

Document

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Supervisor Signature

A handwritten signature in black ink, appearing to read "SRifwan".

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CHAPTER 1

INTRODUCTION

Introduction:

The aim of this project is to provide an online platform where everyone will be able to file the case. This is a very unique kind of project and there is a need for this type of project as well because there are a lot of difficulties and problems in manual (current) case filing system. And manual case filing system takes a lot of time too.

There is no such platform through which we can file the Case online, so in order to get rid of all problems and difficulties in manual (current) case filing system, we have developed an Online Case Filing System which enables the users to file the case at their comfort zones. Not only filing the case online, the case filer/litigant will get the case related information online through his/her account, information like date of hearing and decision of the case. Not only getting the online information about case, the case filter will also be able to hire the lawyer through our system by selecting fees range, rating of the lawyer and the case specialty of the lawyer. We can also generate the report about the progress of the court on the basis of how many cases are filed/pending/decided/instituted/unmarked.

Brief:

Online Case Filing system is a web based project which is developed to provide the facility of online case filing to the users. There is no such system that is providing such facilities. So we have developed this system to help the people in this regard.

¹⁸ In order to file the case in the system, firstly the user will sign up. When the user will click on "Register" for sign-up, system will send the sign-up request to the Admin for approval. If the Admin rejects the sign-up, the case filer will not be able to log-in. After accepting the sign-up request by the Admin, the case filer can login to his/her account. After login, the user will be able to file the case. The user will first add the two parties and then the user will add the category of the case ((e.g. Criminal case/Civil Case or both) and then the user will provide his/her personal information and after that the user will upload the case documents in the form of pdf and will submit the case. After filing the Case, the user needs to first hire the lawyer. The system will send the request of hiring to the lawyer, and after the request of hiring accepted by the lawyer, the case will now go straight to the District and Session Judge(D&SJ). Now it will be up to the District and Session Judge that does D&SJ keeps the case himself or transfer the case to one of his sub-ordinate judge (i.e. AD&SJ/SCJ/CJ) If the D&SJ will want to send the case to a sub-ordinate judge, the system will allow and send this case to the sub-ordinate judge. When the D&SJ will mark the case, email will be sent by the system to the marked judge and the litigant. After this, the case hearing judge will see the filed case and then will add the date of case hearing against the filed case and this case hearing date will be visible to case filer and his/her lawyer as well, when they will log-in to their accounts. When the Case hearing judge will want to add the decision of the case, system will allow the judge and decision of the case will be visible to the litigant and his/her lawyer as well, when they will log-in to their accounts.

Through “Online Case Filing System”, the progress of the session court (i.e. number of filed/pending/decided/instituted/unmarked cases) can be checked by generating the report. This report can be generated by selecting the report type.

Another functionality is that our project will provide is the hiring of lawyers. Through our system the case filer will be able to hire the lawyer by selecting the fees range, rating of the lawyer and the case specialty of the lawyer

Objectives:

Online Case Filing system is a web based system developed by using the Html, CSS and C# languages. It has the following goals:

- 1.** First of all to give facility to anyone that they can file the case online.
- 2.** Secondly to save everyone’s time by applying for the case online instead of going to the courts physically and face a lot of disgrace and waste a lot of time.
- 3.** Thirdly to provide the facility of hiring the lawyer by selecting the fees range, rating of the lawyer and the case specialty of the lawyer
- 4.** Fourthly to provide such kind of online portal in which for filing any case, no one need to go to the courts but they will be able to submit their case related documents easily in the form of pdf and can also get rid of the paper work.
- 5.** Fifthly to make such kind of online system in which a person who will file the case will get the case related information/updates online.
- 6.** Lastly to keep track of the progress of the court on the basis of how many cases are filed/pending/decided/instituted/unmarked by selecting the month.

Relevance to course modules:

Web Technologies: In the course of Web Technologies, we have studied about the Html and CSS languages that will us in the designing of this project.

Report Writing Skills: This course is about learning how to write reports and other formal documentation and in our project we need to write our documentation so this course is helping a lot in this project.

Visual Programming: In the course of Visual Programming, we have studied the C# language that will help us in the development of the project.

Human-Computer Interaction: An interactive system is easy and comfortable for the user to use the system and understand it easily and this course is all about designing an interacting system following standard rules.

Project Background:

The main idea behind this project is that the current process of case filing is very time taking and very disgraceful and a lot of time is being wasted in the physical involvement of case filing and also it is a difficult job to find and hire the lawyer. And there is a lot of paper work required in hard form for case filing and sometimes when someone submits the case documents in the court, those documents get lost/missed intentionally or unintentionally by the court and then we have to submit them again. And also that there is no such mechanism through which the case filer can get the information about his/her filed case like the date of case hearing and decision of the case.

So there was a need for such a system through which we can file the case easily and can find and hire the lawyer by selecting fees range, rating of the lawyer and the case specialty of the lawyer and can get rid of the paper work and through which we can upload the case documents and can check the case related information/updates online and check of the progress of the court by generating the report.

Literature Review:

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A literature review surveys books, scholarly articles, and any other sources relevant to a particular issue, area of research, or theory, and by so doing, provides a description, summary, and critical evaluation of these works in relation to the research problem being investigated. In literature review we make a comparison of our project with the existing projects and compare the pros and cons of existing projects with our project.

So we have done a lot of research on Online Case Filings Systems of the world and it turns out that the online case filing system is only fully operational in UK, which is called E-Filing. After understanding E-Filing, it was discovered that it lacked something's.

First of all, E-Filing does not provide the facility of hiring the lawyer but our Online Case Filing System provides the facility of hiring lawyer to the users. A good lawyer is needed to win a case so through our system, the user can hire the best lawyer by selecting fees range, rating of the lawyer and the case specialty of the lawyer

Secondly E-Filing does not have case transferring facility but in Online Case Filing System when the District and Session Judge of a court receives a new case and if the District and Session Judge does not want to keep the case and wants to transfer it to his/her subordinate judge (i.e. AD&SJ/SCJ/CJ), the system allows the District and Session Judge to transfer the case.

Methodology and Software Lifecycle:

We use the iterative approach to develop this application. The iterative method is a way to breakdown the development process into small patches so that instead of developing the whole software at once which is difficult to develop, we develop in small steps.

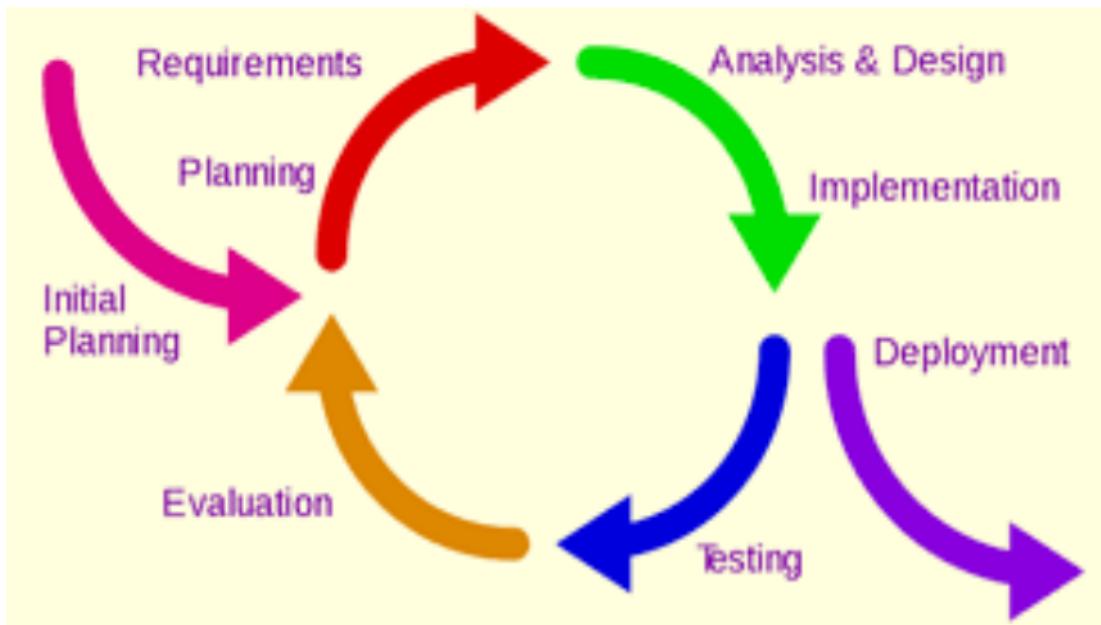


Figure 1.1 Iterative Model

The rationale behind the selected methodology:

The iterative process is the way to breakdown the whole process into smaller chunks in order to develop the complete software in one go. The reason behind this approach is that it is easily measurable and small chunks are easy to test and debug as compare to developing the whole software and then testing it, at this point debugging becomes difficult.

CHAPTER 2

PROBLEM DEFINITION

Problem Statement:

Everyone has to go to the court at some point in their lives for case filing. So while filing the case they face a lot of difficulties like:

- There is no such platform through which the users can file the cases online at their comfort zones.
- There is no such platform through which the case filer can get the case related information like the date of the case hearing and decision of the case.
- When a person/lawyer submits the case documents in the court, sometimes those documents get lost/missed by the court intentionally or unintentionally and then we have to submit them again. This process takes a lot of extra time and effort.
- There is no such system through which the user can file the case any time or any day means there is no time constraint of day or time (like in normal circumstances we cannot file case in weekends or after the office timings).
- When anyone or his/her lawyer file the case by going physically to the courts it takes a lot of time because firstly the lawyer will complete the documents in hard form that will be necessary for the case and then he/she will go to the courts and submit the documents and after that the judge will read the documents and then will give the date for the case hearing.
- Whole world is going towards the use of paper lesser and lesser because due to the high usage of paper, our environment is damaging badly. And in our manual(current) case filing system, a lot of paper work is required.
- Finding and hiring the best lawyer manually is another difficult task.

Deliverables and Development Requirements:

Following is the list of deliverables of our project:

- Admin
- Case filer's/litigant's
- Lawyers
- Judges
- Hire lawyers
- Case filing system
- Case transferring system
- Email Notifications
- Updates of filed case's
- Generate progress reports

Development requirements include the following software requirements:

- IDE: Visual Studio, SQL Server
- Database: MySQL
- Programming Languages: Html, CSS, C#

CHAPTER 3

REQUIREMENT ANALYSIS

Requirement Analysis:

Software Requirement Analysis (SRS) is not an ordinary document because it provides a basic understanding of functional as well as non-functional requirements. We can consider it as the starting point of the project because it serves as a written contract between the client and organization about the features and the functionalities of the project. With the help of SRS, both the clients and organizations make clear to each other about the deliverable project.

Functional Requirements:

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Functional requirements are the description of the service that the software must offer. It describes a software system or its component. A function is nothing but inputs to the software system, its behavior, and outputs. It can be a calculation, data manipulation, business process, user interaction, or any other specific functionality which defines what function a system is likely to perform.

Functional requirements of our project are as follows:

1. Filing the Case:

Case filing system provides the functionality of case filing to the users. For filing the case the user needs to first get registered with our system and then login to his/her account and then the user will be able to file the case. For Case filing, the user needs to add the two parties and then the case category like Criminal case/Civil case/both and then the case filer needs to provide his/her information and then at the end, the case filer needs to upload the documents in the form of pdf.

2. Getting Updates:

Once the user successfully files the case, the user must get all the case related information like the information of the date of case hearing and decision of the case. The user will be able to get the above information through his/her dashboard that can be seen after logging in to his/her account.

3. Lawyers Hiring:

Our project “Online Case Filing System” also provides functionality of hiring the lawyers to the users by selecting by selecting fees range, rating of the lawyer and the case specialty of the lawyer.

4. Generating the report:

Admin can generate the report about the progress of the court by selecting the report type i.e. pending/filed/decided/instituted/unmarked and then the Admin can print the list in pdf/excel or copy the list to clipboard

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Non Functional Requirements:

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The non-functional requirements describe how the system should work. It also specifies the quality attribute of a software system. They judge the software system based on Responsiveness, Usability, Security, Portability and other non-functional standards that are critical to the success of the software system.

Following are the non-functional requirements of our project:

Performance:

Performance describes the efficiency of the system. Our project will be very good in performance like it will file the case in a short period of time and then the case will be sent to concerned judges quickly.

Portability:

Portability means that the user must not be restricted to use the application in a specific area/place. Our web application is very portable because it allows the users to use it everywhere.

Usability:

Usability means that the application should be easy to use. The user should not feel any difficulty in using this system. In our project of “Online Case Filing System”, it is very easy for the user to file the case and check the case updates and there is nothing difficult in it.

Compatibility:

Compatibility is described as the user can use the application in all the devices and it must not be restricted to some specific devices. Our web project is very compatible with all the devices and it can run on every browser.

Security:

Security is one of the most important factors in the project that must not be compromised at any cost. In our project all the data is safe and secured. All the information that a user gives is completely secured.

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CHAPTER 4

DESIGN ARCHITECTURE

Project Design:

Project design is an early phase of the project where a project's key features, structure, criteria for success, and major deliverables are all planned out. The point is to develop one or more designs which can be used to achieve the desired project goals. The project design phase might generate a variety of different outputs, including sketches, flowcharts etc.

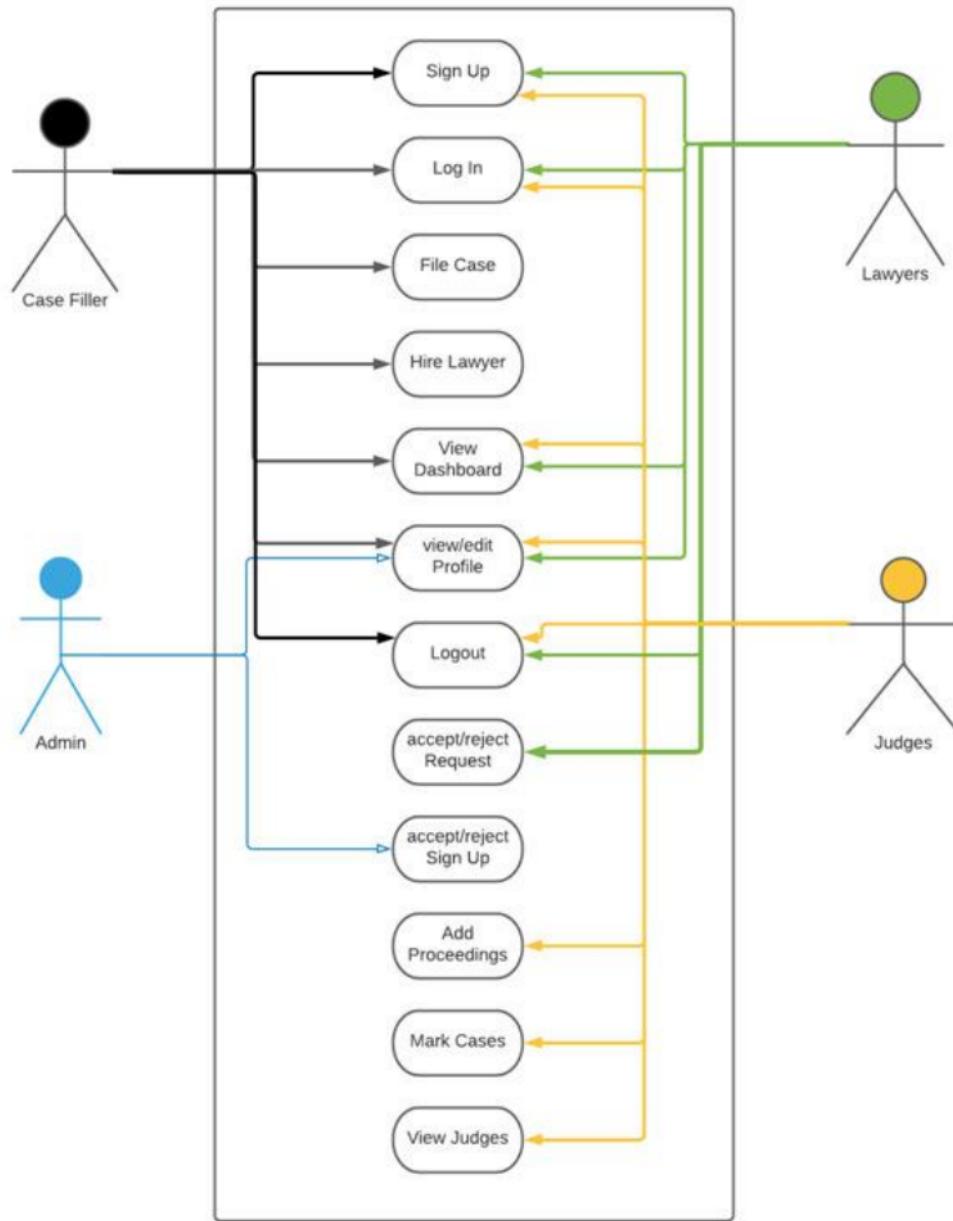
- Use Case Diagram
- Activity Diagrams
- Context Diagram

4

Use Case Diagram:

A use case diagram is a way to summarize details of a system and the users within that system. It is generally shown as a graphic depiction of interactions among different elements in a system. Use case diagrams will specify the events in a system that how those events flow.

Use Case Diagram: -



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Figure 4.1 Use Case Diagram

Activity Diagrams:

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Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The control flow is drawn from one operation to another. This flow can be sequential, branched, or concurrent. Activity diagrams deal with all type of flow control by using different elements such as fork, join, etc.

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Activity diagram of Case Filer: -

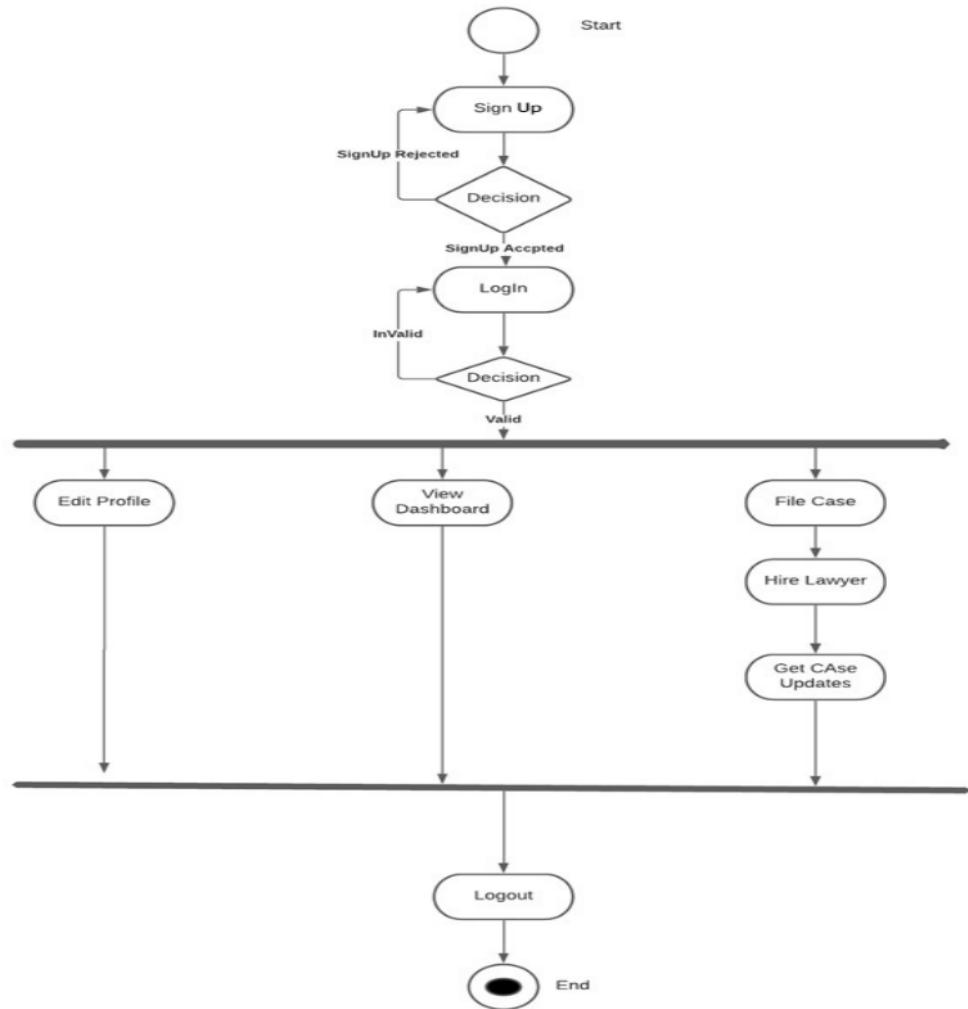


Figure 4.2 Activity Diagram of Case Filer

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Activity diagram of Lawyer: -

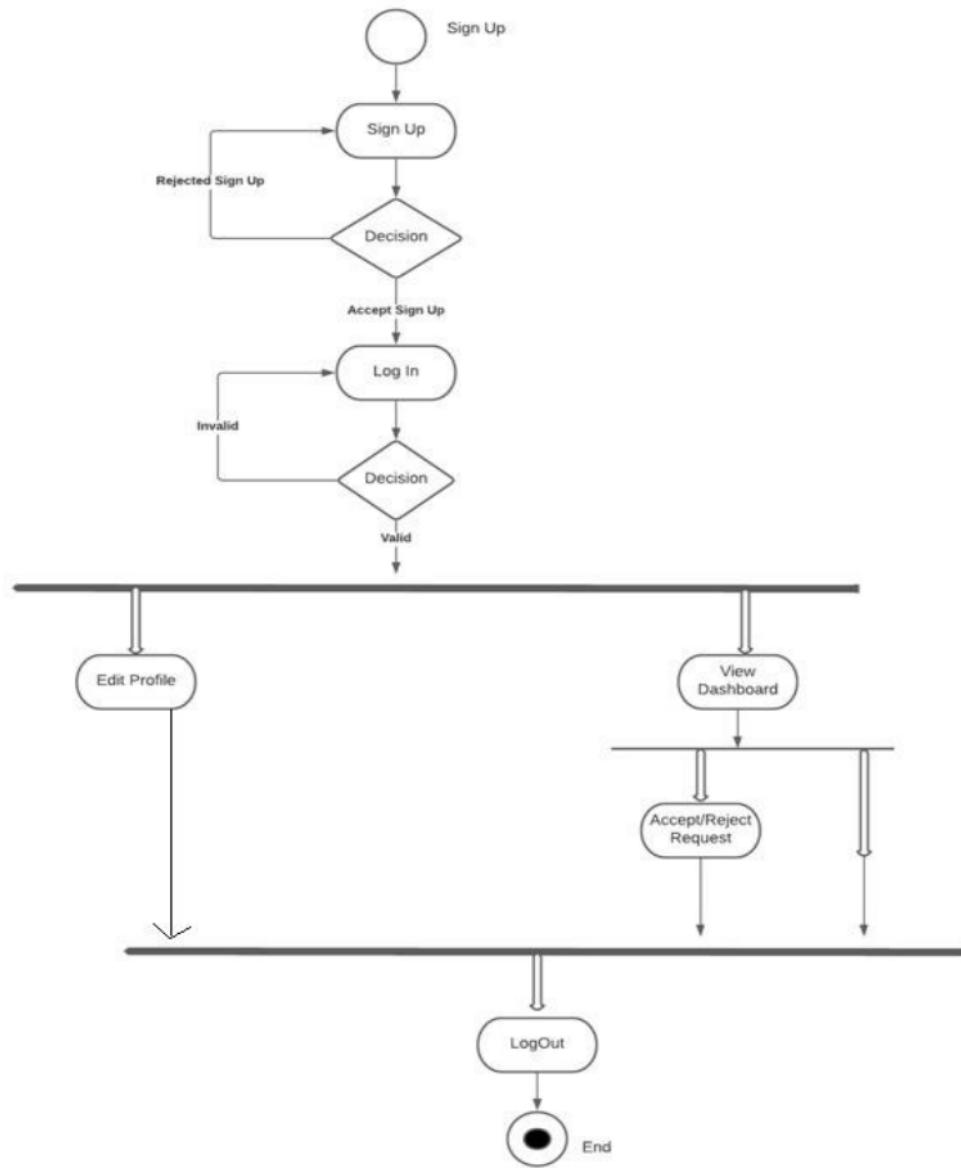


Figure 4.3 Activity Diagram of Lawyer

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Activity diagram of D&SJ: -

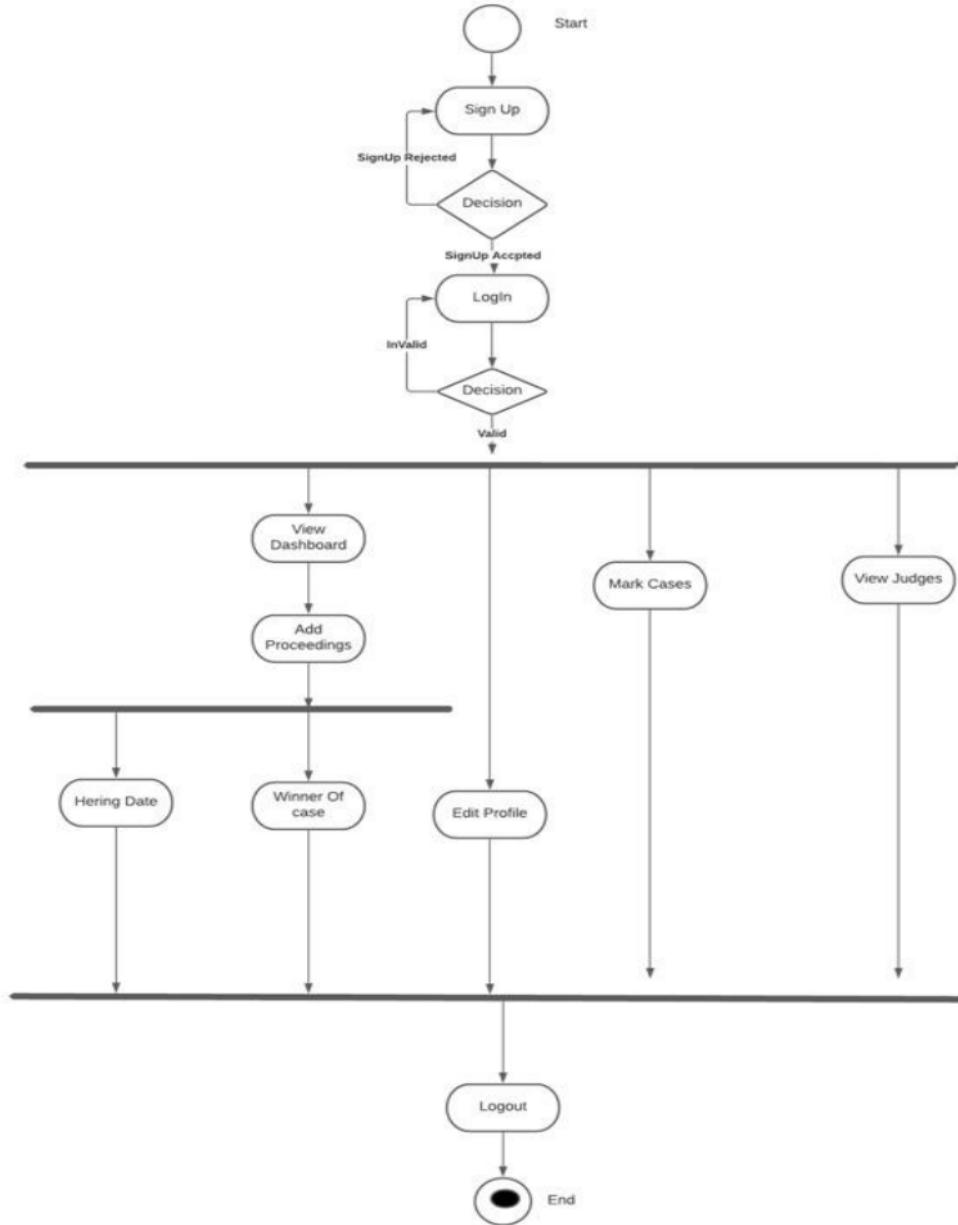


Figure 4.4 Activity Diagram of D&SJ

Activity diagram of Sub-ordinate judges (i.e. AD&SJ/SCJ/CJ) :-

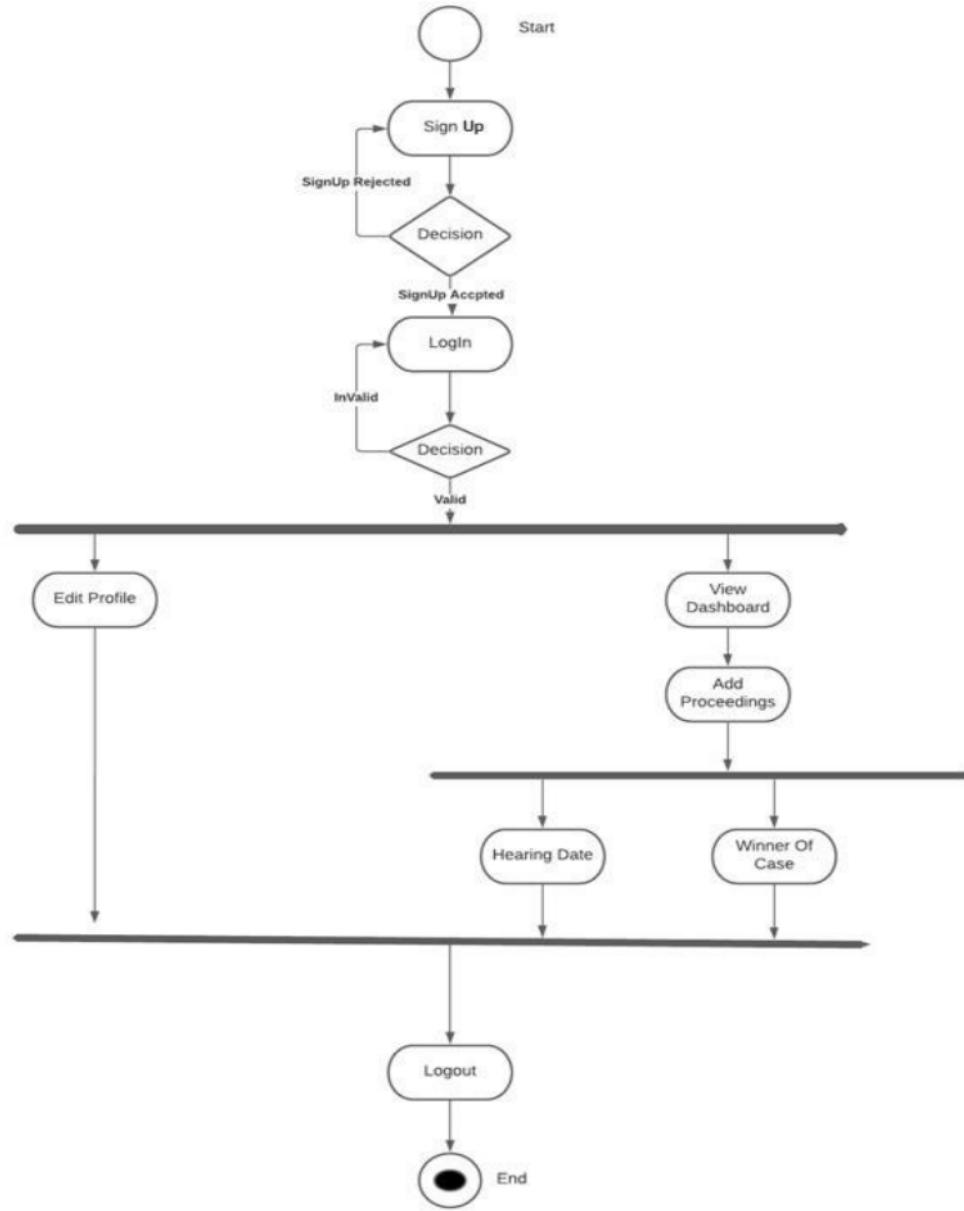
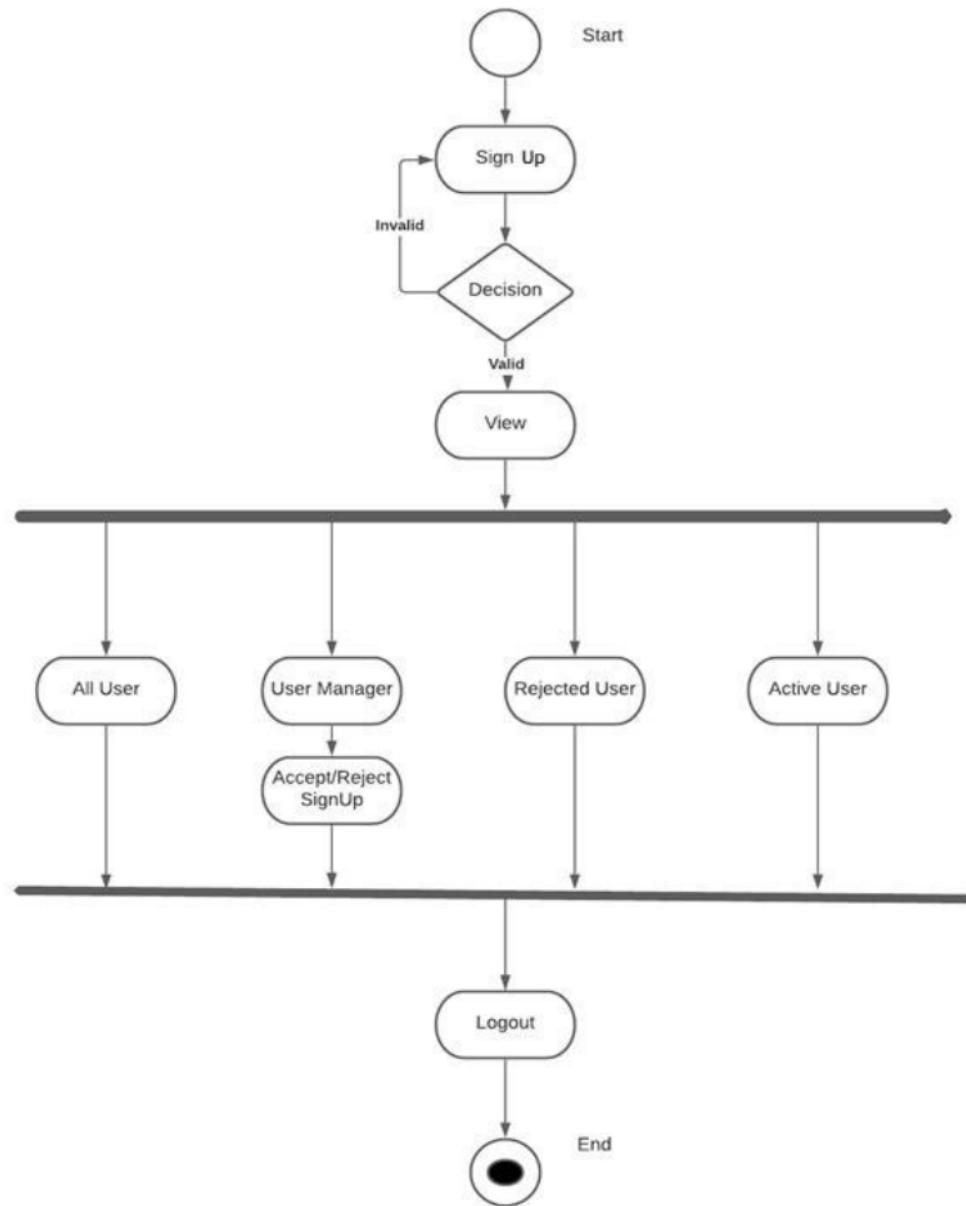


Figure 4.5 Activity Diagram of Sub-ordinate judges (i.e. AD&SJ/SCJ/CJ)

Activity diagram of Admin: -**Figure 4.6 Activity Diagram of Admin side**

Context / Level Zero Data Flow Diagram:

A context diagram defines the boundary between the system, or part of a system, and its environment, showing the entities that interact with it. It is used to establish the context and boundaries of the system to be modeled that which things are inside and outside of the system being modeled, and what is the relationship of the system with these external entities. A context diagram is also known as a level 0 data-flow diagram.

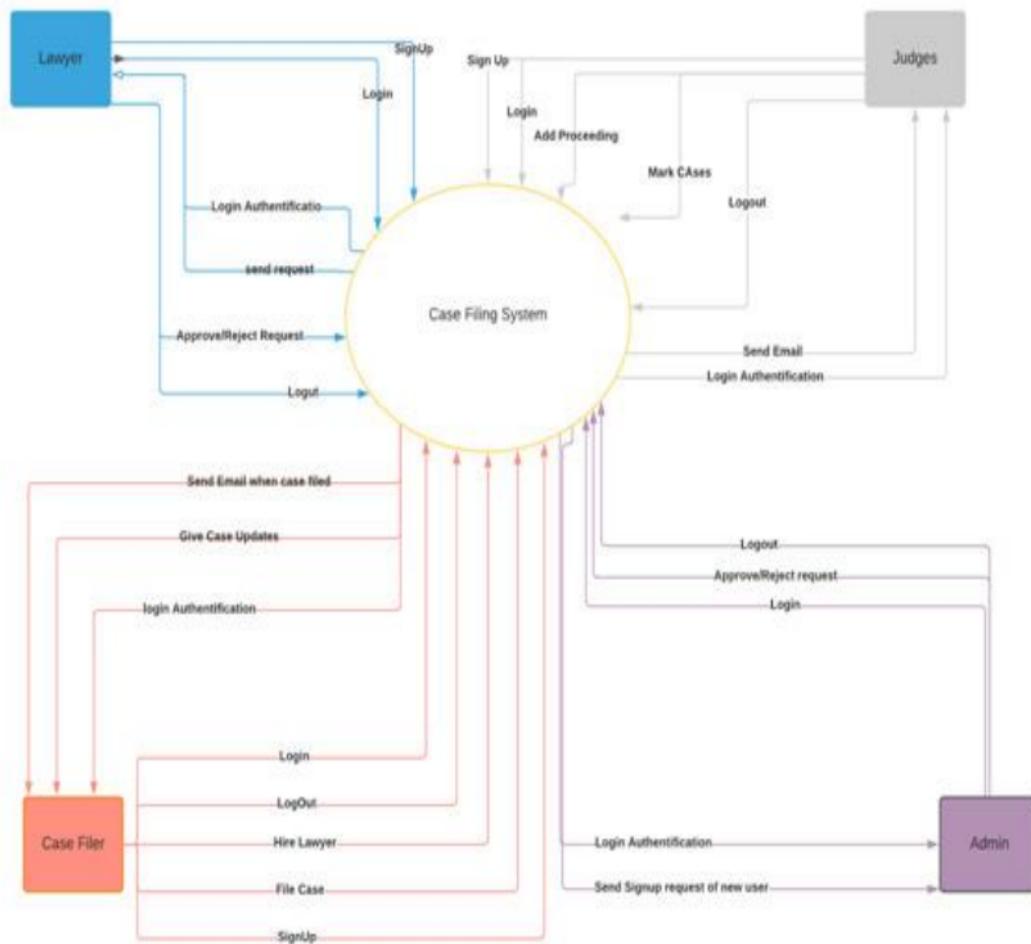


Figure 4.7 Context Diagram of Online Case Filing System

Sequence diagram of Case filer: -

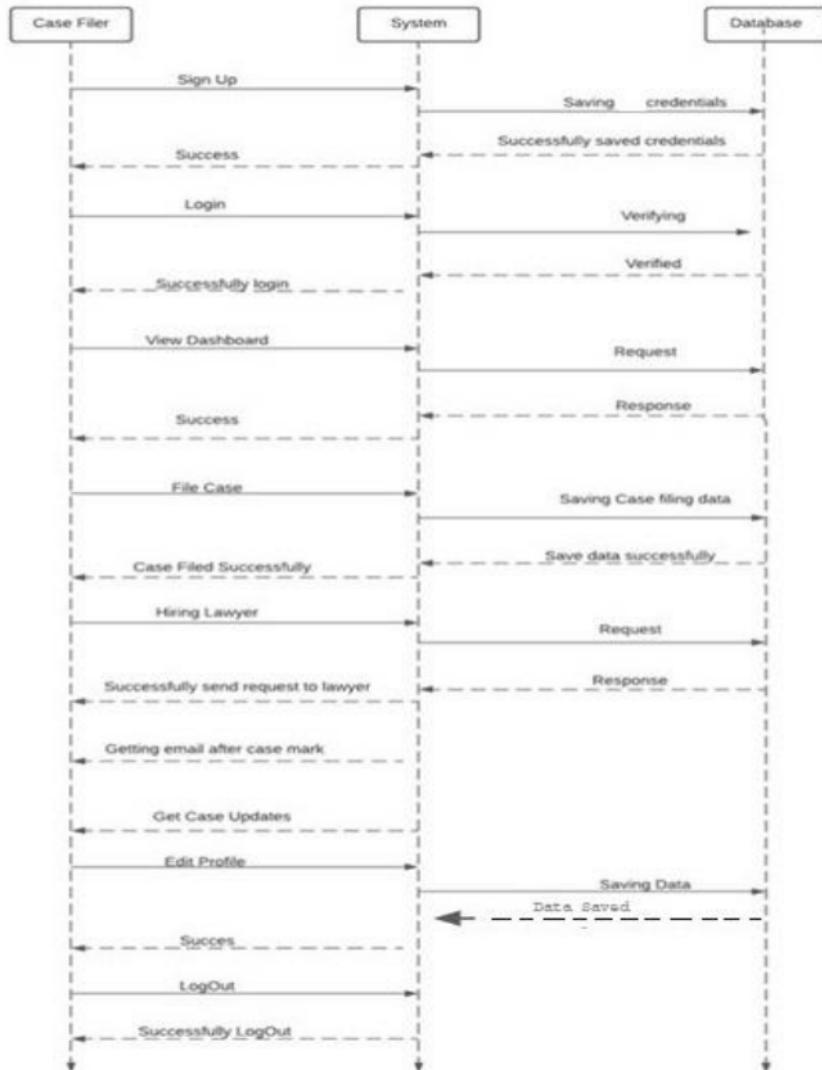


Figure 4.8 Sequence diagram of case filer

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Sequence diagram of Admin: -

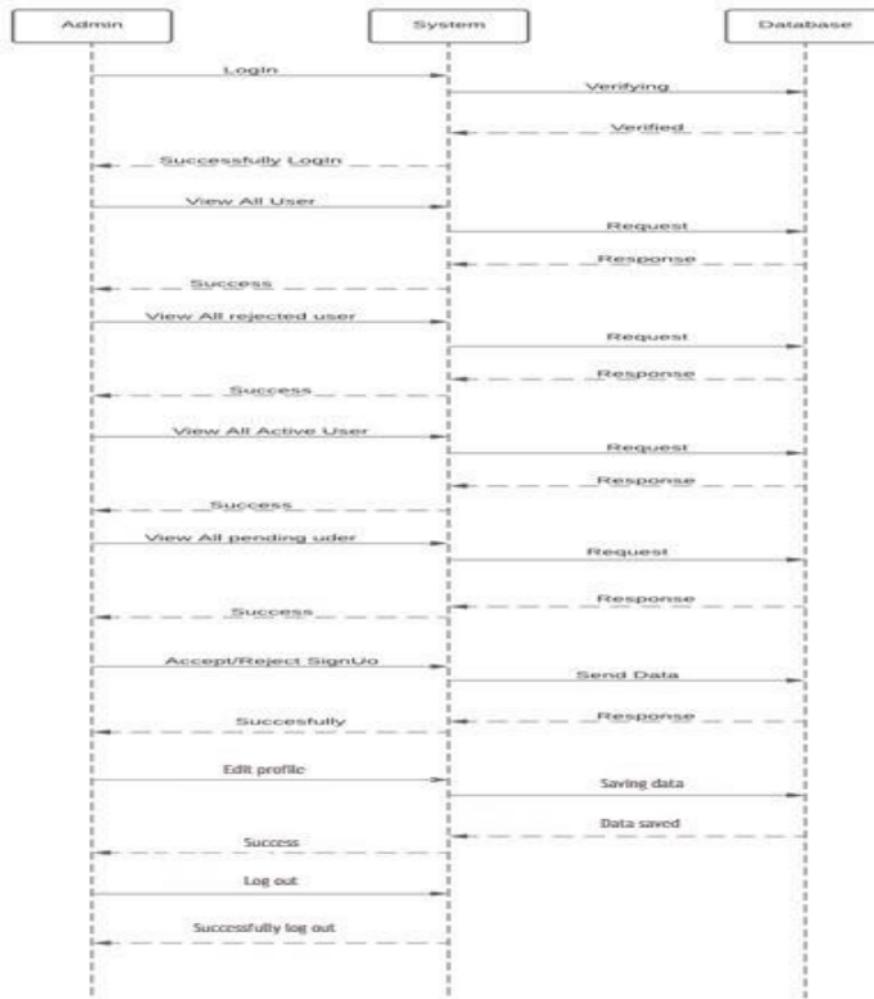
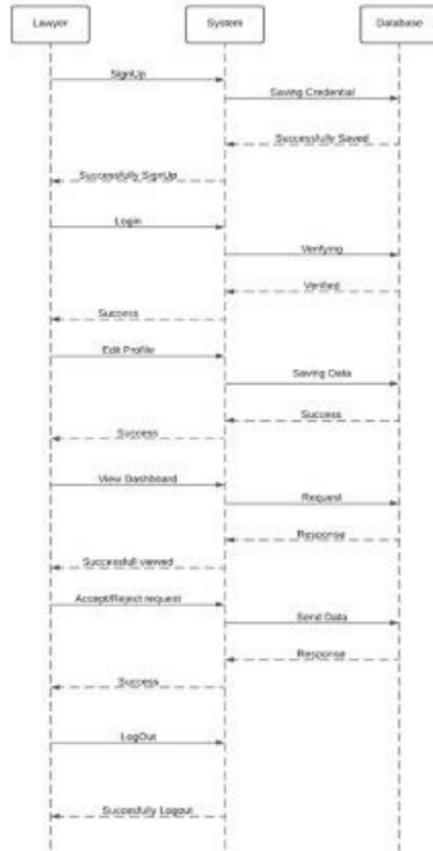


Figure 4.9 Sequence diagram of Admin

Sequence diagram of Lawyer: -



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Figure 4.9 Sequence diagram of Lawyer

Sequence diagram of Judges: -



Figure 4.10 Sequence diagram of Lawyer

CHAPTER 5

IMPLEMENTATION

5.1 User Interfaces: -

5.1.1 User Sign-Up:

This is the Sign-up page for registration of litigants, lawyers and judges.

The screenshot shows the 'Online Case Filing System' sign-up page. The title 'Online Case Filing System' is at the top, followed by the subtitle 'E-Filing Service in District & Sessions Court Attock'. Below this is a white form area with the heading 'Register a new Account'. The form fields are as follows:

- First Name:** Input field with a person icon.
- Last Name:** Input field with a person icon.
- Email Address:** Input field with an envelope icon.
- User Name:** Input field with a person icon.
- Password:** Input field with a lock icon.
- Confirm Password:** Input field with a lock icon.
- Phone Number:** Input field with a phone icon, placeholder 'Ex: +00 (000) 000-00-00'.
- CNIC:** Input field with a CNIC icon, placeholder 'CNIC: 00000-0000000-0'.
- Select your role:** A dropdown menu with the placeholder '--Select your role--'.

A large red 'SIGN UP' button is at the bottom of the form. Below it, a link says 'You already have a membership?'. The background of the page is teal.

Figure 5.1.1 User Sign-Up

5.1.2 Log-In page:

This is the log-in page for admin, litigant, lawyer, judge.

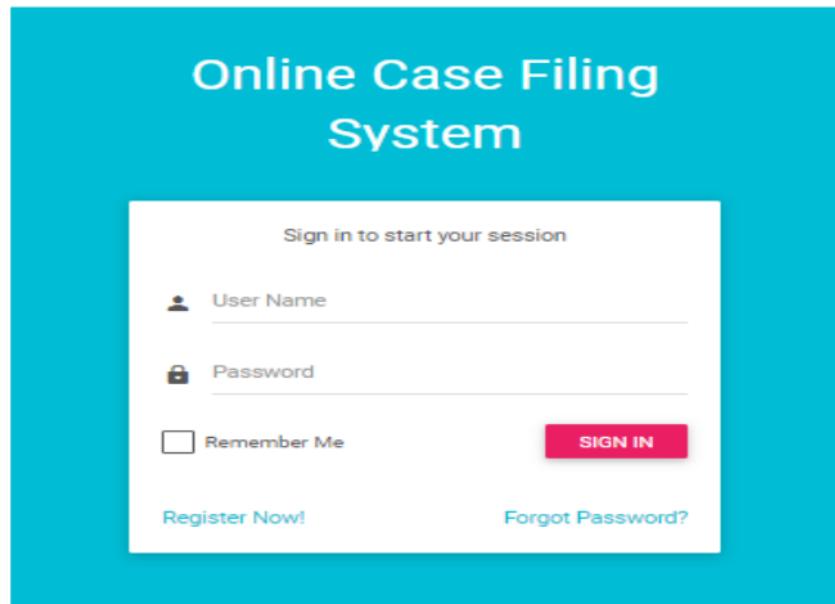


Figure 5.1.2 User Sign-In

5.1.3 Dashboard of litigant:

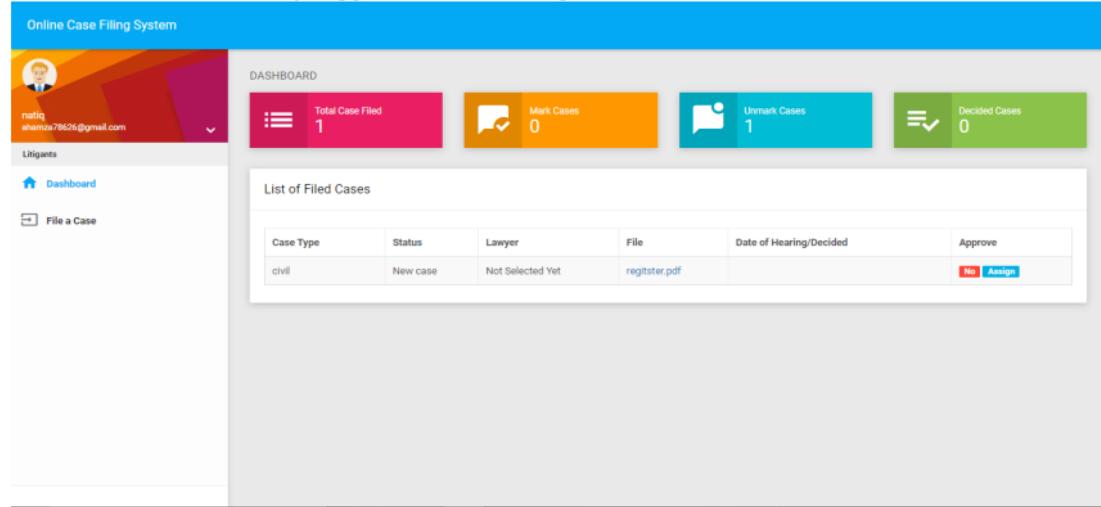
This is the dashboard of litigant and from here the litigant can file case and can do much more.

A screenshot of the 'Online Case Filing System' litigant dashboard. The interface is divided into sections: a sidebar on the left with a profile picture and email (nafiq.alamca7862@gmail.com), a 'Litigants' section with 'Dashboard' and 'File a Case' options, and a main 'DASHBOARD' area. The dashboard shows four summary boxes: 'Total Case Filed' (1), 'Mark Cases' (0), 'Unmark Cases' (1), and 'Decided Cases' (0). Below these is a table titled 'List of Filed Cases' with one entry: a civil case filed as a 'New case' by 'Not Selected Yet' with the file 'register.pdf'. There are 'Approve' and 'Assign' buttons for this case.

Figure 5.1.3 Dashboard of litigant

5.1.4 Message after successful log-in:

Once the user successfully logged-in , this message will be visible.



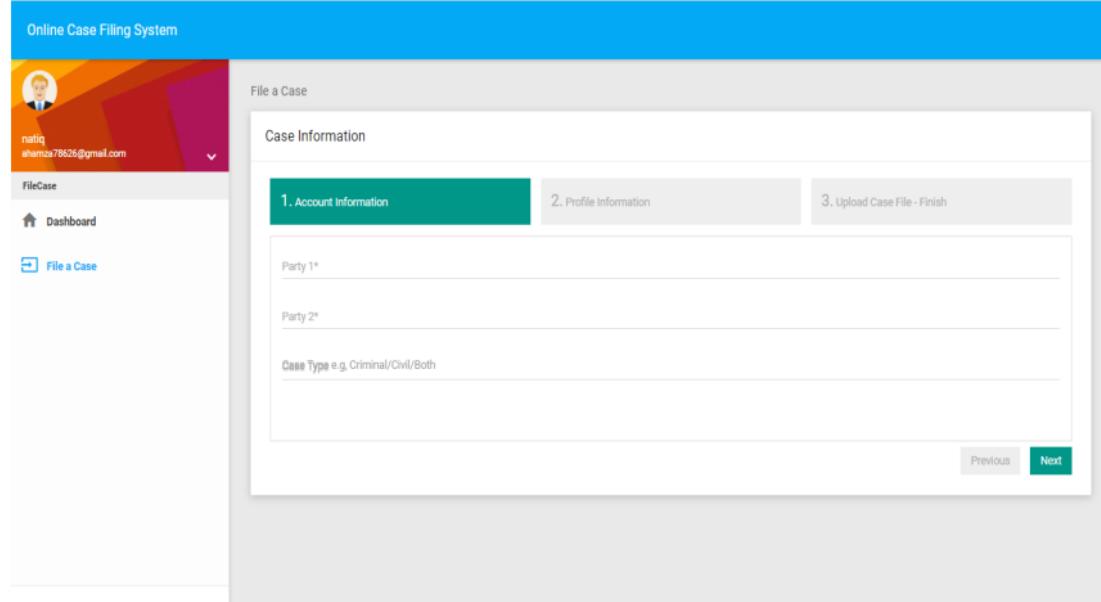
The screenshot shows the 'Online Case Filing System' dashboard. At the top, there's a blue header bar with the system name. Below it is a navigation sidebar on the left with options like 'Dashboard' and 'File a Case'. The main area is titled 'DASHBOARD' and contains four colored boxes: pink (Total Case Filed 1), orange (Mark Cases 0), teal (Unmark Cases 1), and green (Decided Cases 0). Below these is a section titled 'List of Filed Cases' with a table. The table has columns for Case Type (civil), Status (New case), Lawyer (Not Selected Yet), File (register.pdf), Date of Hearing/Decided, and Approve (with 'Not Assign' button). There are also 'Approve' and 'Assign' buttons at the bottom right of the table.

Figure 5.1.4 Message after successful log-in

5.1.5 Case Filing:

From this section, the litigant can file the cases.

5.1.5.1 Here the litigant will add the account information.



The screenshot shows the 'File a Case' process. On the left is a sidebar with 'FileCase' and 'Dashboard' options. The main area is titled 'Case Information' and shows a three-step wizard: '1. Account Information' (which is active and highlighted in teal), '2. Profile Information', and '3. Upload Case File - Finish'. The 'Account Information' step contains fields for 'Party 1*' and 'Party 2*', both of which are currently empty. Below these is a 'Case Type e.g. Criminal/Civil/Both' field, also empty. At the bottom right of the form are 'Previous' and 'Next' buttons.

Figure 5.1.5.1 Account Information for case filing

5.1.5.2 Here the litigant will add his/her profile information:

The screenshot shows the 'File a Case' interface with the 'Case Information' tab selected. The '2. Profile Information' step is active. The form fields include: First Name*, Last Name*, Email*, Phone*, Address*, and Age*. A note at the bottom states: 'The warning step will show up if age is less than 18'. Below the form are 'Previous' and 'Next' buttons.

Figure 5.1.5.2 Profile Information for case filing

5.1.5.3 This the last step for case filing and here the litigant will add the file of the case.

The screenshot shows the 'File a Case' interface with the 'Case Information' tab selected. The '3. Upload Case File - Finish' step is active. It features a large demo dropzone with a hand cursor icon and the text 'Drop files here or click to upload.' Below it is a note: '(This is just a demo dropzone. Selected files are not actually uploaded.)' and a 'Choose File' button with the message 'No file chosen'. At the bottom are 'Previous' and 'Finish' buttons.

Figure 5.1.5.3 Document uploading for case filing

5.1.6 Button for hiring lawyer

By clicking this “Assign” button, all the available lawyers will be visible to the litigants.

The screenshot shows the 'List of Filed Cases' section of the Online Case Filing System. The table displays various cases with columns for Case Type, Status, Lawyer, File, Date of Hearing/Decided, and Approve. In the 'Approve' column for the third row, there are four buttons: 'You Lose' (red), 'You Win' (green), 'Yes' (green), and three 'No Assign' buttons (blue). A red box highlights the 'No Assign' buttons for the third row.

Case Type	Status	Lawyer	File	Date of Hearing/Decided	Approve
Civil	New case	Aslam Malik	Party1	4/26/2021 12:00:00 AM	Red: You Lose
Criminal	New case	Abdullah Ahmed	Party1	4/26/2021 12:00:00 AM	Green: You Win
Criminal	New case	majeed khan	Jelli_PageArtboard_2.jpg		Green: Yes
civil	New case	Not Selected Yet	2017LHC2413.pdf		Blue: No Assign
civil	New case	Not Selected Yet	2017LHC2413.pdf		Blue: No Assign
civil	New case	Not Selected Yet	2017LHC2413.pdf		Blue: No Assign
civil	New case	Aslam Malik	Online Web-Based Roll No Slip.pdf	4/30/2021 12:00:00 AM	Green: You Win

Figure 5.1.6 Button for hiring lawyer

5.1.7 Choosing lawyer for hiring:

Form here the litigant will choose the lawyer for hiring.

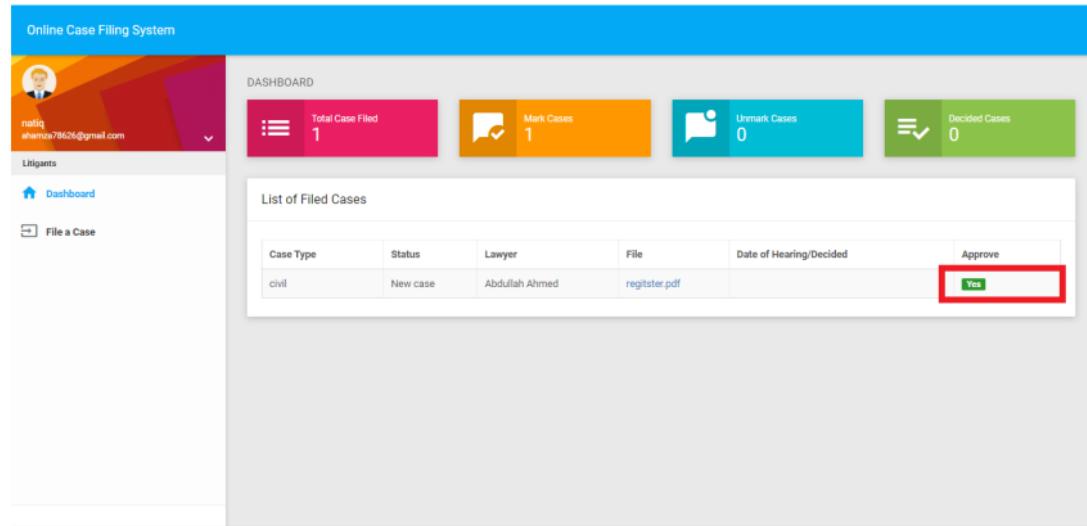
The screenshot shows the 'Recommended System' section of the Online Case Filing System. It displays a table of lawyers with columns for Name, Field, Fee, Phone, Rating, and Action. Each row has a 'Hire' button in the Action column. A red box highlights the 'Hire' button for the first lawyer listed.

Name	Field	Fee	Phone	Rating	Action
Abdullah Ahmed		0.00	+92 (312) 585-74-22	4 Star	Hire
majeed khan		50000.00	+92 (312) 525-88-52	0 Star	Hire
Aslam Malik	Criminal	65000.00	+31 (232) 131-23-...	3 Star	Hire
amanat khan	Civil	45000.00	+92 (320) 987-45-63	5 Star	Hire

Figure 5.1.7 Choose lawyer for hiring

5.1.8 Status Changed to “Yes”:

After hiring the lawyer, here the status will be changed from “No, Assign” to “Yes”



The screenshot shows the 'Online Case Filing System' dashboard. On the left, there's a sidebar with a user profile picture and the email 'nafiq.hamza7862@gmail.com'. Below it are links for 'Dashboard' and 'File a Case'. The main area has a 'DASHBOARD' header with four cards: 'Total Case Filed' (1), 'Mark Cases' (1), 'Unmark Cases' (0), and 'Decided Cases' (0). Below the dashboard is a table titled 'List of Filed Cases' with one row:

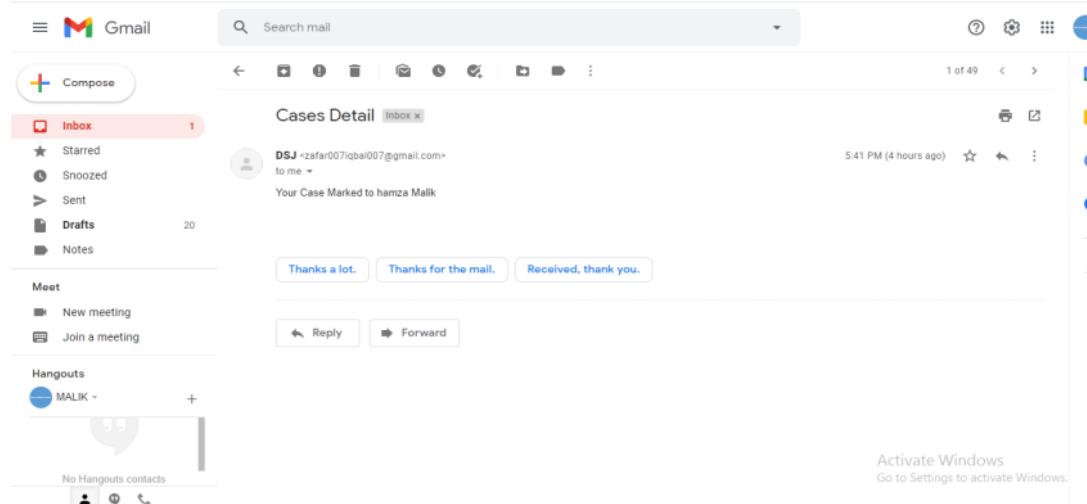
Case Type	Status	Lawyer	File	Date of Hearing/Decided	Approve
civil	New case	Abdullah Ahmed	register.pdf		<button>Yes</button>

A red box highlights the 'Yes' button in the 'Approve' column.

Figure 5.1.8 Status of lawyer change to “Yes”

5.1.9 Email received by the litigant:

Email will be received by the litigant after the case marked by the District and Session judge(D&SJ)



The screenshot shows a Gmail inbox with the subject 'Cases Detail' and a message from 'DSJ <zafar007@qbal007@gmail.com>'. The message body says 'Your Case Marked to hamza Malik'. Below the message are three buttons: 'Thanks a lot.', 'Thanks for the mail.', and 'Received, thank you.'. At the bottom are 'Reply' and 'Forward' buttons. The left sidebar shows the user's profile, a list of emails (Inbox, Drafts, Notes), and other Google services like Meet and Hangouts.

Figure 5.1.9 Email received by the litigant

5.1.10 Email received by the case hearing judge:

Email will be received by the case hearing judge after the case marked by the District and Session judge(D&SJ)

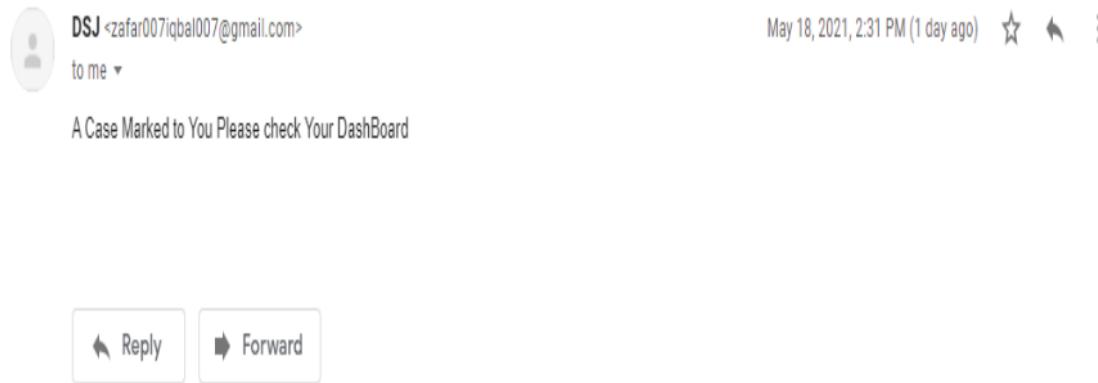


Figure 5.1.10 Email received by the case hearing judge

5.1.11 Date of Case hearing:

When the Case hearing judge will add the hearing date of the case, the date will be visible here.

The screenshot shows the 'Online Case Filing System' dashboard. At the top right, there is a green success message: 'Success! Login Successfully !'. The dashboard has a sidebar with 'Litigants' and links for 'Dashboard' and 'File a Case'. The main area is titled 'DASHBOARD' and shows four cards: 'Total Case Filed 1', 'Mark Cases 1', 'Unmark Cases 0', and 'Decided Cases 0'. Below the dashboard, a table titled 'List of Filed Cases' is displayed. The table has columns: Case Type, Status, Lawyer, File, and Date of Hearing/Decided. The first row shows: 'civil', 'New case', 'Abdullah Ahmed', 'register.pdf', and '5/13/2021 12:00:00 AM'. A red box highlights the 'Date of Hearing/Decided' column. There is also an 'Approve' button with a 'Yes' link. At the bottom right, there is a watermark: 'Activate Windows Go to Settings to activate Windows.'

Figure 5.1.11 Date of Case hearing

5.1.12 Litigant can edit profile:

From here the litigant will be able to edit his/her profile.

The screenshot shows the 'Online Case Filing System' interface. On the left, there's a sidebar with a user profile picture, the name 'natiq', and the email 'ahamza78626@gmail.com'. Below this are links for 'Profiles', 'Dashboard', and 'File a Case'. The main area has a title 'natiq hussain' under 'Litigants'. To the right is a 'Profile Settings' form with fields for First Name ('natiq'), Last Name ('hussain'), Phone ('+92 (320) 888-22-29'), CNIC ('37101-9334343-'), Email ('ahamza78626@gmail.com'), and Profile Picture ('Choose File'). A 'SUBMIT' button is at the bottom. The top navigation bar also has 'Profile Settings' and 'Change Password' options.

Figure 5.1.12 Litigant can edit profile

5.1.13 Sign-Out of litigant:

By clicking on this button, the litigant will be signed out.

The screenshot shows the 'Online Case Filing System' dashboard. The sidebar includes a 'Sign Out' button highlighted with a red box. The main dashboard features four cards: 'Total Case Filed' (1), 'Mark Cases' (0), 'Unmark Cases' (1), and 'Decided Cases' (0). Below these is a section titled 'List of Filed Cases' with a single entry: 'Case Type: civil, Status: New case, Lawyer: Not Selected Yet, File: register.pdf, Date of Hearing/Decided: [empty], Approve: No | Assign'. The top navigation bar has 'Profile Settings' and 'Change Password' options.

Figure 5.1.13 Sign-Out of litigant

5.1.14 Lawyer's Dashboard:

From here the lawyer will be able to accept/reject the litigant's request for hiring.

The screenshot shows the 'Online Case Filing System' dashboard. On the left, there is a sidebar with a profile picture of 'Abdullah' and the email 'zafar007@cba007@gmail.com'. Below the profile is a 'Lawyers' section with a 'Dashboard' link. The main area is titled 'DASHBOARD' and contains four cards: 'Total Case Filed' (3), 'Mark Cases' (3), 'Unmark Cases' (0), and 'Decided Cases' (1). Below these cards is a table titled 'List of Filed Cases' with the following data:

FirstName	LastName	Phone	Case Type	Date of Hearing/Decided	Attachment	Action
abdul	majeed	0321456789	Criminal	4/26/2021 12:00:00 AM	Party1	You Win
ali	asd	453213	criminal	5/3/2021 12:00:00 AM	Online Web-Based Roll No Slip.pdf	Case Filed
natiq	hussain	03209393939	civil		register.pdf	Accept Reject

Figure 5.1.14 Lawyer's Dashboard

5.1.15 Status changed to “Case filed”:

When the lawyer accepts the litigant's request for hiring, the status will be changed from “Accept/Reject” to “Case Filed”.

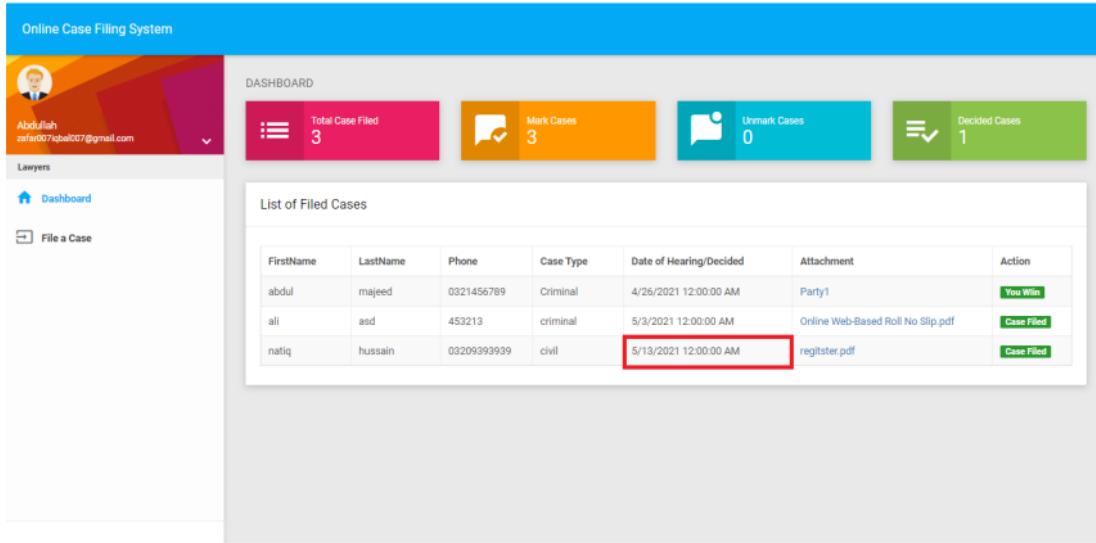
This screenshot is identical to Figure 5.1.14, showing the 'Online Case Filing System' dashboard. The 'List of Filed Cases' table now shows the third row (natiq/hussain) with a different status in the 'Action' column:

FirstName	LastName	Phone	Case Type	Date of Hearing/Decided	Attachment	Action
abdul	majeed	0321456789	Criminal	4/26/2021 12:00:00 AM	Party1	You Win
ali	asd	453213	criminal	5/3/2021 12:00:00 AM	Online Web-Based Roll No Slip.pdf	Case Filed
natiq	hussain	03209393939	civil		register.pdf	Case Filed

Figure 5.1.15 Status change to “Case filed”

5.1.16 Date of Case hearing for lawyer:

When the Case hearing judge will add the hearing date of the case, the date will be visible here

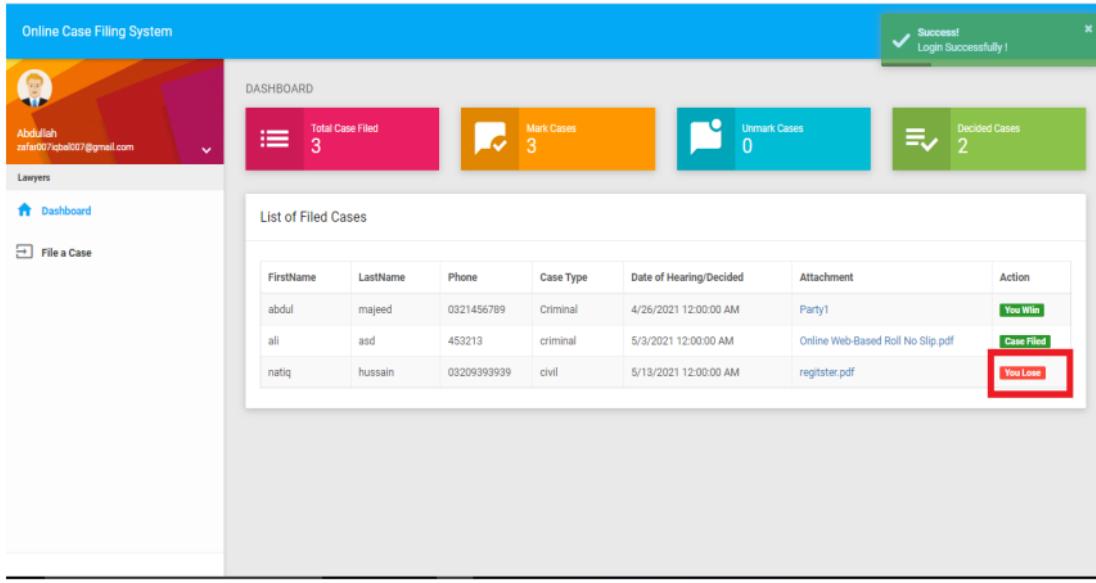


The screenshot shows the Online Case Filing System dashboard. On the left, there's a sidebar with a profile picture of 'Abdullah zafar007@qbal007@gmail.com' and navigation links for 'Dashboard' and 'File a Case'. The main area is titled 'DASHBOARD' and features four colored boxes: pink (Total Case Filed 3), orange (Mark Cases 3), teal (Unmark Cases 0), and green (Decided Cases 1). Below these is a table titled 'List of Filed Cases' with columns: FirstName, LastName, Phone, Case Type, Date of Hearing/Decided, Attachment, and Action. The third row shows a case for 'natiq hussain' with the 'Date of Hearing/Decided' field highlighted with a red border and containing the value '5/13/2021 12:00:00 AM'.

Figure 5.1.16 Date of Case hearing for lawyer

5.1.17 Decision of the Case:

When the case hearing judge will decide the case, the decision will be visible here to the lawyer.



The screenshot shows the Online Case Filing System dashboard after a decision has been made. A green success message at the top right says 'Success! Login Successfully !'. The sidebar and dashboard layout are identical to Figure 5.1.16. The 'List of Filed Cases' table shows the same three cases. The third case for 'natiq hussain' now has a red box around the 'Action' column, which displays the text 'You Lose'.

Figure 5.1.17 Decision of Case

5.1.18 Lawyer can edit profile:

From here the litigant will be able to edit the profile.

The screenshot shows the 'Online Case Filing System' interface. On the left, there is a sidebar with a user profile for 'Abdullah zafar007@qbal007@gmail.com'. Below it are 'Profiles', 'Dashboard', and 'File a Case' buttons. The main content area displays a profile card for 'Abdullah Ahmed' (Lawyer). To the right is a 'Profile Settings' form with fields for First Name (Abdullah), Last Name (Ahmed), Phone (+92 (312) 585-74-22), CNIC (37101-1518941-5), Email (zafar007@qbal007@gmail.com), Fee (0.00), and Profile Picture (choose file). A red 'SUBMIT' button is at the bottom. The entire interface has a light blue header bar.

Figure 5.1.18 Lawyer can edit profile

5.1.19 Sign-Out of lawyer:

By clicking on this button, the lawyer will be signed out.

This screenshot is similar to Figure 5.1.18, showing the 'Online Case Filing System' interface. The sidebar includes a 'Sign Out' button, which is highlighted with a red box. The main content area shows the same profile settings form for 'Abdullah Ahmed'. The 'SUBMIT' button is visible at the bottom of the form. The overall layout is consistent with the previous figure, featuring a light blue header and sidebar.

Figure 5.1.19 Sign-Out of lawyer

5.1.20 Admin's Dashboard:

This is the dashboard of the Admin and from here the Admin can accept/reject users.

The screenshot shows the Admin's Dashboard of the Online Case Filing System. At the top, there are four cards: 'Total User Registered' (15), 'Waiting for Approval' (2), 'Rejected Users' (2), and 'Active Users' (11). Below these is a table titled 'Users List For Approval' with columns: FirstName, LastName, Role, Phone, RegistrationDate, Reject, and Approve. Two entries are listed: '2343432' and 'raza'. Each entry has 'Reject' and 'Approve' buttons. The table includes standard export options (Copy, Excel, PDF, Print) and a search bar. The sidebar on the left shows the Admin's profile and navigation links for All Users, User Manager, Rejected User, Active User, and Reports.

FirstName	LastName	Role	Phone	RegistrationDate	Reject	Approve
2343432	234324	Litigants	+92 (320) 850-88-2...	5/6/2021 11:14:24 AM	<button>Reject</button>	<button>Approve</button>
raza	ahmed	Judge	+65 (123) 313-13-12	4/25/2021 2:51:43 PM	<button>Reject</button>	<button>Approve</button>

Figure 5.1.20 Admin's Dashboard

5.1.21 List of all Registered Users:

This is the list of all users who have filed the Sign-Up form for registration.

The screenshot shows the 'Registered User List' page of the Online Case Filing System. It displays a table of registered users with columns: FirstName, LastName, Role, Phone, RegistrationDate, and Status. The status column uses color-coded icons: orange for 'Waiting', green for 'Approved', and red for 'Rejected'. The table includes standard export options (Copy, Excel, PDF, Print) and a search bar. The sidebar on the left shows the Admin's profile and navigation links for All Users, User Manager, Rejected User, Active User, and Reports.

FirstName	LastName	Role	Phone	RegistrationDate	Status
2343432	234324	Litigants	+92 (320) 850-88-2...	5/6/2021 11:14:24 AM	Waiting
Abdullah	Ahmed	Laywer	+92 (312) 585-74-22	6/8/2020 2:53:53 PM	Approved
Ali	khan	Litigants	+92 (312) 528-85-82	6/11/2020 8:45:49 AM	Approved
Asad	Khan	Judge	+92 (312) 528-85-82	6/18/2020 9:45:47 AM	Approved
asif	ali	Litigants	+92 (123) 216-51-32	6/8/2020 2:54:43 PM	Waiting
Aslam	Malik	Laywer	+91 (232) 191-23-...	4/25/2021 3:04:36 PM	Approved
hamza	Malik	Judge	+92 (312) 528-85-82	12/14/2020 11:09:28 AM	Approved
majeed	khan	Laywer	+92 (312) 528-85-82	6/12/2020 8:46:36 PM	Approved
natiq	hussein	Litigants	+92 (320) 888-22-29	5/11/2021 4:26:09 PM	Approved
qammer	abbas	Litigants	+98 (066) 412-33-93	5/4/2021 9:44:24 PM	Waiting
raza	ahmed	Judge	+65 (123) 313-13-12	4/23/2021 2:51:43 PM	Waiting
Saad	khan	Litigants	+95 (021) 345-02-03	4/29/2021 4:20:21 PM	Approved
Sheraz	Khan	Judge	+92 (315) 424-58-85	6/12/2020 11:29:48 AM	Waiting
Yasir	Mehmood	Judge	+92 (312) 535-31-66	6/8/2020 2:52:25 PM	Approved

Figure 5.1.21 list of all registered users

5.1.22 List of all Rejected Users:

This is the list of all the users who are rejected by the Admin.

The screenshot shows the 'Rejected User List' page of the 'Online Case Filing System'. The left sidebar shows a user profile for 'Nouman' (malik.nouman68@gmail.com) and navigation links for 'RejectedUser', 'All Users', 'User Manager', 'Rejected User' (which is selected), and 'Active User'. The main content area has a table titled 'Rejected User' with columns: FirstName, LastName, Role, Phone, RegistrationDate, and Status. Two entries are listed: 'asif ali' (Role: Litigants, Status: Rejected) and 'Sheraz Khan' (Role: Judge, Status: Rejected). A search bar and pagination controls are at the bottom.

FirstName	LastName	Role	Phone	RegistrationDate	Status
asif	ali	Litigants	+92 (125) 216-51-32	6/8/2020 2:54:43 PM	Rejected
Sheraz	Khan	Judge	+92 (315) 424-58-85	6/12/2020 11:29:48 AM	Rejected

Figure 5.1.22 list of all rejected users

5.1.23 List of all Active Users:

This is the list of all those users who are approved by the Admin.

The screenshot shows the 'Active User List' page of the 'Online Case Filing System'. The left sidebar shows a user profile for 'Nouman' (malik.nouman68@gmail.com) and navigation links for 'ActiveUser', 'All Users', 'User Manager', 'Rejected User', 'Active User' (which is selected), and 'Reports'. The main content area has a table titled 'Active User' with columns: FirstName, LastName, Role, Phone, RegistrationDate, and Status. Eleven entries are listed, all with 'Status: Active'. The entries include names like Abdullah, Ali, amanat, Asaad, Aalam, hamza, majeed, natio, qammer, Saad, and Yassir, with various roles like Lawyers, Litigants, and Judge.

FirstName	LastName	Role	Phone	RegistrationDate	Status
Abdullah	Ahmed	Lawyers	+92 (312) 585-74-22	6/8/2020 2:53:53 PM	Active
Ali	khan	Litigants	+92 (312) 528-85-82	6/11/2020 8:49:49 AM	Active
amanat	khan	Lawyers	+92 (320) 87-45-63	5/17/2021 2:27:14 PM	Active
Asaad	Khan	Judge	+92 (312) 528-85-82	6/18/2020 9:45:47 AM	Active
Aalam	Malik	Lawyers	+91 (232) 131-23-__	4/25/2021 3:04:36 PM	Active
hamza	Malik	Judge	+92 (312) 528-85-82	12/14/2020 11:09:28 AM	Active
majeed	khan	Lawyers	+92 (312) 525-88-82	6/12/2020 8:46:36 PM	Active
natio	hussain	Litigants	+92 (320) 888-22-29	5/11/2021 4:26:09 PM	Active
qammer	abbas	Litigants	+96 (966) 412-33-33	5/4/2021 9:44:24 PM	Active
Saad	khan	Litigants	+65 (321) 365-62-33	4/29/2021 4:20:21 PM	Active
Yassir	Mehmood	Judge	+92 (312) 535-31-86	6/8/2020 2:52:25 PM	Active

Figure 5.1.23 list of all active users

5.1.24 List of all Pending Users:

This is the list of all those users whose sign-up will be rejected or approved.

The screenshot shows the 'Online Case Filing System' interface for an 'ADMIN'. At the top, there's a header bar with the system name and a user profile for 'Noumen' (noumen@gmail.com). Below the header, there are four main status boxes: 'Total User Registered 14' (red), 'Waiting for Approval 3' (orange), 'Rejected Users 2' (red), and 'Active Users 9' (green). On the left, a sidebar menu includes 'All Users', 'User Manager' (selected), 'Rejected User', and 'Active User'. The main content area is titled 'Users List For Approval' and displays a table with three entries. The table columns are FirstName, LastName, Role, Phone, RegistrationDate, Reject, and Approve. The entries are: 2343432 (234324, Litigants, +92 (320) 850-88-2, 5/6/2021 11:14:24 AM, Reject, Confirm); qammer (abbas, Litigants, +78 (966) 412-33-33, 5/4/2021 9:44:24 PM, Reject, Confirm); and raza (ahmed, Judge, +65 (123) 313-13-12, 4/25/2021 2:51:43 PM, Reject, Confirm). A search bar and navigation buttons ('Previous', 'Next') are at the bottom of the table.

Figure 5.1.24 list of all pending users

5.1.25 Approve a User:

If Admin wants to approve a user, then the Admin will first click on “Accept” and then on “Yes, I confirm it”.

The screenshot shows the 'Online Case Filing System' interface for an 'ADMIN'. The layout is similar to Figure 5.1.24, with the same header, sidebar, and main content area. In the main content area, a modal dialog box is displayed over the 'Users List For Approval' table. The dialog contains a large orange exclamation mark icon, the text 'Are you sure?', and the message 'You want to Register this user!'. At the bottom of the dialog are two buttons: 'No' and 'Yes, I confirm it'. The rest of the page, including the table and status boxes, remains visible in the background.

Figure 5.1.25 Approve a user

5.1.26 Reject a User:

If Admin wants to reject a user, then the Admin will first click on “Reject” and then on “Yes”.

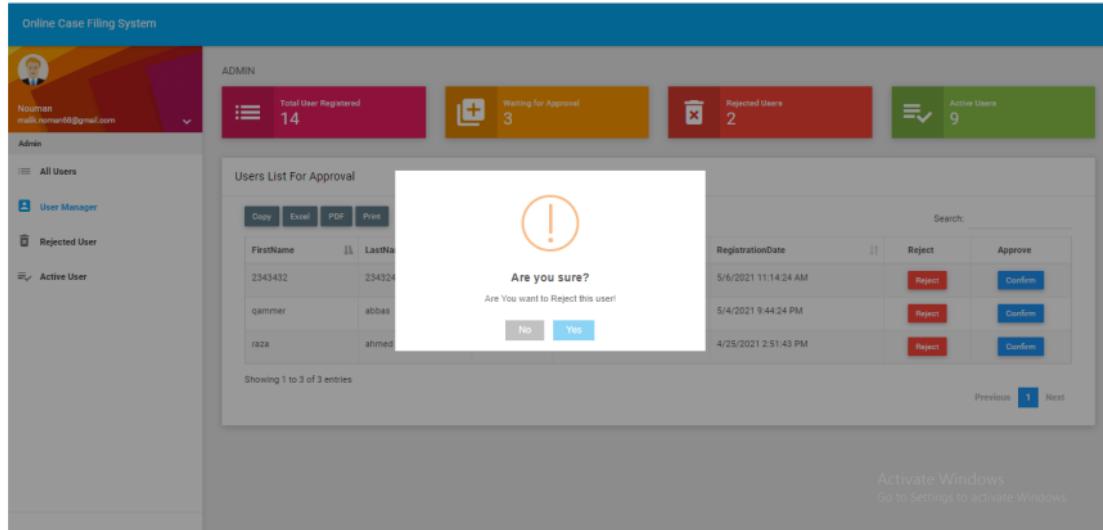


Figure 5.1.26 Reject a user

5.1.27 Generate a report:

Admin can generate the report from here by selecting the month and the report type i.e. pending/filed/decided/instituted/unmarked and then the Admin can print the list in pdf/excel or copy the list to clipboard.

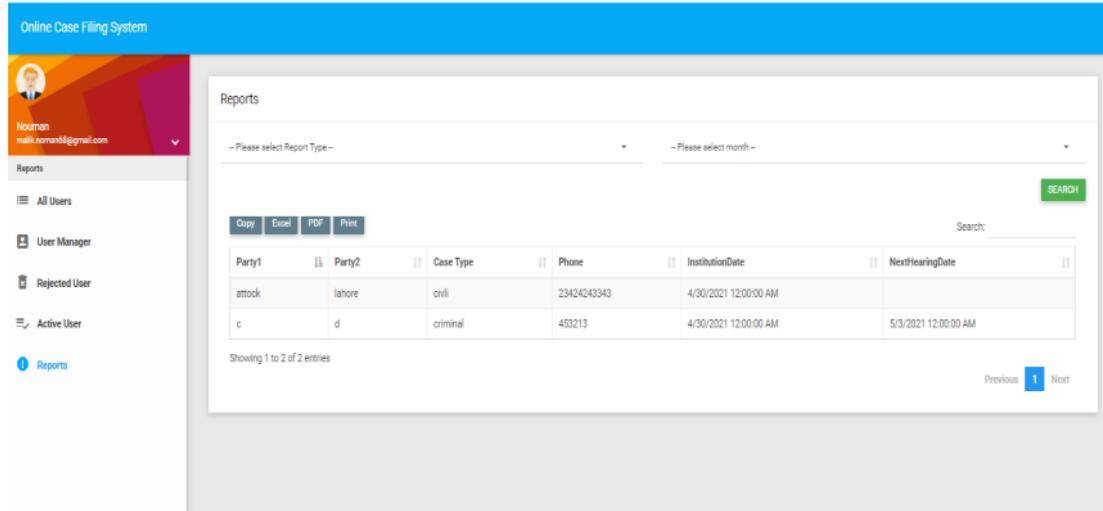


Figure 5.1.27 Generate report

5.1.28 Admin can edit profile:

From here the Admin will edit the profile.

The screenshot shows the 'Online Case Filing System' interface. On the left, there's a sidebar with navigation links: 'All Users', 'User Manager', 'Rejected User', and 'Active User'. The main area displays a user profile for 'Nouman Malik' (Admin). The profile picture is a placeholder. The profile settings form contains the following fields:

- First Name: Nouman
- Last Name: Malik
- Phone: +92 (312) 528-85-82
- CHIC: 37101-6257258-5
- Email: malk.nouman68@gmail.com

A 'Choose File' button is available for profile pictures, and a red 'SUBMIT' button is at the bottom.

Figure 5.1.28 Admin can edit profile

5.1.29 Sign-Out of Admin:

By clicking on this button, the Admin will be signed out.

The screenshot shows the 'Online Case Filing System' interface. The sidebar includes 'Profile', 'Sign Out' (which is highlighted with a red box), 'User Manager', 'Rejected User', and 'Active User'. The main area has a summary bar with four sections: 'Total User Registered: 14', 'Waiting for Approval: 2', 'Rejected Users: 2', and 'Active Users: 10'. Below this is a table titled 'Users List For Approval' with columns: FirstName, LastName, Role, Phone, RegistrationDate, Reject, and Approve. Two entries are listed:

FirstName	LastName	Role	Phone	RegistrationDate	Reject	Approve
2343432	234324	Litigants	+92 (320) 850-88-2_	5/6/2021 11:14:24 AM	<button>Reject</button>	<button>Confirm</button>
raza	ahmed	Judge	+65 (123) 313-13-12	4/25/2021 2:51:43 PM	<button>Reject</button>	<button>Confirm</button>

At the bottom, it says 'Showing 1 to 2 of 2 entries' and has 'Previous' and 'Next' buttons.

Figure 5.1.29 Sign-out of Admin

5.1.30 User's Sign-up is under consideration:

When user fills the sign-up form and click on “Sign-Up” then the request for account approval goes to the Admin and if the wants to log-in before the registration approved by the Admin, then this message will be shown.

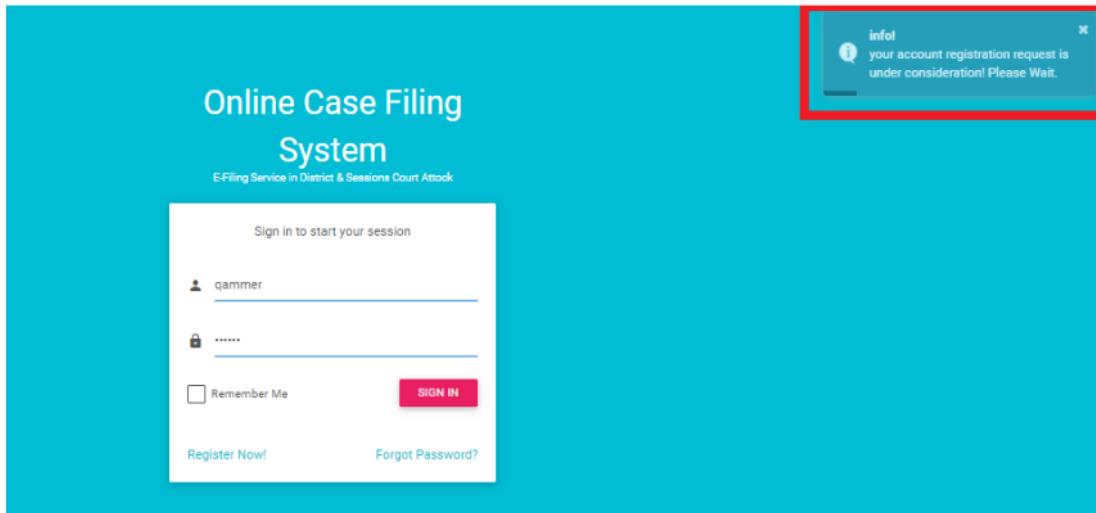


Figure 5.1.30 User's Sign-up is under consideration

5.1.31 Admin rejects the user's registration:

When the Admin reject the registration of the user, then this message will be shown.

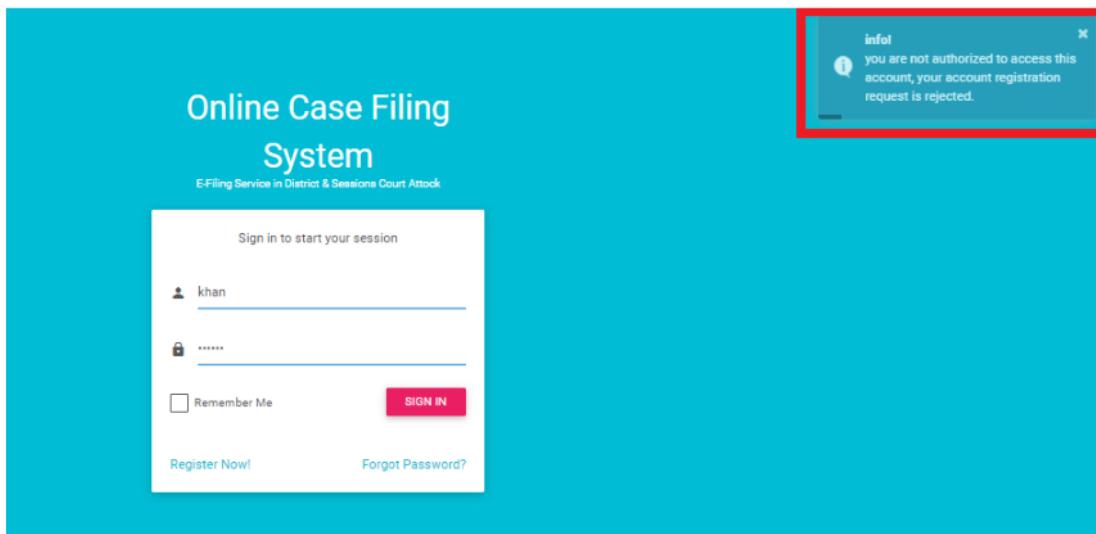


Figure 5.1.31 Admin rejects the user's registration

5.1.32 Dashboard of District and Session Judge(D&SJ):

This is the dashboard of D&SJ and from here the D&SJ can mark the cases, can add proceedings, view judges etc.

Online Case Filing System

Asad zafar007@qbel007@gmail.com

Home

Dashboard

Mark

Judges

Total Cases Filed 4

Today Fixed Cases 0

Pending Cases 1

Decided Cases 3

Party 1	Party 2	Institution Date	Case Type	Date of Hearing	Attachment	Action
t	t	4/25/2021 12:00:00 AM	Civil	4/26/2021 12:00:00 AM	Party1	Decided
a	a	4/24/2021 12:00:00 AM	Criminal	4/26/2021 12:00:00 AM	Party1	Decided
a	b	4/25/2021 12:00:00 AM	civil	4/30/2021 12:00:00 AM	Online Web-Based Roll No Slip.pdf	Decided
c	d	4/30/2021 12:00:00 AM	criminal	5/3/2021 12:00:00 AM	Online Web-Based Roll No Slip.pdf	Proceeding

5.1.32 Dashboard of District and Session Judge(D&SJ):

5.1.33 Mark the Case:

From here the D&SJ will be able to mark the cases by clicking on “Mark” button.

Online Case Filing System

Asad zafar007@qbel007@gmail.com

Mark

Dashboard

Mark

Judges

Total Cases Filed 3

Mark Cases 0

Unmark Cases 3

Decided Cases 0

FirstName	LastName	Email	Phone	Case Type	Attachment	Action
Joshua	Megorden	indiasucks11111@gmail.com	2183438075	Criminal	Jell_PageArtboard_2.jpg	Mark
waheed	awan	waheedawan123	123154354	civil	cc assignment 4 anas.pdf	Mark
natiq	hussain	ahamza78626@gmail.com	03209393939	civil	register.pdf	Mark

Figure 5.1.33 Mark Case

5.1.34 Available Judges for Case Mark:

From here the D&SJ will choose the judge for case mark. D&SJ can mark to himself or to the other judges.

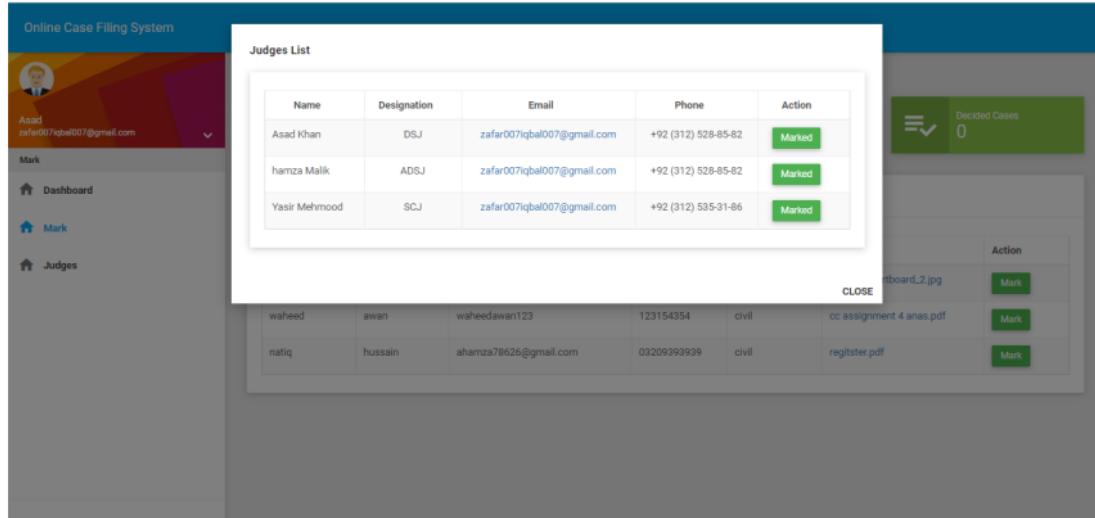


Figure 5.1.34 Available Judges for Case Mark

5.1.35 Confirmation message for case mark:

When D&SJ will click on “mark”, this confirmation message will be shown.

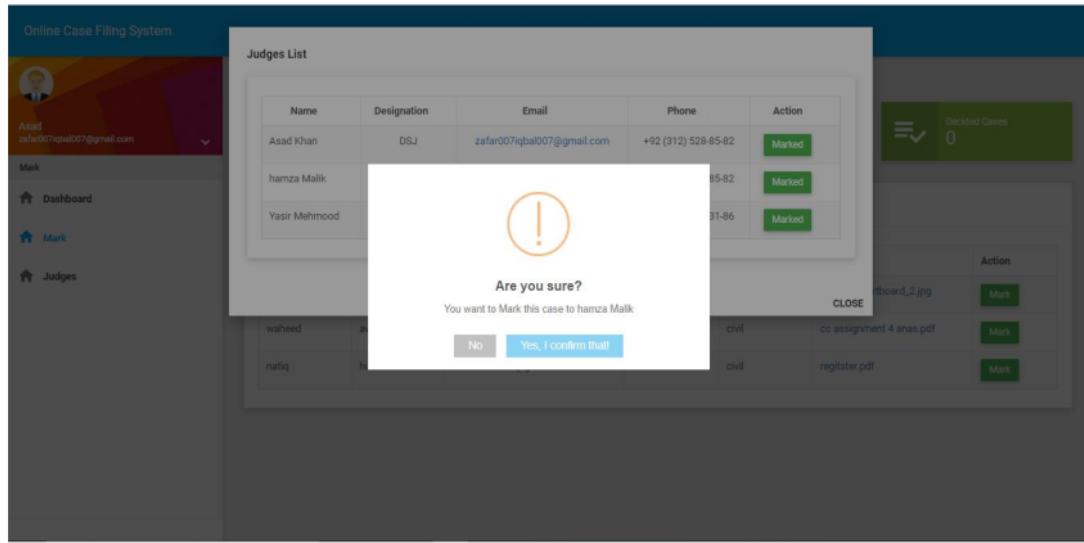
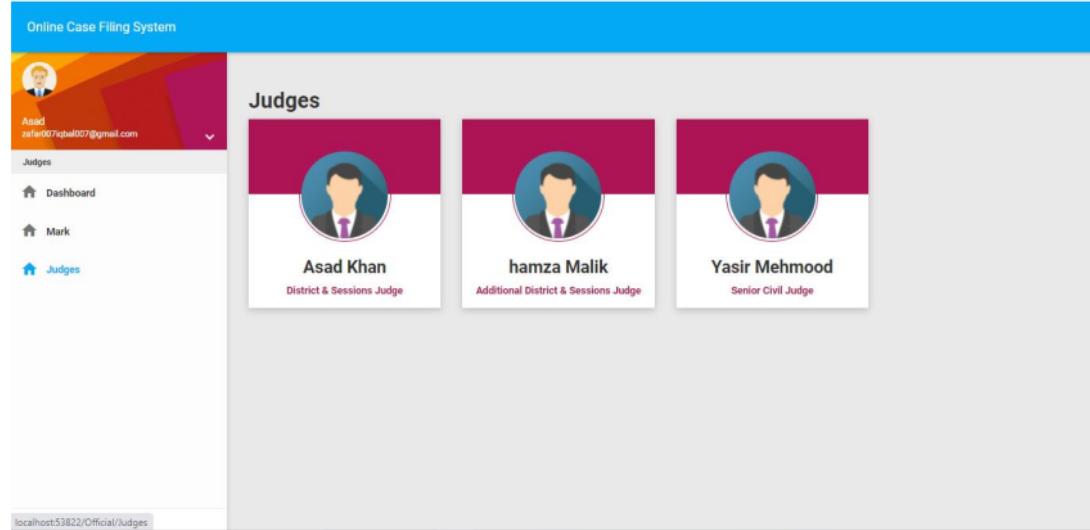


Figure 5.1.35 Confirmation message for case mark

5.1.36 All Registered Judges:

After the clicking on “Judges” button, all the registered judges will be shown to D&SJ with their names, designation and profile photo.

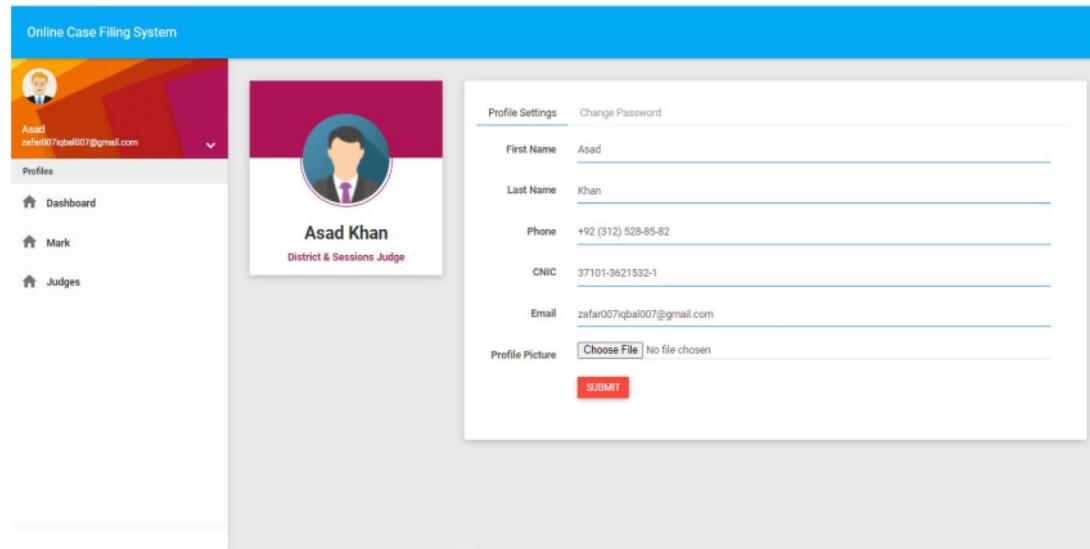


The screenshot shows the 'Online Case Filing System' interface. On the left, there is a sidebar with a user profile for 'Asad' (zafar007iqbal007@gmail.com) and navigation links for 'Dashboard', 'Mark', and 'Judges'. The main content area is titled 'Judges' and displays three profiles in cards: 'Asad Khan' (District & Sessions Judge), 'hamza Malik' (Additional District & Sessions Judge), and 'Yasir Mehmood' (Senior Civil Judge). Each card includes a small circular profile picture and the judge's name and designation.

Figure 5.1.36 All Registered Judges

5.1.37 D&SJ can edit profile:

From here, D&SJ will edit the profile.



The screenshot shows the 'Online Case Filing System' interface. On the left, there is a sidebar with a user profile for 'Asad' (zafar007iqbal007@gmail.com) and navigation links for 'Profiles', 'Dashboard', 'Mark', and 'Judges'. The main content area shows a profile card for 'Asad Khan' (District & Sessions Judge). To the right, there is a 'Profile Settings' form with fields for First Name (Asad), Last Name (Khan), Phone (+92 (312) 528-85-82), CNIC (37101-3621532-1), Email (zafar007iqbal007@gmail.com), and Profile Picture (with a 'Choose File' button and 'No file chosen' message). A 'SUBMIT' button is at the bottom of the form.

Figure 5.1.37 D&SJ can edit profile

5.1.38 Sign-Out of D&SJ:

By clicking on this button, D&SJ will be signed out.

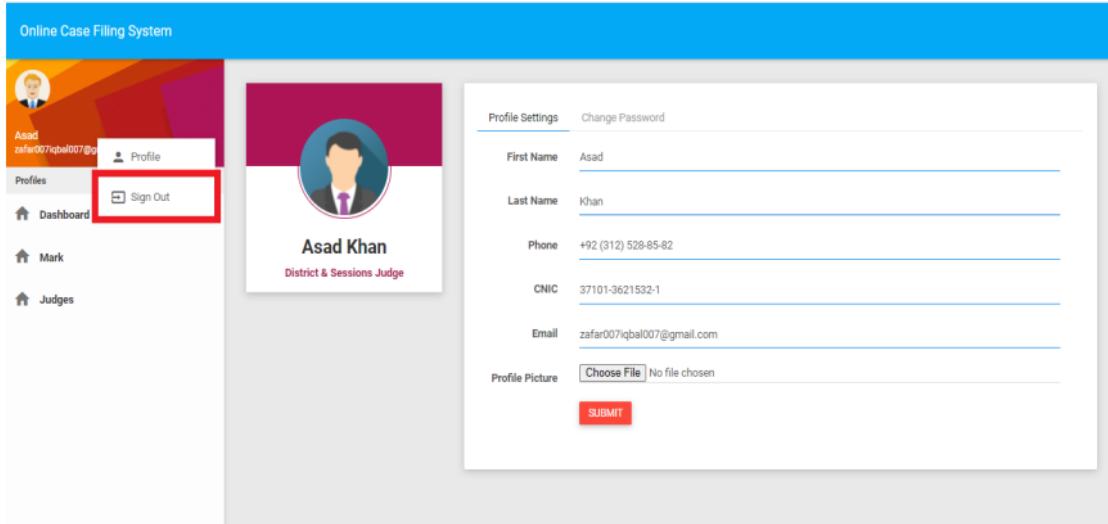


Figure 5.1.38 Sign-Out of D&SJ

5.1.39 Dashboard of Sub-Ordinate judges of D&SJ:

This is the dashboard of one of the sub-ordinate judge of D&SJ and from here, the judge can view dashboard, add proceedings etc.

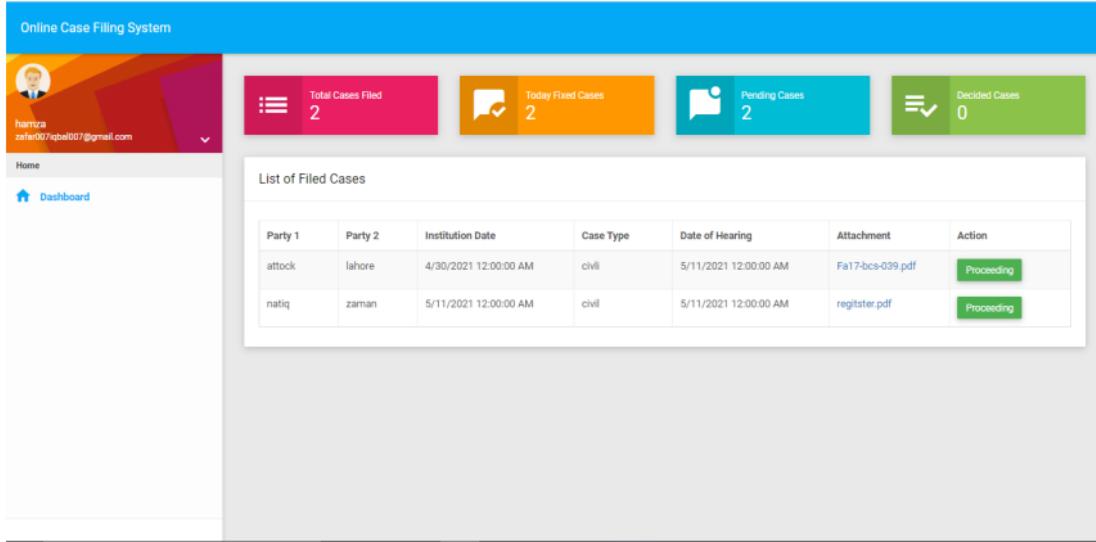


Figure 5.1.39 Dashboard of Sub-Ordinate judges of D&SJ

5.1.40 Adding Hearing Date:

From here, the case hearing judge will add the hearing date of the case.

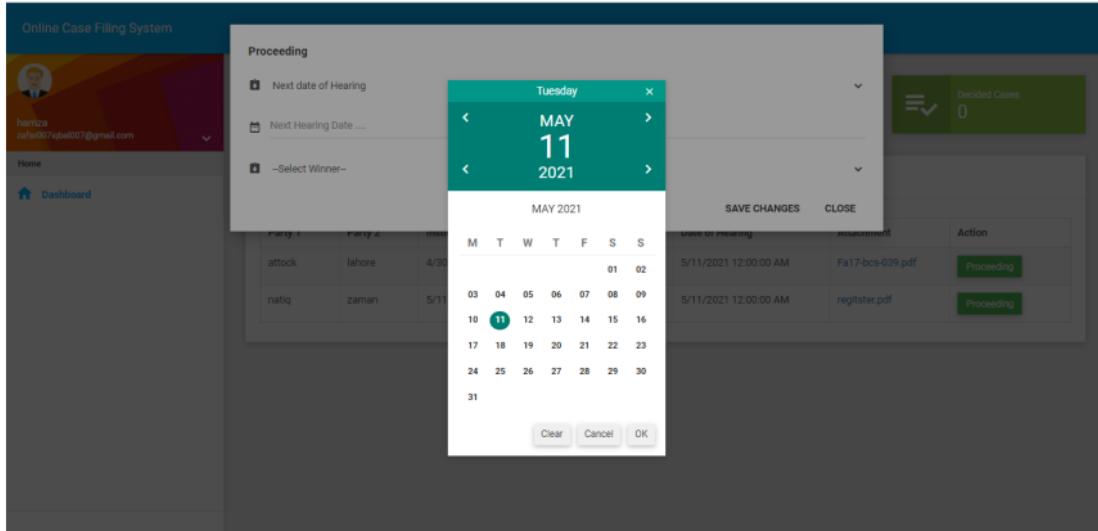


Figure 5.1.40 Adding Hearing Date

5.1.41 Adding Winner of the Case:

If the case hearing judge want to decide the case and want to add the winner, then the judge will add the winner from here.

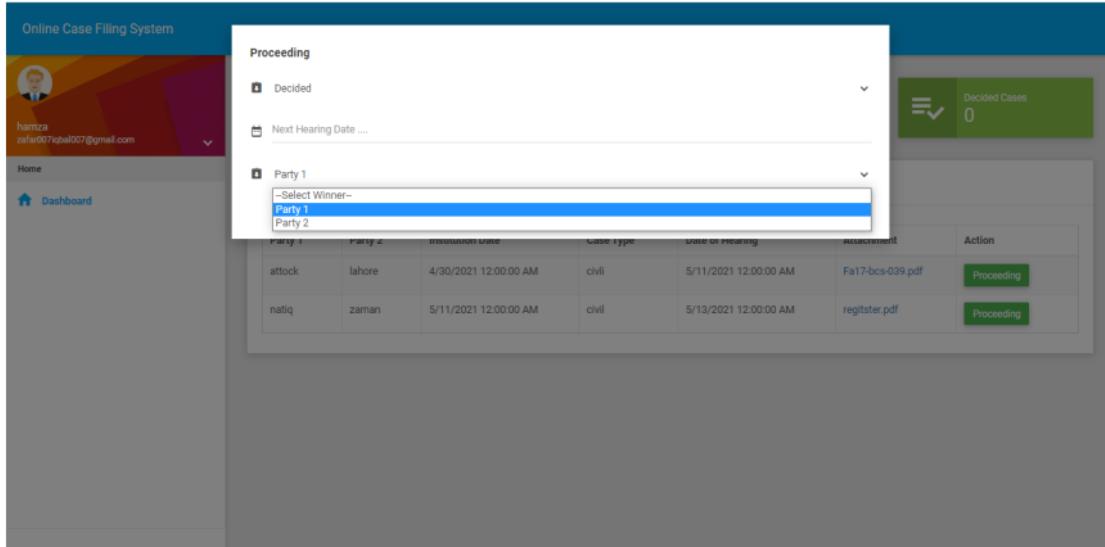


Figure 5.1.41 Adding Winner of the Case

5.1.42 Status changed from “Proceedings” to “Decided”:

When the case hearing judge will add the winner of the case, then the status of case will be change from “Proceedings” to “Decided”.

The screenshot shows the 'Online Case Filing System' dashboard. At the top, there are four cards: 'Total Cases Filed' (2), 'Today Fixed Cases' (1), 'Pending Cases' (1), and 'Decided Cases' (1). Below these is a table titled 'List of Filed Cases' with two rows of data. The second row, which corresponds to the case in question, has a green 'Proceeding' button in the 'Action' column. This button is highlighted with a red border. The 'Decided' button in the same row is also highlighted with a red border. The table columns are: Party 1, Party 2, Institution Date, Case Type, Date of Hearing, Attachment, and Action.

Party 1	Party 2	Institution Date	Case Type	Date of Hearing	Attachment	Action
attok	lahore	4/30/2021 12:00:00 AM	civil	5/11/2021 12:00:00 AM	Fa17-bcs-039.pdf	Proceeding
natiq	zaman	5/11/2021 12:00:00 AM	civil	5/13/2021 12:00:00 AM	register.pdf	Decided

Figure 5.1.42 Status change from “Proceedings” to “Decided”

5.1.43 Sub-Ordinate judges of D&SJ can edit the profile:

From here the sub-ordinate judges can edit their profile.

The screenshot shows the 'Online Case Filing System' profile editing interface. On the left, there's a sidebar with 'Profiles' and 'Dashboard'. The main area displays a profile card for 'hamza Malik' (Additional District & Sessions Judge). To the right is a form titled 'Profile Settings' with fields for First Name (hamza), Last Name (Malik), Phone (+92 (312) 528-85-82), CNIC (37116-2572585-5), Email (zafer007@bal007@gmail.com), and Profile Picture (choose file). A 'SUBMIT' button is at the bottom. The 'Change Password' link is visible above the 'SUBMIT' button.

Figure 5.1.43 Sub-Ordinate judges of D&SJ can edit the profile

5.1.44 Sign-Out of a Sub-Ordinate Judge:

By clicking on this button, the sub-ordinate judge will be signed out.

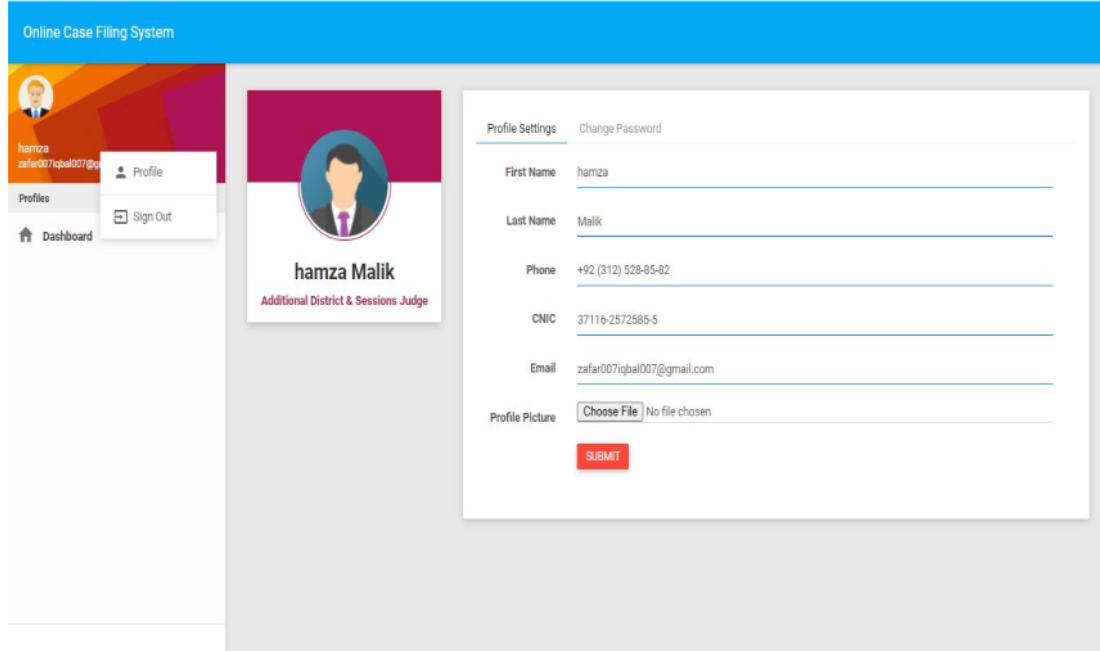


Figure 5.1.44 Sign-Out of a Sub-Ordinate Judge

Chapter No 6

Testing and Evaluation

² **6.1 Unit Testing:**

It is a type of software testing where individual units or components of a software are tested. The purpose is to validate that each unit of the software code performs as expected. Unit Testing is done during the development (coding phase) of an application by the developers. Unit Tests isolate a section of code and verify its correctness. A unit may be an individual function, method, procedure, module, or object.

Unit Testing 6.1.1: Registration and log-in of litigants.

Testing Objective: To ensure the correct working of litigant's log-in and sign-up from all perspectives.

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on Sign-Up With empty fields	It will Highlight as “This field is required”	Successfully Highlighted as “This field is required”	P
2	Enter the email without “@gmail.com/@yahoo.com”	It will Highlight as ”please enter valid email address”	Successfully Highlighted as ”please enter valid email address”	p
3	Try to sign up without choosing the role as litigant.	It will highlight as “this field is required”	Successfully Highlighted as “this field is required”	P
4	Entering password with less than 6 or more than 20 digits	It will Highlight as “Invalid Password! Minimum 6 Max 20 characters, at least 1 Small Alphabet, 1 Capital	Successfully Highlighted as “Invalid Password! Minimum 6 Max 20 characters, at least 1 Small Alphabet, 1 Capital	P

		Alphabet, 1 Number and 1 Special Character “	Alphabet, 1 Number and 1 Special Character “	
5	Entering wrong password in password confirmation	It will Highlight as “password and password must match”	Successfully Highlighted as “password and password must match”	P
6	Click on “you already have a membership”	Log-in page will open	Log-in successfully page opened	P
7	Click on the Sign in button without entering the email and password	It will Highlight as “This field is required”	Successfully Highlighted as “This field is required”	P
8	Entering wrong username or password	It will Highlighted as “incorrect password or username”	Successfully Highlighted as “incorrect password or username”	P
9	Entering correct username and password of the litigant	Log-in	Successfully logged-in	P
10	Click on “Register Now	Sign-up page will open	Successfully opened the sign up page	P

Table 6.1.1 Registration and log-in of litigants

Unit Testing 6.1.2: Registration and log-in of Lawyers.

Testing Objective: To test the correct working of lawyers' log-in and sign-up

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on Sign-Up With empty fields	It will highlight as “This field is required”	Successfully Highlighted as “This field is required”	P
2	Enter the email without “@gmail.com/@yahoo.com”	It will Highlight as “please enter valid email address”	Successfully Highlighted as “please enter valid email address”	p
3	Try to sign up without choosing the role as lawyer	It will Highlight as “this field is required”	Successfully Highlighted as “this field is required”	P
4	Entering password with less than 6 or more than 20 digits	It will Highlight as “Invalid Password! Minimum 6 Max 20 characters, at least 1 Small Alphabet, 1 Capital Alphabet, 1 Number and 1 Special Character “	Successfully Highlighted as “Invalid Password! Minimum 6 Max 20 characters, at least 1 Small Alphabet, 1 Capital Alphabet, 1 Number and 1 Special Character “	P
5	Entering wrong password in password confirmation	It will Highlight as “password and password must match”	Successfully Highlighted as “password and password must match”	P

6	Click on “you already have a membership”	Log-in will open	Successfully opened log-in page	P
7	Click on the Sign in button without entering the email and password	It will highlight as “This field is required”	Successfully Highlighted as “This field is required”	P
8	Entering wrong username or password	It will highlight as “incorrect password or username”	Successfully Highlighted as “incorrect password or username”	P
9	Entering correct username and password of the lawyer	Log-in	Successfully logged-in	P
10	Click on “Register Now	Sign-up page will open	Successfully opened the sign-up page	P

Table 6.1.2 Registration and log-in of lawyers

Unit Testing 6.1.3: Registration and log-in of judges.

Testing Objective: Here we have tested the working of Judge's log-in and sign-up

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on Sign-Up With empty fields	It will highlight as “This field is required”	Successfully highlight as “This field is required”	P

2	Enter the email without “@gmail.com/@yahoo.com”	It will highlight as “please enter valid email address”	Successfully highlighted as “please enter valid email address”	P
3	Try to sign up without choosing role as judge	It will highlight as “this field is required”	Successfully highlighted as “this field is required”	P
4	Entering password with less than 6 or more than 20 digits	It will highlight as “Invalid Password! Minimum 6 Max 20 characters, at least 1 Small Alphabet, 1 Capital Alphabet, 1 Number and 1 Special Character “	Successfully highlighted as “Invalid Password! Minimum 6 Max 20 characters, at least 1 Small Alphabet, 1 Capital Alphabet, 1 Number and 1 Special Character “	P
5	Entering wrong password in password confirmation	It will Highlight as “password and password must match”	Successfully Highlighted as “password and password must match”	P
6	Click on “you already have a membership”	Log in page will open	Log in page opened successfully	P
7	Click on the Sign in button without entering the email and password	It will Highlight as “This field is required”	Successfully highlighted as “This field is required”	P

8	Entering wrong username or password	It will Highlight as “incorrect password or username”	Successfully highlighted as “incorrect password or username”	P
9	Entering correct username and password of the judge	Log-in	Successfully logged-in	P
10	Click on “Register Now”	Sign-up page will open	Successfully opened the sign up page	P

Table 6.1.3 Registration and log-in of judges

Unit Testing 6.1.4: Log-In of Admin

Testing Objective: To ensure the correct working of Admin's log-in.

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on the Sign in button without entering the email and password	It will highlight as “This field is required”	Successfully highlighted as “This field is required”	P
2	Entering wrong username or password	It will highlight as “incorrect password or username”	Successfully highlighted as “incorrect password or username”	P
3	Entering correct Admin's username and password	Log-in	Successfully logged-in	P

Table 6.1.4 Log-In of admin

6.2 Functional testing:

It is a type of software testing that validates the software system against the functional requirements/specifications. The purpose of Functional tests is to test each function of the application, by providing appropriate input, verifying the output against the Functional requirements.

So in my system the elements for functional testing are as follows:

1. Case Filing
- 2 Testing the panel of litigants
3. Testing the lawyer's panel
4. Testing the judges panel
5. Testing the Admin's panel
6. Case transferring process
7. Email Notification
8. Report Generation
9. Lawyer's recommendation

Functional Testing 6.2.1: Case filing

Testing Objective: To check the working of case filing process.

Sr. No	Condition	Expected result	Actual result	Final result
1	Click on "Next" With empty field/fields in Account Information section	It will Highlight as "This field is required"	Successfully highlighted as "This field is required"	P
2	Filling all the fields and then click on "Next" in account	It will go to the "profile Information" section	Successfully goes to the "profile Information" section	p

	information section			
3	Click on “Next” With empty field/fields in profile Information section	It will Highlight as “This field is required”	Highlighted as “This field is required”	P
4	Entering age less than 18	It will Highlight as “please enter a value greater than or equal to 18”	Highlighted as “please enter a value greater than or equal to 18”	P
5	Filling all the fields and then click on “Next” in profile information section	It will go to the “upload case file” section	Successfully goes to the “upload case file” section	P
6	Click on “Previous”	Previous section will open	Previous section open successfully	P
7	Click on finish without uploading case file	“upload case file” button will become red	“upload case file” button becomes red	P
8	Click on “Choose File”	Console for file choosing will open	Console for file choosing opens successfully	P
9	Entering all the information and then uploading case file	Case will file	Case filed successfully	P

Table 6.2.1 Case filing

Functional Testing 6.2.2: Testing the panel of litigants.

Testing Objective: To check that whether the panel of litigants is working correctly or not.

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on “File a Case”	Case filing section will open	Case filing section opened successfully	P
2	Click on any case file	Case file will download	Case file downloaded successfully	P
3	Click on “Profile”	Profile of the litigant will open	Profile of the litigant opened successfully	P
4	After editing in profile , click on submit	Profile submitted successfully	Profile submitted successfully	P`
5	Click on “Dashboard”	Dashboard Opens	Dashboard Opened successfully	P
6	Click on “Assign”	All lawyers will be available for choosing	All lawyers are successfully available for choosing	P
7	Click on “Hire”	Lawyer will be hired	Lawyer hired successfully	P
8	Clicking on “Sign Out”	Litigant will Sign out	Sign out successfully	P

Table 6.2.2: Testing the panel of litigants.

Functional Testing 6.2.3: Checking the lawyer's panel

Testing Objective: Checking the working of lawyer's panel

Sr. No	Condition	Expected Result	Actual Results	Final Results
2	Click on "Dashboard"	Dashboard will Open	Dashboard Opens successfully	P
3	Click on any case file	Case file will download	Case file downloaded successfully	P
4	Click on "Profile"	Profile of the litigant will open	Profile of the litigant open successfully	P
5	After editing in profile , click on submit	Profile will submit	Profile submitted successfully	P
6	Click on "Accept/Reject"	Case will accept/reject	Case accepted/rejected successfully	P
7	Clicking on "Sign Out"	Lawyer will Sign out	Sign out successfully	P

Table 6.2.3: Checking the lawyer's panel

Functional Testing 6.2.4: Testing the judge's panel

Testing Objective: To test the Judge's panel that whether it is working correctly or not

Sr. No.	Condition	Expected Result	Actual Results	Final Results
1	Click on "Dashboard"	Dashboard will Opens	Dashboard Opens successfully	P
2	Click on "Proceedings"	It will open a new section in which judge will	Successfully open a new section in which	p

		add Hearing Date and winner	judge will add Hearing Date and winner	
3	Click on “Hearing date”	System will allow us to add the hearing date	System is successfully allowing us to add the hearing date	P
4	Click on “decided”	System will allow us to choose the winner	System is successfully allowing us to choose the winner	P
5	Click on “Mark”	Cases that are available for mark , will be visible	Cases that are available for mark are successfully visible	P
6	Click on “Mark” in mark	Available judges for mark will be visible	Available judges for mark are successfully visible	P
7	Click on “Marked”	Cases will be successfully marked to the concerned judges	Cases are successfully marked to the concerned judges	P
8	Click on “Judges”	All available judges will be available	All the judges are available successfully	P
9	Click on any case file	Case file will be downloaded successfully	Case file downloaded successfully	P
10	Click on “Profile”	Profile of the litigant will be open	Profile of the litigant open successfully	P

11	After editing in profile , click on submit	Profile will edit	Profile edited successfully	P
12	Clicking on “Sign Out”	Judge will Sign Out	Judge Signed Out successfully	P

Table 6.2.4: Testing the judge's panel

Functional Testing 6.2.5: Checking the working of Admin's panel

Testing Objective: Here we have checking the working of Admin's panel from all perspectives.

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on “All users”	List of all users will be open	List of all users opened successfully	P
2	Click on “User Manager”	List of all pending users will open	List of all pending users opened successfully	P
3	Click on “Reject” in Users Manager	A new dialog box will open with confirmation message	A new dialog box opened successfully with confirmation message	P
4	Click on “Confirm” in Users Manager	A new dialog box will open with confirmation message	A new dialog box opened successfully with confirmation message	P
5	Click on “Rejected Users”	List of all rejected users will open	List of all rejected users opened successfully	P

6	Click on “Active Users”	List of all approved users will open	List of all approved users opened successfully	P
7	Click on “Report”	A new Page for downloading reports will open	Successfully open a new page for downloading reports	P
8	Click on “Excel, or Pdf” in “All Users”, “Users Manager”, “Rejected User” or “Active User” section	Lists will be downloaded in excel or pdf form	Lists in form of excel or pdf downloaded successfully	P
9	Click on “Copy or Print” in “All Users”, “Users Manager”, “Rejected User” or “Active User” section	Lists will be copied and will available for the print as well	List copied successfully and Lists also available successfully for the print as well	P
10	Click on “Profile”	Profile of the Admin will open	Profile of the Admin opened successfully	P
11	After editing in profile , click on submit	Profile will edit	Profile edited successfully	P
12	Click on “Sign Out”	Admin will Sign Out	Admin Signed Out successfully	P

Table 6.2.5: Checking the working of Admin’s panel

Functional Testing 6.2.6: Working of Case Transferring process.

Testing Objective: In this testing, we are ensuring the perfect working of case transferring process for the judges.

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on “Mark”	All available judges will visible for mark	All available judges for mark are successfully visible	P
2	District and session judge (D&SJ) marks the case to himself	Case will transfer to the D&SJ	Case successfully transferred to D&SJ	P
3	D&SJ marks the case to Additional and session judge (AD&SJ)	Case will transfer to the AD&SJ	Case successfully transferred to AD&SJ	P
4	D&SJ marks the case to Senior Civil Judge (SCJ)	Case will transfer to the SCJ	Case successfully transferred to SCJ	P
5	D&SJ marks the case to Civil Judge (CJ)	Case will transfer to the CJ	Case successfully transferred to CJ	P
6	After choosing the judge , click on “Marked”	Confirmation message for case transfer will pop up	Confirmation message for case transfer pop up successfully	P
7	Click on “Yes I confirm that”	Case will transfer to the concerned judge	Case transferred successful to the concerned judge	P

Table 6.2.6: Working of Case Transferring process.

Functional Testing 6.2.7: Checking out the working of email notification

Testing Objective: To ensure the perfect working.

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Email notification is received by the judge, when D&SJ marks the case.	When D&SJ will mark the case, that judge will get email notification	Judge is successfully getting the email notification after the case marked by the D&SJ	P
2	Email notification is received by the litigant, when D&SJ marks the case.	When D&SJ will mark the case, that litigant will get email notification.	Litigant is successfully getting the email notification after the case marked by the D&SJ	P

6.2.7: Checking out the working of email notification

Functional Testing 6.2.8: Testing the working of report generation and downloading.

Testing Objective: To ensure the perfect working of report generation and its downloading.

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on "Please select report type"	List of all report types will open	Successfully opened the list of all report types	P
2	Click on "Please select month"	List of all the months will open	Successfully opened the list of all months	P
3	If we select the report type but do not select the month and then	Nothing will happen	Nothing is happening	P

	click on “Search”			
4	Perfectly selecting the report type and month and then click on “Search”	List of cases will open	Successfully opened the list of cases	P
8	Click on “Excel, or Pdf”	List will be downloaded in excel or pdf form	Lists in form of excel or pdf downloaded successfully	P
9	Click on “Copy or Print”	Lists will be copied and will available for the print as well	List copied successfully and Lists also available successfully for the print	P

Table 6.2.8: Testing the working of report generation and downloading

Functional Testing 6.2.9: Checking out the working of Lawyer's hiring system

Testing Objective: In this testing, we are ensuring the perfect working of Lawyer's hiring system

Sr. No	Condition	Expected Result	Actual Results	Final Results
1	Click on “Please select fee”	List of all available fees will open	Successfully opened the list of all available fees	P
2	Click on “Please select Case Type”	List of all Case types will open	List of all case types opened successfully	P
3	Click on “Please select rating”	List of all available ratings will open	Successfully opened a list of all available ratings`	P

4	If we do not select one or more than one from Fees/Case-type/ratings and then click on “Find”	System will find any lawyer.	System did not find any lawyer	P
5	Perfectly selecting the Fees/Case-Type/Rating and then click on “Find”	List of lawyers will be visible.	List of lawyers visible successfully.	P
6	Click on “Hire”	A confirmation box will open	Confirmation box opened Successfully	P
7	Click on “No” in confirmation box	Lawyer will not hire	Lawyer not hired	P
8	Click on “Yes, I confirm that ” in confirmation box	Lawyer will hire	Lawyer hired successfully	P

Table 6.2.9: Checking out the working of Lawyer's hiring system

6.3 Integration Testing:

In integration testing, each module is combined and tested in group instead of testing it independently, we combine the module and check their impact on each other.¹¹ The purpose of this level of testing is to expose defects in the interaction between these software modules when they are integrated

Sr. No.	Condition	Expected Result	Actual Results	Final Results
1	Register the litigant after clicking the	System will register the litigant after clicking the “Sign Up”	System successfully registered the litigant and the Admin	P

	<p>“Sign Up” button</p> <p>And</p> <p>the Admin accepts or rejects the Sign up</p>	button And the Admin will accept/reject the Sign up	successfully accepted/rejected the sign up	
2	<p>Admin accepts the Sign up request</p> <p>And</p> <p>the litigant log in to his/her account</p>	Admin will accept the Sign up request and then the Litigant will log in to the account.	Admin successfully accepted the Sign up request and the Litigant successfully log in to his/her account	P
3	<p>Litigant file the Case</p> <p>And</p> <p>Hire the lawyer.</p>	Litigant will file the case and will hire the lawyer	Litigant successfully file the Case and successfully hires the lawyer.	P
4	<p>Lawyer accepts the of litigant</p> <p>And</p> <p>the Case goes to the District and Session Judge(D&SJ)</p>	If the lawyer will accept the request of litigant , the Case will go to the (D&SJ)	Case goes successfully to the D&SJ , after the lawyer accepted the request of litigant.	P
5	<p>D&SJ keeps the Case</p> <p>Or</p> <p>Mark it to one of the subordinate judge (i.e. AD&SJ/SCJ/CJ)</p>	D&SJ will keep the case or will transfer the Case to the subordinate judge (i.e. AD&SJ/SCJ/CJ)	Case successfully kept by the D&SJ or successfully transfer to the other judge	P

6	Case hearing judge adds the date of the hearing of the case Or Adds the decision of the case	Case hearing judge will add the date of the hearing of the case Or will Add the decision of the case	Date of Case hearing added successfully by the judge Or the decision of the case also added successfully	P
7	Admin generates the report Or Litigant sees the hearing date/decision	Admin will be able to generate the report Or Litigant will see the hearing date/decision	Admin generated the report successfully Or Date of case hearing/decision is successfully visible to the Litigant	P
8	Email notification received by litigant And the judge.	Case hearing judge and litigant will receive the email after the D&SJ marks the case.	Email is received successfully by litigant and case hearing judge .	P

Table 6.3 Integration testing

Chapter No. 7

Conclusion and Future Work

Conclusion:

Due to the fast changes in the era of computerized technology we need to convert the manual systems. Many cases are registered on daily basis but there is no such system through which a user can file the cases online. So in order to solve this problem, the web based system is developed named "Online Case Filing System" in which the users can file the cases at their comfort zones. Not only filing the case, the system is doing more than this like generating the progress reports of the session court, hiring the lawyers, notifying the judges through emails about new cases, getting the case related information like the next date of hearing and decision of the case.

This system is solving another big problem of the people that is the hiring of a lawyer. There is no such platform in the current time through which we can hire a lawyer online and we know that manually hiring a lawyer is a difficult job. So in order to fulfil this gap we developed a mechanism through which the users can hire a lawyer with the facility of filing the cases online.

In daily life, the general problem is that when someone submits the documents in the court, sometimes those documents get lost/missed by the court intentionally or unintentionally, due to which the case could not be filed. So this project solves this problem and now there is no way that the case file gets lost/missed.

It also gives facility of getting the case related information online to the users. Through our "Online and the case filer will get the case related information online like the date of hearing, decision of the case.

Also the progress of the court can be checked by generating the report. For example, how many cases are filed/pending/decided/instituted/unmarked by selecting the month.

Future Work:

In the future this web based system can be expanded to the district level. Now this web based system is only applicable to only one session court of a city. In future all the session courts of a district can be covered and all the users from a district can file the cases online.

After expanding to the district level, we will have more number of lawyers for hiring and will be able to track the progress of all the courts of the district.

In future, this project can be made portable to the android based case filing system and thus the users will be able to file the case through an android App.

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