

Legal Suits – Court Case, Client Attorney App

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Abstract - As the year's passed, there has seen a drastic increase in filling up cases and searching for attorneys and advocates, not only in urban but in semi-urban and rural areas as well. People face many issues and problems some related to crime, Contracts or other disputes which led them to fill up a case or take the matter to a legal road and procedures [1]. Sending Notices, Hearing and Re-Phrasing contracts are a few of the things which have seen a drastic increase in the last few years. Thus, searching for a suitable lawyer or Advocate specialized in a particular field who could take up one case is still a strenuous task not only for rural residence but even for Urban citizens. The task of finding an advocate seems minor but requires most extreme time and human exertion, which turns out to be exceptionally important that sometimes may cost the life fortune of the few clients (people).

Hence, To solve the problem and fill the gap we have proposed – Legal Suits, an Hybrid app compatible with both IOS and Android, this app builds a bridge and fills up the gap between the Legal attorneys and Clients. In this app, Clients can post their case, review a lawyers profile and contact a lawyer, vice versa for the lawyer they can show interest in a particular case, surf through cases etc and plenty more. This can make the system easier to navigate and to use maximizing the effectiveness of time and other resources easily accessed and analyzed in a consistent way. One of the main intension of this project is to control and allow complete registration of all court cases and tracking of case current status and location, to enhance public access avoiding clients to go to court and also needs to follow up daily after filing the case. This study also considers the adoption of the case management system as an important component in the delivery of service to their clients.

Key Words: Clients, Attorney, Cases, Lawyer, Contracts.

1. INTRODUCTION

As the studies have shown and given in the reference [1][2], the people visit if not three then two times in their entire adulthood to a courthouse and indeed needs a lawyer for and at various occasions even for as simple as a Lease Proofreading task. It is regularly observed that Client needs to visit plenty of sites to find a suitable attorney, or they contact the very next attorney within their connections or reference, as they are ignorant of various choices or specialized attorney accessible to them. Plenty of sites are available to find an attorney but every platform lack one or

two things [3] that one considers and plays a vital role in the selection of a Lawyer.

In this Paper, an online Hybrid Application is Proposed, supported by both platform mobile users IOS and Android, this app builds and fills up the gap between the Legal attorneys and Clients, In this app, Clients can post their case, review a lawyers profile and contact lawyer, vice versa for a lawyer they can show interest in a particular case, surf through cases etc and plenty more. This can make the system easier to navigate and to use maximizing the effectiveness of time and other resources easily accessed and analyzed in a consistent way. The reason for choosing the online App stage is that in India, every Hybrid approach furnishes better client involvement with responsive structure. It's much simpler and less expensive to make an electronic framework easy to understand framework over numerous stages and different screen goals. As the Wide share of Users in India are Android, but also we cant neglect the IOS users, and creating two Native applications would be a deep cost. Thus Hybrid Technology (Flutter) is used to be cost-effective and supported by both Platforms.

The project aims at the following matters:

- ❖ Posting Case by Client, and looking insight that who have shown interest
- ❖ Looking into the Lawyer profile and get an overview of them, contact the suitable lawyers within clicks
- ❖ Lawyers can tailor their profile and dashboard, where they can even update their per hearing wise price breakdown and Show Case their Previous Undertaken Case portfolios
- ❖ Surfing through cases filtering among them and showing their keen interest, where for users, they can surf through lawyers, filter among them and contact the best-suited attorney for them. In terms of specialization, Cost and Previous Case history.
- Product Scope description

This is a complete Hybrid Based app that is developed using Flutter and backend supported by Api's and Firebase. Can be accessed from any place around the world through the internet

We examined some significant papers in Section II. In Section III we depicted various levelled charts clarifying the framework usefulness with framework design. We demonstrated a Use Case graph centring on the client's collaboration with the framework. Lastly, in Section IV we finish up our paper and Section V contains Future Scope for the advancement of our framework.

2. LITERATURE SURVEY:

1. The Reference[1] by Supreme Court Statistic up to the year 2019 states that there has been a drastic increase in filling up cases and searching for attorneys and advocates, not only in urban but in semi-urban and rural areas as well. People face many issues and problems some related to crime, Contract or other disputes which led them to fill up a case or taking the matter to a legal road and procedures [1].

2. In the research, we have found and given in the reference by National Judicial Data Grid (District and Taluka Courts of India) [2] that the people visits if not three then two times in his entire adulthood to a courthouse and indeed needs a lawyer for and at various occasions even for as simple as a Lease Proofreading task. It is regularly observed that the Client needs to visit plenty of sites to find a suitable attorney, or they contact the very next attorney within their connections or reference, as he is ignorant of various choices or specialized attorneys accessible to him, Along with the statistics of various section cases.

3. We have Surfed and Referred to various Platforms given in the reference [3], being inspired by them and tackling and improvising the area where they lack we have created and designed our system.

a. [4] It is a Web app, the proposed system is to Manage the Lawsuits manages cases, legal matters, client relationships and teamwork. It empowers one and/or his team to be even more efficient, saves you a lot of time, and enhances team collaboration as well as client and advocate relationships.

b. [5] The existing system is a Web app, where the power is in both the client's and the lawyer's hands. You can set a budget for what you want your lawyer to work to, or you can enter negotiations with lawyers to get the best deal for the problem. So whether you are looking for the best lawyer in the field or the best lawyer you can afford, The Law App Online is the complete legal marketplace to get great value from professionally accredited lawyers [5]

c. [6] The app is designed with the aim to aid and assist the Lawyers' fraternity in their daily practice of law, and with the further objective to simplify and facilitate the deliverance of Justice, and to spread legal literacy among the people of India.

It is kind of a Legal Reference wherein the pressing and common issues of our society have been identified, with all

probable legal remedies which may be pursued, are suggested therein, along with the procedure to prosecute the remedy. [6]

d. Proposed was a Native App platform where you can search top lawyers of your city and of all over the country. Users can raise a query and receive legal advice and help from the best advocates, lawyers, vakil and attorneys. [7] will also work as a Law Dictionary of Kanoon. Apart from being useful for users to search for Advocates and seeking legal help, this application serves as an attractive marketing platform for lawyers.

4. The author[8] have explained in depth about the troublesome procedure for both client and attorney, and how much both of them thrive struggles to find each other and the path they walk down to, from the authors article we could understand the depth of the problem and what all key elements need to be considered for a platform which could help both Attorneys and Clients.

5. The Reference [12] is the E-court Management system which was adopted by the Supreme court of Korea, and thus gives a glimpse that how much a Management System could help to ease the process and how drastic of a decline one can see in efforts and physical work.

6. The Author in reference [9] Proposes a Management System for students, which he proposed Through this system, the standardized management, scientific statistics and fast query of student information can be realized, and thus the workload of management can be reduced. From this we could take the inspiration and generate a flow similar to the Management and students for Attorney and client.

7. It is an Electronic Court Management System Proposed by the Author which is considered as a reference [10], where they proposed an electronic Court Case Management System (eCCMS) which is developed to make the functional areas in Judicial Service more efficiency and effective. One of the main intension of it is to control and allow complete registration of all court cases and tracking of case current status and location; to enhance public access avoiding client to go to court and also needs to follow up daily after filing of case justice has become an important issue in many justice systems around the world. Increasingly, technology is seen as a potential facilitator of accesstojustice, particularlyin terms of improving justice sect or efficiency. (Giampiero Lupo, 2014) The majorfunctionaliti es covered in court works are registration, indexing and follow up of cases. Case management is the key success factor in judicial system.

3. IMPLEMENTATION OF OUR SYSTEM:

Here is a short diagram of our framework where we can without much of a stretch see that how our framework has a tremendous effect when such a crisis circumstance emerges

and how it helps the client to avoid all the tedious task and long procedure to find a suitable attorney for his cause, In this module we are going to discuss some topics which are System Architecture and also to give you the overview of our Hybrid-Technology based App (System) which is given as follows.

Normal Procedure (Tedious Task of finding an Attorney):

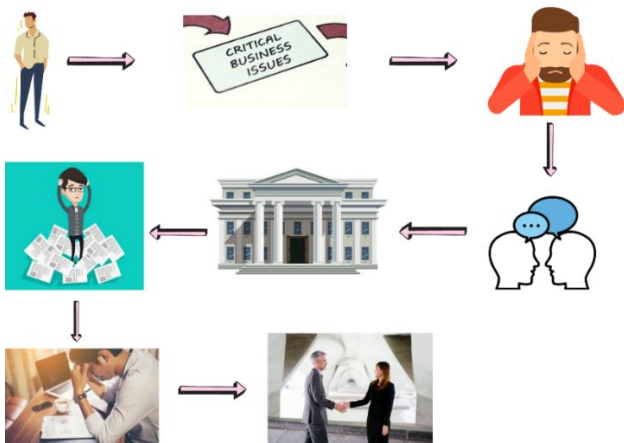


Fig -1: Normal Procedure

Our Platform :

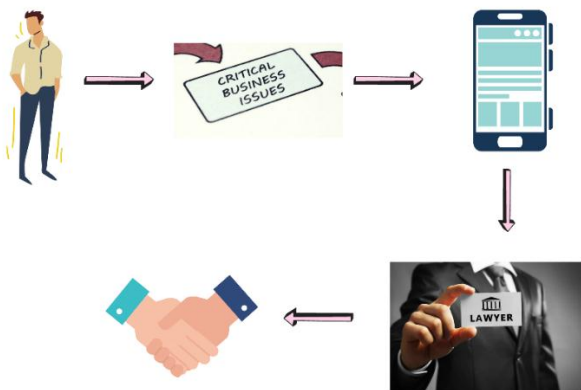


Fig -2: Our Platform

3.1 System Architecture:

The system is composed of three modules: User (Client), Attorney and Administrator. The Administrator section is for Monitoring the no. of users and keeping a track of the system, allowing and monitoring activities of the users and their updation is valid or not. The application requires internet connection for updating data and Creating account, interacting with a post, downloading and uploading of the file. The application uses a Three Tier architecture system which consists of a server, three types of members and a centralized database. The system architecture is showing Figure

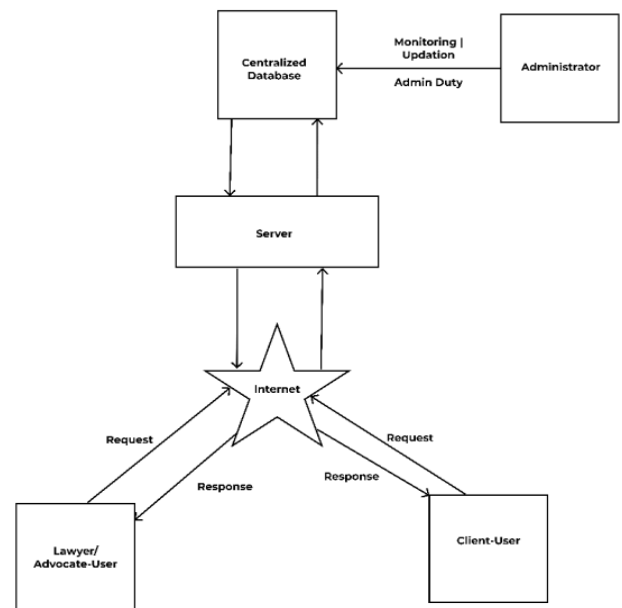


Fig -3: System Architecture

3.1 Application and Technology Stack :

Flutter is a Hybrid technology supported and compatible to both IOS and Android. The flutter compiler compiles the codes into the supported output file supported to IOS and Android. Flutter was founded by google a revolutionary language which helps you to code applications for two different platforms in one time. Our App is entirely based on this Hybrid technology, in which we have synced and develop two sides (Dashboard) in the apps one for the client (User) other for the Lawyer attorney, where each user side has their different sets of functionality and features.

The next level down are the APIs which accepts the Json form requests from the application and Renders it and sends the request to the Server, where the server fulfils the task and provide the optimum output which is again sent as a response to the api which gets rendered and provided to the app as Json Response. Response is nothing but the asked output to the requested task.

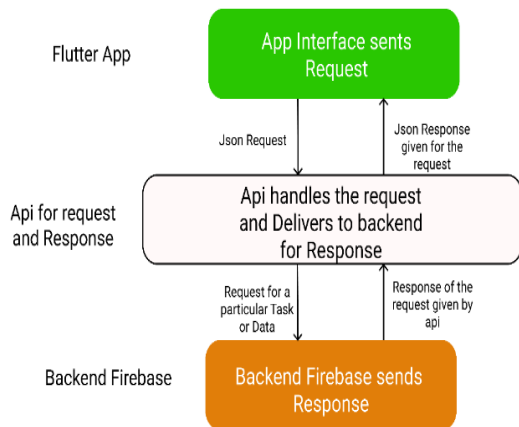


Fig -4: Technology Stack

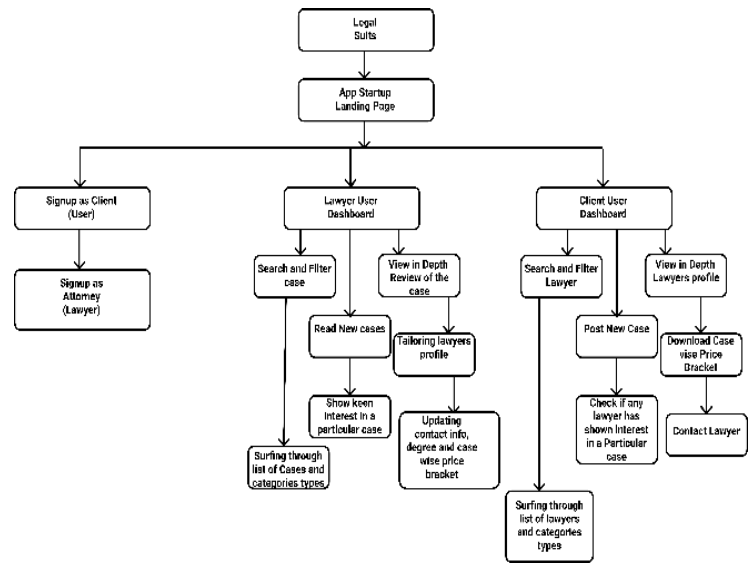


Fig -5: Information Architecture

Brief Overview about the system:

Court management app that has facility to record information like searching case wise lawyer, adding lawyers (have facility select from existing list of lawyers), Download invoice for each hearing and for different heads under which lawyers charge the clients. In short, Lawyer can sign up and create account Lawyer dashboard can update price sheet, read contacts and update cases they have undertaken User can login and signup, search and filter lawyers Visit their page and see the list of cases they have taken prior, for costing they can download an invoice or price sheet where different heads would be mentioned under which lawyer charges and contact lawyer option Client Home Search Lawyer post case See who have shown interest in the case contact lawyer.

Login Screen

During Login procedure we will ask the member to enter his/her username, password and it will be verified with the entry present in the database and based on the member type present we will display them their respective landing page of the application.

Signup Screen

If the user doesn't exist or wants to create a new account they could surf to the signup page, where user can select the type of member he wants to signup for, attorney or as a client and has to fillup the essential fields like username, password, contact info etc.

The hierarchical system is shown in Figure 5. For futher screen hierarchy

CLASSIFICATION OF LAWYERS:

The legal field is extremely large and complex, and you'll find that many specialize in a particular area of law. Cases posted by the client will be assigned to the lawyer, who's capable of handling the client's legal properly. Our project classifies the lawyer depending on the specialization documents and occupation specific details collected from the lawyer's registration portal.

ADD A CLIENT'S CASE:

Incorporating this application into a daily routine, a lawyer can easily manage client details, contact details, case portfolio. The lawyer can add new clients, who have submitted their legal documents and case related papers to the lawyer. This will be visible and transparent. The fee charged for the case will be visible on the portal page of both the client and the lawyer. This process further helps to reduce corruption at law firms and at court places.

CLIENT DATABASE:

All the details of registered clients will be added into a database. Using the client database, status of the cases, pending client cases, all client-lawyer activities can be tracked.

LAWYER DATABASE:

Database of lawyers, which includes their classification, their best cases, their fees will be stored in the database. Also, their current cases, their current client details, their current case position is stored. The lawyer's office address. Contact number, email ID, etc., is also stored.

USERFLOW :

As the Client has registered himself on the platform he could surf through all the lawyers who have registered with the app and filter through them as per the budget, specialization and category. Apart from this Client can Post their case as a potential work and track which lawyers have shown interest in that case, contact a lawyer from them, or can see the history of cases he has previously posted. To have a deep insight about an Attorney-client could visit the attorney's profile and read about his overview, download his Price break sheet and Cases Portfolio or contact him.

As per the user journey of the Lawyer/Attorney who has signed up and registered with the app could surf through Potential Cases by Registered client-side users and filter through them as newly added and old cases. Users can select a Particular case which fancies them and get a brief overview about it, also can show interest in that particular case, there are other sections as well like reading the contact and uploading their portfolio or price break-sheet etc. Fig 6 speaks to the Use-Case Diagram of our Framework

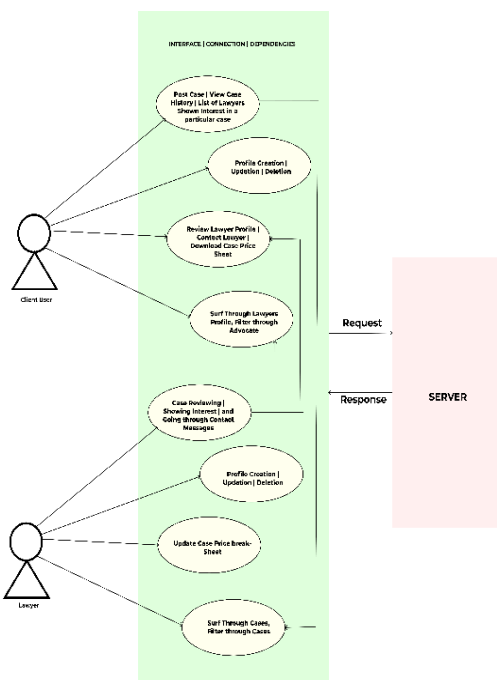


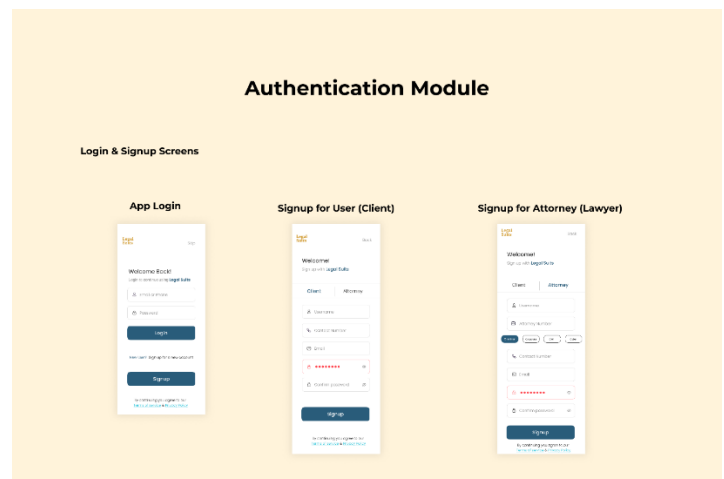
Fig -6: Userflow Diagram

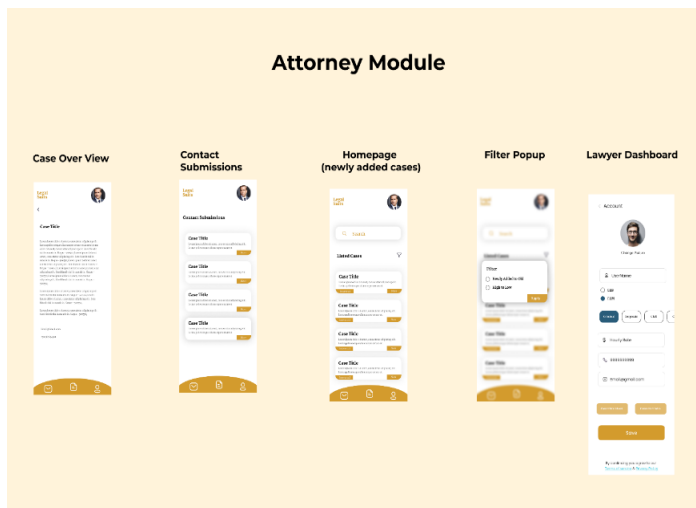
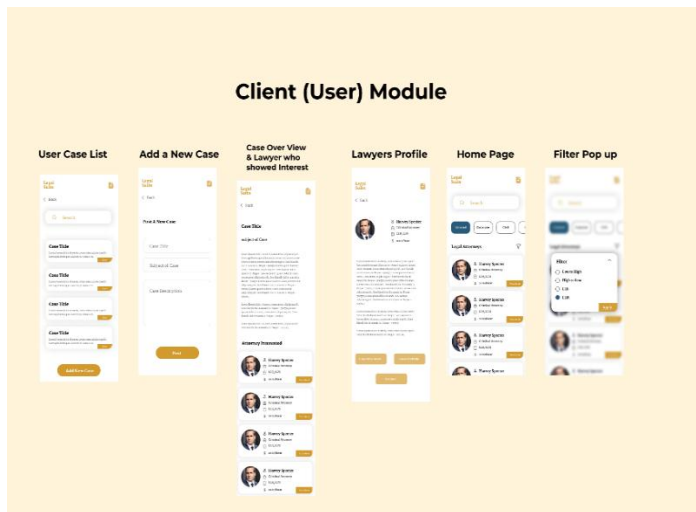
4.Methodology:

The nature of the project recommended the agile model of System Development Life Cycle(SDLC). The agile model process starts with a simple implementation of a subset of the software requirements and iteratively enhances the evolving versions until the full system is implemented. The agile methodology gives the need to develop a system based on the requirements of the users, and enable to addition of various units of the system pertaining to the various

feedbacks received from the users. At each iteration and increment, design modifications are made and new functional capabilities are added. And the phases include Identifying Problems, Opportunities and Objectives, Determine Human Information Requirements, Analyzing System Needs, Designing the Recommended System, Developing and Documenting Software, Testing and Maintenance of the system. Observation at the Supreme Court and The Law Court Complex showed that the Court had traditional ways of managing administrative tasks, such as case registrations, viewing the case list (Cause list) to the public and scheduling of cases. The courts sometimes struggle with tracking cases since their system is a desktop-based system. This problem presented itself as an opportunity that can be built upon. The public sometimes complains they had to come far away from their destination to check when a case will be held and the courtroom. People visiting the first time get frustrated since he will pass through many processes sometimes wait for long to know the time a case will be held. Obtaining this information a system will be designed that will meet the requirement of all the users both the Domain users and the public. In the design phase, every user interface will be designed for each section of the web application. Each user interface will be designed based on the principles of the User Experience from the feedback they give after each iteration. The 21st century has witnessed so many great inventions in science and technology that have led with great potential to solve existing problems.

Sample Screen Shots :





5. CONCLUSIONS

Our Proposed Hybrid App helps the Client (user) to be able to find an appropriate attorney for his/her legal work and cut down the tedious task and long procedure of finding an appropriate lawyer. The Proposed system helps to get all insight about an attorney and their specialization before making any decisions, whereas for the Lawyers, the app helps them to get more exposure to a variety of users and helps them too to pick a case or contact user which they seem to have a right fit with.

As the year's passed, there has seen a drastic increase in filling up cases and searching for attorneys and advocates, not only in urban but in semi-urban and rural areas as well. People face many issues and problems some related to crime, Contracts or other disputes which led them to fill up a case or take the matter to a legal road and procedures [1]. Sending Notices, Hearing and Re-Phrasing contracts are a few of the things which have seen a drastic increase in the last few years. Thus searching for a suitable lawyer or Advocate specialized in a particular field who could take up

one case is still a strenuous task not only for rural residence but even for Urban citizens. The task of finding an advocate seems minor but requires most extreme time and human exertion and now and then turns out to be exceptionally important that sometimes may cost the life fortune of the few clients (people).

Our Major goal is to build a bridge between the client and Advocate and ease the procedure of finding the right attorney and help not only the urban but also the rural users to get all insights before finalizing a lawyer, where for the lawyers the goal is to help them get more cases and work which they seem to have interest and the right fit for them. As Right of being represented through a counsel or lawyer is considered or referable to a fundamental right[6] but many people in today's world are still blind to it.

6. FUTURE WORK

There is part more work to be done before utilizing this application and publishing it to the users. To improve the framework usefulness, we can add more highlights to the application wherein we can include one more part type that is Right Library, as the statistic shows that there are almost 43% of the adults who are still unaware of their basic rights [7], so a Library containing all the needful information creating awareness and providing useful content to the user and making them aware of their rights

The Platform would be multi-lingual as their a huge communication gap and the language barrier for Rural users and state different languages, thus the information and the app should be in the various native languages or the content should be converted as per the location and major speaking language of that location, tackling the problem of a language barrier so all user could easily understand the information and content of the platform

Additionally, Introducing the Live chat module [7] after confirming the case or lawyer, tackling a problem that is to create a new feature in the System for a complainant who cannot visit his/her lawyer regularly or is unable to go out due to fear of his/her life. Thanks to this research, a new module could be established to make a bridge between a complainant and his/her lawyer. Everything is done automatically after necessary data is entered into the application. So, costs are reduced and the wasting of time is diminished. Also, we would like to add the interface to schedule Client and Lawyer's appointments [8] as given in the mentioned reference paper for making the appointment process very convenient for both sides of the users.

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