Law Space for Advocate: An Android App

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Abstract—**Smartphones are steadily gaining popularity with an estimated 2.5 billion mobile device users by 2017.With the advancement of technology, creation of new android based application plays an important role in making common man life easy and smart. A number of Android applications are developing in the market by a rapid rate. Managing common man task in various fields like entertainment, lifestyle, business, social, games etc. with these applications is today's demand. Motivated with this, a free Android app named Law Space for Advocate is proposed and developed in this paper for advocates to help them in maintaining the records of the cases on day to day basis with the details of the nature of the proceedings conducted on a particular day. Common man can use this App to search for advocate that help common people to find advocate for their case. Advocate intern management about their cases is an additional feature incorporated in the app. Today hardware is getting better and the performance is very high than the actual requirements of the software configuration. Phone's features are more dependent on software or application. This paper describes development of Android mobile platform application for advocate. Mobile applications gives users a reliable user experience. Android is Linux based an open-source mobile phone operating system. Android app is developed using java programming language. Set of application programming interfaces (APIs) are provided by Android SDK. Android Studio Platform uses API's to create applications.**

Index Terms— **Android, application framework, Android SDK, Android Studio, Android Application, Modules.**

I. INTRODUCTION

Our Software is very useful for Managing the daily cases diary for Lawyers/ Advocates. This software store information about an advocate's clients, opponents, cases no., Previous Date, Current Date, Next Date, court name. User can filter the data by case no, Parties, next date etc. This software is very easy to operate and light on system tool for maintenance of information about Clients, Cases, Hearings, Rulings, Accounts, books, periodicals etc. In this Law Space for Advocate App Client makes enquiry to the intern of the Case Details and appointments. After that intern checks for the availability of the dates. If dates are available, then the information related to meetings and court is gathered and fixed. Also client's information can be changed by intern if necessary. Day-to-day activity and building a comprehensive client/case/matter database is managed by this software and also history that can help improve aspect of you practice. You will get immediate access for case status and information, document management, calendaring and contact management. Provision of many reports is also made for quick reference. It provides information about daily scheduled tasks. Software is dedicated to advocates/ lawyers and interns to help them in maintaining their offices.

Google developed a mobile operating system called Android in September 23 2001. An Android app runs on the Android platform. Android Applications are fully based on java programming language using the Android Software development kit (SDK) which consists of a comprehensive set of development tools. In March 2018, the Google Play store consists over three and half million Android applications published, and over 100 billion applications downloaded worldwide. With the passage of time, various versions of android like Froyo, Gingerbread, Ice Cream Sandwich, Jellybean, KitKat, Lollipop, Marshmallow, Nought, Oreo and the latest one is Android P are introduced in the market with new one overcoming the bugs and shortcomings of previous version. There were about 3 billion smartphones in India in 2018 out of which, nearly 90% are android based. Law is a system of rules that helps to manage politics, economics and society in a number of ways. Our constitution has provided certain fundamental Rights for every advocate as well as for their interns to manage their work. Usually advocate hire interns for maintaining their regular case details and past history, but maintaining a manual diary may not be as effective with today's advance technologies. Thus, incorporation of technology such as android app in this field can be of great use to advocate, intern as well as common men. It will also be more secure and speedy. Therefore, an android application is proposed in this paper to incorporate technology in the field of Law space for advocates and common man. This android application will play a key role in providing a simple, systematic and speedier life to the advocates. This will help the advocates in raising their standards of working and in providing a better service to their clients while saving their time and resources. The proposed app will provide all information regarding day-to-day cases, client's personal information, completed and ongoing cases. Searching, notifications, setting reminder are other features that will enhance the importance of this app for advocates. The objective of the app also focuses in resolving the problem of advocate and intern to manage their workspace.

II. LITERATURE SURVEY

Sr No	Author, Title and Journal Name	Advantages	Disadvantage	Refer Points
1	Advocate Diary Case Management Free	1. Weekly or Monthly remainder on email. 2. Multiple website support. 3. Offline application functionality.	1. High cost for pro version.	Features Vs Cost
2	Advocate's Diary	1. Just a Diary for content management.	1. Installation charges 300 Rs Per Year	Features Vs Cost
3	Advocate Diary	1. News for various fields	1. No Case Management	News App
4	Hein Online	1. Library introduced. 2. Can see data in pdf	1. Only used as library.	Library is Introduced.
5	Legal Edge	1. News App	1. Only news no management of data	News schemas introduced

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III. SOFTWARE REQUIREMENT SPECIFICATION

User Classes and Characteristics

To design products that satisfy their target users, a deeper understanding is needed of their user components and product properties in development associated with unexpected issues that the user's faces every now and then while developing a project. The study will lead to an interaction model that provides an analysis of the interaction between user characters and the classes. It reveals both positive and negative patterns in text documents as higher level features and deploys them over low-level features (terms). In recommended work is designed to implement above software requirement. To implement this model following software requirements and hardware requirements are used.

Software Requirements

- Operating System   -   Microsoft Windows 7 & Above (x86/x64)
- Programming Language   -   Java/PHP
- Software Version   -   JDK 7 & above
- Tools   -   Android Studio 3.1.2
- Front End   -   JAVA
- Database   -   MySQL

Hardware Requirements

- Processor   -   Core i3 & Above
- Speed   -   2.0 GHz Min
- RAM   -   4 GB (min) 8GB Recommended
- Hard Disk   -   20GB
- Keyboard   -   Standard Keyboard
- Mouse   -   Two or Three Button Mouse
- Monitor   -   LED Monitor with Min Resolution: 1280*800
- Mobile Phone   -   Android Smart Phone having OS 4.4 & Above

IV. PROPOSED SYSTEM

An Android app named LAW SPACE FOR ADVOCATE is developed and presented in this paper for helping advocates in maintaining the records and managing interns. Using this app advocate can access case related data anywhere and anytime. This is feature of mobility. Assigning work to intern and client searches advocate are additional features of this app.

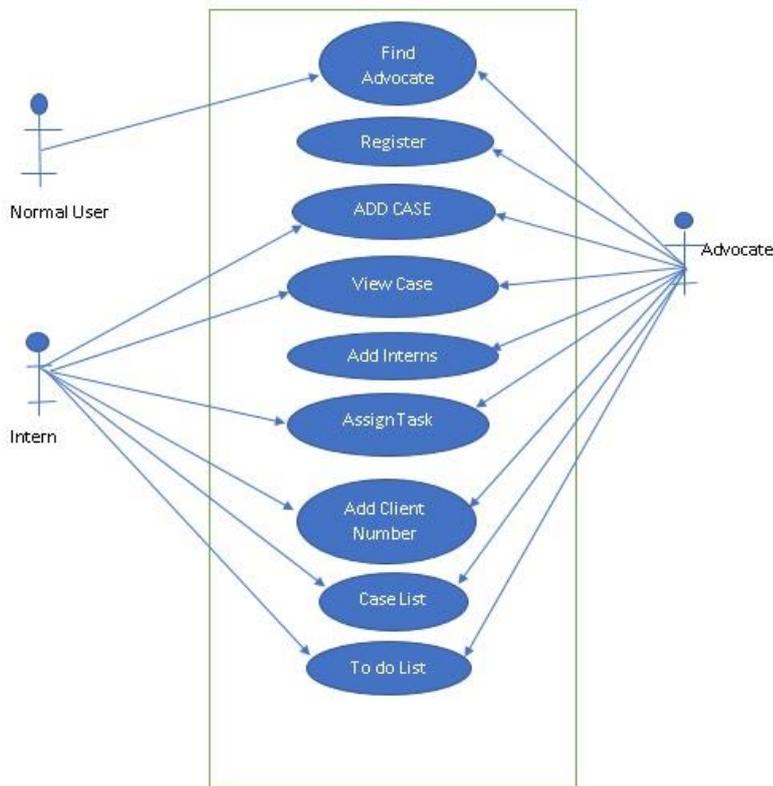Following use case diagram will show features of a system:

Fig.1: Use Case Diagram

V. MODULAR DIVISION OF APPLICATION

The project is basically divided into following modules:

Registration- A new user need to register by filling registration form.
Add a Case Module- An advocate can add new case details in the app like Name of Client, Mobile No., Email, Address, Case Name, Case Details, Case Category, Date.

All Cases Module- The all cases provide all the cases added by advocate.

Search a Case Module- An advocate can search and get entire details for the case added by him in the past by court wise, case type wise, etc.

Today's Case-On home page it shows todays case and also gives remainder in notification.

Assign Task-Advocate assigns work to intern like handle pune case, collect documents, etc. Intern after completing work strikes work so that advocate will know that work is done.

Search Advocate-Normal user can search advocates details for their case so they can contact them.

Priority Case-Advocate marks case as important or not.

VI. CONCLUSION

Automation is the big factor of our system. It reduces the work load of the advocate & intern of the system & also helps them to increase the profit margin of the Advocate. Thus, the 'LAW SPACE FOR ADVOCATE' is an effective & efficient system fulfilling the needs required by any customer.

VII. ACKNOWLEDGMENT

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