal concepts.

1. **Bridging the Gap:**

Design a visually appealing and intuitive user interface that caters to users with varying levels of legal knowledge and expertise.

Conduct user testing and feedback sessions to iteratively improve the platform's usability and accessibility.

Collaborate with legal experts and organizations to ensure that the platform meets the needs of diverse user demographics and addresses specific legal challenges faced by different communities.

1. **Promoting Accessibility and Empowerment:**

Implement responsive design principles to ensure that the platform is accessible across different devices and screen sizes.

Offer multilingual support to cater to users from diverse linguistic backgrounds and facilitate greater inclusivity.

Provide educational resources and tutorials to empower users to navigate the legal system independently and make informed decisions about their legal rights and obligations.

**CHAPTER-4**

**PROJECT ANALYSIS AND DESIGN**

Analysis

**Client Side:**

|  |  |
| --- | --- |
| **RAM RAMfgdfRA RAM** | 512 MB |
|  |  |
| **Hard disk** | 10 GB |
|  |  |
| **Processor** | 1.0 GHz |
|  |  |

Table1: Client-Side Hardware Specification

**Server side:**

|  |  |
| --- | --- |
| **RAM** | **1 GB** |
| **Hard disk** | **20 GB** |
| **Processor** | **2.0 GHz** |

Table2: Server-Side Hardware Specification

**Software Requirement:**

**Client Side:**

|  |  |
| --- | --- |
| **Web Browser** | Google Chrome or any compatible browser |
| **Operating System** | Windows or any equivalent OS |

Table3: Client-Side Software Requirements

**Server Side:**

|  |  |
| --- | --- |
| **Server-side Language** | Python 3.12 |
| **Database Server** | SQL |
| **Web Browser** | Google Chrome or any compatible browser |
| **Operating System** | Windows or any equivalent OS |

Table4: Server-Side Software Requirements

1. **Frontend Technologies**

1) **HTML:**  HTML, or HyperText Markup Language, is the standard markup language for creating web pages and web applications. It provides the structure and content of a web page by using a system of tags and attributes to define various elements such as headings, paragraphs, images, links, forms, and more. HTML is used in the frontend of web development because it serves as the backbone of a web page's structure. It allows developers to define the layout and presentation of content on a webpage, ensuring that it is properly organized and accessible to users. Additionally, HTML works seamlessly with other frontend technologies such as CSS (Cascading Style Sheets) and JavaScript, allowing developers to create interactive and visually appealing web experiences.

2) **CSS:** CSS, or Cascading Style Sheets, is a language used to control the look and feel of a web page written in HTML. It helps define things like colors, fonts, spacing, layout, and more. By separating the visual presentation from the underlying content (handled by HTML), CSS makes it easier to create attractive and consistent designs across web pages. It's essential in frontend web development because it gives developers precise control over how their web pages appear, making them visually appealing, responsive, and accessible.

3) **JavaScript:** JavaScript is a scripting language used in frontend web development to add interactivity and dynamic functionality to web pages. It enables developers to create features like form validation, animations, and real-time updates without requiring a full page reload. By manipulating the Document Object Model (DOM), JavaScript can dynamically modify content and respond to user actions. It also facilitates asynchronous communication with servers, enabling seamless data retrieval and updates. JavaScript ensures cross-browser compatibility and enhances the user experience by providing interactive and responsive web interfaces. Overall, it's crucial in frontend development for creating engaging and functional web applications.

1. **Backend Technologies**: Back-end development focuses on the server-side aspects of web application. this kind of development cares with web site design, scripting, and communication with databases. Back-end code permits the communication between browsers and data from databases. Back-end developers concentrate on however a web site function, which implies they may work with arthropod genus, code that interacts with databases, libraries, knowledge design, and more. Back-end development works in conjunction with front-end development to supply users with a useful and interactive expertise.

Backend Technologies

1) Back-end Frameworks: Back-end frameworks create it easier and a lot of convenient to create consistent and stable back ends. in style frameworks include:

a) Django

b) Ruby on Rails

c) Flask

1. **Back-end Databases:** Database is that the assortment of inter-related knowledge that helps in economical retrieval, insertion and deletion of information from information and organizes the info within the style of tables, views, schemas, reports etc.The back finish of a web site consists of servers, applications, and databases. Databases square measure necessary as a result of they permit websites and applications to handle user knowledge. management systems (DBMS) acts as AN interface between the information and its users. A software permits users to access, update, and manage data.

Databases Used:

a) MySQL

Functional and Non-Functional Requirements

**Functional Requirements**

• All the information about the site is provided by the system.

• All the necessary information about the product with proper images and testimonials are provided by it.

**Non – Functional Requirements**

• On-going support and maintenance requirements

• Security

• Location or physical environment

**Techniques Used**

• Various front-end and back-end techniques

Design

Our website features a user-friendly interface designed to simplify legal processes and enhance accessibility to legal information. Key design elements include intuitive navigation menus, clear visual hierarchy, and interactive controls for seamless interaction. Users can easily upload complex legal documents and receive simplified versions in real-time. Our interactive chatbot offers personalized assistance, with options for text-based or voice-based interaction. The platform is responsive and accessible across various devices, ensuring optimal user experience. Continuous feedback loops drive iterative improvements, ensuring that our website remains intuitive, accessible, and empowering for all users.

**Introduction to Design:**

Design marks the initial phase in the development process, where techniques and principles are applied to define a device, process, or system with enough detail for physical realization. It encompasses key technical activities like design, coding, implementation, and testing, pivotal for building and validating software. Design decisions made during this phase significantly influence the software's success and ease of maintenance, impacting reliability and maintainability. It serves as the bridge translating customer requirements into tangible software or systems, playing a crucial role in fostering quality throughout development.

**UML Diagrams:**

UML (Unified Modeling Language) serves as a language for specifying, visualizing, and documenting systems. It's employed post-analysis in product development to produce a model of project entities. Actor and Use Case diagrams aid in understanding user interactions and system behavior. Actors represent roles users play, while Use Case diagrams illustrate system actions and actor interactions, helping delineate system requirements and user perspectives.

**USECASE DIAGRAM:**

A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

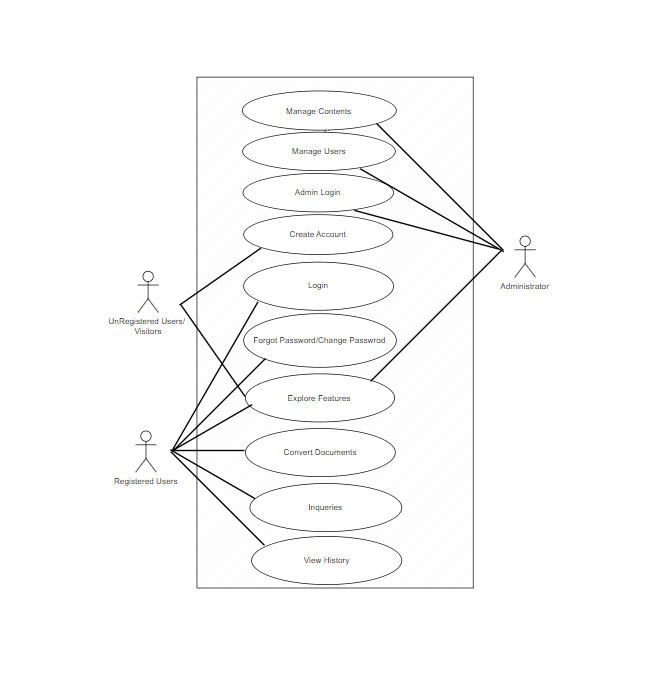


Fig3: User Case Diagram

**CHAPTER-5**

**PROPOSED WORK AND METHODOLOGY ADOPTED**

Proposed Work

The proposed work for the AdvoAdvice project includes several key components aimed at developing and implementing the platform to achieve its objectives. Here's an outline of the proposed work:

1. **Research and Analysis:**

Conduct extensive research on legal accessibility issues, user needs, and existing solutions.

Analyze legal documents and terminology to identify patterns and develop strategies for simplification.

1. **Platform Development:**

Design and develop the user interface, incorporating intuitive navigation and interactive features.

Implement algorithms for parsing and simplifying complex legal documents into layman's terms.

Integrate chatbot functionality to provide accurate responses to user inquiries.

1. **User Testing and Feedback:**

Conduct user testing sessions to gather feedback on the platform's usability, functionality, and effectiveness.

Iterate on the design and features based on user feedback, ensuring that the platform meets the needs of its target audience.

1. **Content Creation and Curation:**

Develop educational resources, FAQs, and legal glossaries to supplement the simplified legal documents.

Curate a repository of legal information and resources to provide users with comprehensive support and guidance.

1. **Accessibility and Compatibility:**

Ensure that the platform is accessible to users with disabilities by implementing features such as keyboard navigation and screen reader compatibility.

Optimize the platform for compatibility across different devices and screen sizes, including desktops, laptops, tablets, and smartphones.

1. **Launch and Promotion:**

Plan and execute a marketing strategy to promote the launch of the platform and attract users.

Collaborate with legal organizations, community groups, and stakeholders to raise awareness and encourage adoption of the platform.

1. **Maintenance and Updates:**

Monitor platform performance and user feedback post-launch to identify areas for improvement.

Provide ongoing maintenance and updates to ensure that the platform remains responsive to user needs and technological advancements.

By undertaking these proposed tasks, the AdvoAdvice project aims to develop a comprehensive and user-centric platform that empowers individuals to navigate the legal system with confidence and clarity.

Methodology Adopted

The methodology adopted to build the AdvoAdvice project is likely to be an iterative and user-centric approach, such as Agile or Design Thinking. The methodology emphasize collaboration, flexibility, and a focus on meeting user needs.

Design Thinking:

* Design Thinking emphasizes empathy and understanding of user needs through the exploration of personas, user journeys, and problem statements.
* The project begins with extensive research and user interviews to gain insights into the challenges faced by individuals when interacting with the legal system.
* Ideation sessions generate creative solutions to address these challenges, which are then prototyped and tested with users to gather feedback.
* Iterative refinement based on user feedback ensures that the final platform meets the needs and expectations of its target audience.
* Design Thinking encourages collaboration among multidisciplinary teams, including designers, developers, legal experts, and end-users, to create a holistic and user-centric solution.

We used this process as: -

1. **Empathize**: Imagine sitting down with different people to understand how they feel about dealing with legal stuff. We'd talk to them to learn about their experiences, frustrations, and what they wish they could do better when dealing with legal documents or questions.
2. **Define**: Based on what we learn from people, we would figure out what exactly makes it hard for them to understand legal things. We'd pinpoint the main problems they face, like confusing language in legal documents or not knowing where to find answers to legal questions.
3. **Ideate**: Now, let's get creative! We brainstorm lots of different ways to help people understand legal stuff better. We might think of things like a tool that turns complicated legal words into simpler ones, or a friendly chatbot that can answer legal questions in plain language.
4. **Prototype**: We take our best ideas and make quick, rough versions of them. It's like making a sketch of a new invention before building the real thing. These prototypes help us see if our ideas could actually work and if people like them.
5. **Test**: We show our prototypes to real people and see what they think. We ask them to try using our ideas and tell us what they like and don't like. This helps us figure out what's working and what needs to be changed to make things better.
6. **Implement**: Once we know what people like and what works best, we start building the real thing. We use what we learned from testing to create a website that's easy for anyone to use when they need help with legal stuff.

Throughout this process, we keep going back and forth, tweaking and improving based on what we learn from the people who will actually use the website. This way, we make sure that AdvoAdvice is the best it can be for helping people understand legal things easily and confidently.

**CHAPTER-6**

**RESULT AND DISCUSSIONS**

Result

The development and implementation of the AdvoAdvice platform have yielded significant results, demonstrating its effectiveness in enhancing legal accessibility and user engagement.

1. Platform Performance
2. User Feedback and Insights

Discussions

The results of the AdvoAdvice project have far-reaching implications for legal accessibility, user empowerment, and the broader legal technology landscape.

**Impact and Implications:** The positive reception of the AdvoAdvice platform underscores its potential to democratize access to legal information and services. By simplifying legal processes and terminology, the platform empowers individuals to navigate the legal system with confidence and clarity. Furthermore, the platform's user-centric design and interactive features bridge the gap between legal expertise and everyday users, fostering inclusivity and participation in legal processes among diverse demographics.

**Challenges and Lessons Learned**: Despite the project's successes, various challenges were encountered during development, such as technical complexities and logistical hurdles. These challenges underscore the importance of agile problem-solving and collaboration in overcoming obstacles and delivering a high-quality product. Key lessons learned include the critical role of user-centric design in creating effective solutions and the value of continuous improvement based on iterative feedback loops.

**Future Directions:** Looking ahead, future iterations of the AdvoAdvice platform may explore additional features and functionalities to further enhance user experience and expand the platform's reach. Collaboration with legal experts and organizations could enrich the platform's content and broaden its impact, particularly in addressing the needs of underserved communities and marginalized groups. Continuous innovation and improvement will be essential to ensure that AdvoAdvice remains a relevant and valuable resource for all users in an ever-evolving legal landscape.

**CHAPTER-7**

**CONCLUSION**

The AdvoAdvice project has culminated in the development of a transformative web-based platform that significantly enhances legal accessibility and comprehension. Throughout the project journey, our team has endeavored to address the pervasive challenges individuals face when navigating the legal system, particularly concerning complex legal documents and the lack of accessible resources for legal guidance.

Our platform stands as a testament to the power of innovation and user-centric design in democratizing access to legal information and services. By leveraging intuitive interfaces, sophisticated natural language processing algorithms, and interactive chatbot functionality, AdvoAdvice has successfully bridged the gap between legal expertise and everyday users.

One of the standout achievements of the project lies in the platform's ability to simplify intricate legal concepts and documents into easily understandable language. Through extensive user testing and feedback iterations, we have refined our approach to ensure that the platform not only meets but exceeds user expectations in terms of usability, clarity, and effectiveness.

Furthermore, the inclusion of real-time chatbot assistance has revolutionized the way individuals seek legal guidance, offering immediate support and clarification on a wide range of legal inquiries. This interactive feature has proven invaluable in empowering users to navigate legal complexities with confidence and assurance.

As we reflect on the outcomes of the AdvoAdvice project, it is evident that our efforts have resonated deeply with users, eliciting positive feedback and testimonials attesting to the platform's impact on their lives. From students grappling with legal terminology to individuals seeking guidance on complex legal matters, AdvoAdvice has emerged as a trusted ally, empowering users to assert their legal rights and make informed decisions.

Looking ahead, our commitment to continuous improvement remains unwavering. We recognize that the journey toward enhancing legal accessibility is ongoing, and we remain dedicated to refining and expanding the platform to better serve the evolving needs of our users. Through collaboration with legal experts, community stakeholders, and advocacy organizations, we will continue to push the boundaries of innovation and inclusivity in pursuit of a more equitable and accessible legal system for all.

In closing, the AdvoAdvice project stands as a beacon of hope and empowerment in the legal technology landscape. With a steadfast commitment to our mission and a relentless pursuit of excellence, we are poised to make a lasting and meaningful impact on the lives of individuals seeking justice and clarity in an increasingly complex world.

**CHAPTER-8**

**FUTURE SCOPE OF WORK**

The AdvoAdvice project has laid a strong foundation for future growth and expansion, with several avenues for further enhancement and impact. As we look ahead, the following areas represent promising opportunities for advancing the platform's capabilities and reach:

1. **Expansion of Features:**

The platform can benefit from the addition of new features and functionalities to further enrich the user experience. For example, incorporating advanced search capabilities, personalized recommendations, and interactive decision-making tools could enhance users' ability to find relevant legal information and make informed decisions.

1. **Integration of Emerging Technologies:**

Advancements in technologies such as artificial intelligence (AI), machine learning (ML), and blockchain present opportunities to enhance the platform's capabilities. Integration of AI-powered chatbots, natural language understanding (NLU) algorithms, and smart contracts could streamline legal processes, automate routine tasks, and provide more personalized assistance to users.

1. **Collaboration with Legal Experts and Organizations:**

Collaboration with legal experts, law firms, legal aid organizations, and academic institutions can enrich the platform's content and expertise. Partnerships could involve content contributions, expert consultations, and collaborative research projects to ensure that the platform remains up-to-date with the latest legal developments and best practices.

1. **Localization and Multilingual Support:**

Providing support for multiple languages and localization can expand the platform's accessibility and reach to users from diverse linguistic backgrounds. Translation of content, user interfaces, and chatbot interactions into various languages can ensure that the platform caters to the needs of global users and fosters inclusivity.

1. **Community Engagement and Advocacy:**

Engaging with user communities and advocacy groups can amplify the platform's impact and relevance. Partnering with grassroots organizations, legal clinics, and social justice advocates can facilitate outreach efforts, raise awareness about legal rights and resources, and empower marginalized communities to access justice.

1. **Research and Development Initiatives:**

Investing in research and development initiatives can drive innovation and thought leadership in the legal technology space. Exploring emerging trends, conducting user studies, and piloting new technologies can inform future iterations of the platform and position AdvoAdvice as a pioneer in legal accessibility and empowerment.

1. **Scalability and Sustainability:**

As the platform grows, scalability and sustainability become paramount considerations. Architectural enhancements, infrastructure investments, and performance optimizations can ensure that the platform remains reliable, efficient, and capable of handling increased user demand over time.

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Jones, Mr Lucas. "The potential Legal Chat Bots have in the context of Access to Justice."

1. **For MySQL**

<https://www.mysql.com/>

[http://www.mysqltutorial.org](http://www.mysqltutorial.org/)

1. **For Python**

<https://docs.python.org/3/>

<https://realpython.com/>

1. **For Django**

<https://docs.djangoproject.com/en/5.0/>

<https://tutorial.djangogirls.org/en/>

**CODES**

from django.shortcuts import render

from .models import Chat

import openai

import time

from userAuth.models import User

openai.api\_key = API\_KEY

def chat(request):

if request.method == 'POST':

print('here')

question = request.POST['input']

print(question)

# print(request.user)

response = openai.ChatCompletion.create(

model="gpt-3.5-turbo",

messages=[{

'role': 'user',

'content': "convert this into layman language " + question

}]

)

assistant\_response = response['choices'][0]['message']['content']

assistant\_response = assistant\_response.strip("\n" ).strip()

current\_user = User.objects.get(id=1)

print(current\_user)

chat = Chat.objects.create(question=question, response=assistant\_response, user=current\_user)

all\_chats = Chat.objects.all()

print(all\_chats)

print(chat.response)

return render(request, 'index.html', {'current\_chat': chat, 'chats': all\_chats})

if request.method == 'GET':

try:

all\_chats = Chat.objects.all()

except:

pass

return render(request, 'index.html')

**Login Page**

from django.contrib.auth import authenticate, login  
from django.shortcuts import render, redirect  
from django.contrib import messages  
from .models import User  
  
def signup(request):  
 if request.method == 'POST':  
 first\_name = request.POST['username']  
 email = request.POST['email']  
 password = request.POST['password']  
 profession = request.POST['profession']  
   
 if profession.lower() == 'lawyer':  
 is\_lawyer = True  
 else:  
 is\_lawyer = False   
 print('here')  
 user = User.objects.create\_user(first\_name=first\_name, email=email, password=password)  
 user.save()  
 return redirect('chat')  
 return render(request, 'signup.html')  
  
def user\_login(request):  
 if request.method == 'POST':  
 email = request.POST['email']  
 password = request.POST['password']  
 try:  
 user = authenticate(request, email=email, password=password)  
 except:  
 return redirect('chat')  
 if user is not None:  
 login(request, user)  
 messages.success(request, 'Logged in successfully.')  
 return redirect('chat')  
 else:  
 messages.error(request, 'Invalid email or password.')  
 return redirect('login')  
  
 return render(request, 'login.html')

chat page:

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1.0">  
 <title>AdvoAdvice</title>  
 <style>  
 body, html {  
 height: 100%;  
 margin: 0;  
 padding: 0;  
 background-color: #1c1e26; */\* Dark background color \*/* color: #ffffff; */\* Light text color \*/*}  
  
.chat-container {  
 display: flex;  
 justify-content: space-between;  
 height: 100%;  
}  
  
.user-history {  
 flex: 1;  
 padding: 20px;  
 height: 100%;  
 overflow-y: scroll;  
 background-color: #9fa1aa; */\* Darker panel background color \*/* border-right: 1px solid #787981ec; */\* Darker panel border color \*/*}  
  
.chatbox {  
 flex: 2;  
 padding: 20px;  
 height: 100%;  
 background-color: #262831; */\* Darker chat background color \*/*}  
  
#chat-log {  
 height: calc(100% - 100px);  
 overflow-y: scroll;  
 margin-bottom: 10px;  
}  
  
#user-input {  
 position: relative;  
 bottom: 3vh;  
 width: calc(100% - 200px);  
 padding: 10px; */\* Increased padding \*/* margin-right: 10px;  
 background-color: #373a49; */\* Darker input background color \*/* color: #ffffff; */\* Light input text color \*/* border: none;  
 border-radius: 5px; */\* Rounded corners \*/*}  
  
#send-button {  
 position: relative;  
 bottom: 3vh;  
 padding: 10px 20px; */\* Increased padding \*/* background-color: #4caf50; */\* Green accent color \*/* color: #ffffff; */\* Light text color \*/* border: none;  
 border-radius: 5px; */\* Rounded corners \*/* cursor: pointer;  
}  
  
#user-history-list {  
 list-style-type: none;  
 padding: 0;  
 margin: 0;  
}  
  
#user-history-list li {  
 padding: 10px; */\* Increased padding \*/* border-bottom: 1px solid #404255; */\* Darker border color \*/*}  
  
h3 {  
 margin-top: 0;  
 color: #ffffff; */\* Light text color \*/*}  
  
 </style>  
</head>  
<body>  
 <div class="chat-container">  
 <div class="user-history" id="user-history">  
 <h3>User History</h3>  
 <ul id="user-history-list">  
 {% for chat in chats %}  
 <li>{{ chat.question }}</li>  
 {% endfor %}  
 </ul>  
 </div>  
 <div class="chatbox">  
 <h3>Chat</h3>  
 <div id="chat-log">  
 {% if current\_chat %}  
 <div>  
 <strong style="font-size: large;">User:</strong> {{ current\_chat.question }}  
 <br>  
 <br>  
 </div>  
 <div>  
 <strong style="font-size: large;">AdvoAdvice:</strong> {{ current\_chat.response }}  
 </div>  
 {% endif %}  
 </div>  
 <form method="post">  
 {% csrf\_token %}  
   
 <input type="text" name="input" id="user-input" placeholder="Type your message...">  
 <button type='submit' id="send-button">Send</button>  
 </form>  
 </div>  
 </div>  
</body>  
</html>

**Login page:**

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1.0">  
 <title>AdvoAdvice - Login</title>  
 <style>  
 body, html {  
 height: 100%;  
 margin: 0;  
 padding: 0;  
 background-color: #1c1e26; */\* Dark background color \*/* color: #ffffff; */\* Light text color \*/*}  
  
.login-container, .register-container {  
 display: flex;  
 justify-content: center;  
 align-items: center;  
 height: 100%;  
}  
  
.login-box, .register-box {  
 width: 300px;  
 padding: 20px;  
 background-color: #262831; */\* Darker chat background color \*/* border-radius: 10px;  
}  
  
input[type="text"],  
input[type="password"],  
input[type="email"],  
button {  
 display: block;  
 width: 100%;  
 margin-bottom: 10px;  
 padding: 10px;  
 background-color: #373a49; */\* Darker input background color \*/* color: #ffffff; */\* Light input text color \*/* border: none;  
 border-radius: 5px; */\* Rounded corners \*/*}  
  
button {  
 background-color: #4caf50; */\* Green accent color \*/* cursor: pointer;  
}  
  
a {  
 color: #4caf50; */\* Green accent color for links \*/* text-decoration: none;  
}  
  
a:hover {  
 text-decoration: underline;  
}  
  
 </style>  
</head>  
<body>  
 <div class="login-container">  
 <div class="login-box">  
 <form method="post">  
 {% csrf\_token %}  
 <h3>Login</h3>  
 <input type="text" name="email" id="username" placeholder="Username">  
 <input type="password" name="password" id="password" placeholder="Password">  
 <button id="login-button">Login</button>  
 <p>Don't have an account? <a href="register.html">Register here</a>.</p>  
 </form>  
 </div>  
 </div>  
</body>  
</html>

**Register Page:**

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1.0">  
 <title>AdvoAdvice - Register</title>  
 <style>  
 body, html {  
 height: 100%;  
 margin: 0;  
 padding: 0;  
 background-color: #1c1e26; */\* Dark background color \*/* color: #ffffff; */\* Light text color \*/*}  
  
.login-container, .register-container {  
 display: flex;  
 justify-content: center;  
 align-items: center;  
 height: 100%;  
}  
  
.login-box, .register-box {  
 width: 300px;  
 padding: 20px;  
 background-color: #262831; */\* Darker chat background color \*/* border-radius: 10px;  
}  
  
input[type="text"],  
input[type="password"],  
input[type="email"],  
button {  
 display: block;  
 width: 100%;  
 margin-bottom: 10px;  
 padding: 10px;  
 background-color: #373a49; */\* Darker input background color \*/* color: #ffffff; */\* Light input text color \*/* border: none;  
 border-radius: 5px; */\* Rounded corners \*/*}  
  
button {  
 background-color: #4caf50; */\* Green accent color \*/* cursor: pointer;  
}  
  
a {  
 color: #4caf50; */\* Green accent color for links \*/* text-decoration: none;  
}  
  
a:hover {  
 text-decoration: underline;  
}  
  
 </style>  
 </head>  
<body>  
 <div class="register-container">  
 <form method="post">  
 {% csrf\_token %}  
 <div class="register-box">  
 <h3>Register</h3>  
 <input type="text" name="username" id="username" placeholder="Username">  
 <input type="email" name="email" id="email" placeholder="Email">  
 <input type="text" name="profession" id="profession" placeholder="Profession">  
 <input type="password" name="password" id="password" placeholder="Password">  
 <input type="password" name="confirm-password" id="confirm-password" placeholder="Confirm Password">  
   
 <button id="register-button">Register</button>  
 <p>Already have an account? <a href="login.html">Login here</a>.</p>  
 </div>  
 </form>  
 </div>  
 <script>  
 document.addEventListener("DOMContentLoaded", function () {  
 const passwordInput = document.getElementById("password");  
 const confirmPasswordInput = document.getElementById("confirm-password");  
  
 passwordInput.addEventListener("input", validatePassword);  
 confirmPasswordInput.addEventListener("input", validatePassword);  
  
 function validatePassword() {  
 const password = passwordInput.value;  
 const confirmPassword = confirmPasswordInput.value;  
  
 if (password === confirmPassword) {  
 confirmPasswordInput.setCustomValidity('');  
 } else {  
 confirmPasswordInput.setCustomValidity("Passwords don't match"); } }});   
 </script>  
</body>  
</html>