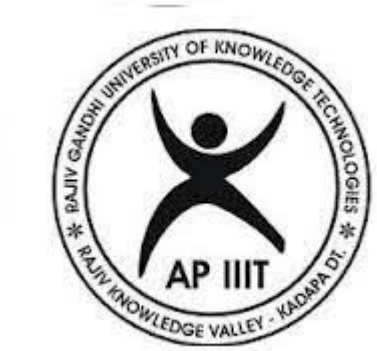
PROJECT REPORT

on

“E-COURT”

Department of Computer Science and Engineering



Rajiv Gandhi University of KnowledgTechnologies(RGUKT)
RK VALLEY

submitted by

D.Pavani-R171131

Under the Esteemed guidance of

Mr.Satynandaram N

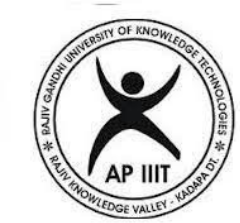
RGUKT RK Valley.

DECLARATION

We hereby declare that the report of the B.Tech Major Project Work entitled "**E-COURT**" which is being submitted to Rajiv Gandhi University of Knowledge Technologies, RK Valley, in partial fulfillment of the requirements for the award of Degree in Bachelor of Technology in Computer Science and Engineering, It is a bonafide report of the work carried out by us. The material contained in this report has not been submitted to any university or institution for award of any degree.

D.PAVANI – R171131

Dept. Of Computer Science and Engineering.



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

(A.P.Government Act 18 of 2008)
RGUKT, RK VALLEY
Department of Computer Science and Engineering

CERTIFICATE FOR PROJECT COMPLETION

This is certify that the project entitled "E-COURT" submitted by **D.PAVANI(R171131) ,** under our guidance and supervision for the partial fulfillment for the degree Bachelor of Technology in Computer Science and Engineering during the academic semester-2 2022-2023 at RGUKT, RK VALLEY.To the best of my knowledge, the results embodied in this dissertation work have not been submitted to any University or Institute for the award of any degree or diploma.

Project Internal Guide
Mr N.Satyanandaram
RGUKT, RK Valley

Head Of The Department
N.Satyanandaram
RGUKT, RK Valley

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ABSTRACT

E-Court case detail system is an online platform designed for lawyers and judges effeciently to manage the case details and reduce paper-based records. This system will enable advocates to have easy access to case details ,court proceeding records and case history . The main aim of the E-COURT project is to store the cases that are filed in the court and to maintain the records of that cases and generate PDF of cases.This project helps to keep tracking of the cases that are filed and the status of the cases.The e-court project provides effecient and time bound, transparent, affordable case details. It gives access to the case status information. This project is designed by using HTML,CSS,Angular JS as Front-end and the database is connected to the google firebase. The Google Firebase Realtime Databse is a cloud-hosted NoSQL database that lets you store and sync the between your users in realtime.Cloud Firestore anables you to store, sync and query app data at global scope.

The Advocate store the case details, case status ,Petitioner and advocate that are consulted, the acts and the history of case hearing, objections and additional information about the cases and all these information is stored in the google cloud firebase,whenever the advocate want the case details he can go to the firebase and search for the case details accordance to case type or registration name and etc, he can also use filter operation by name filter or date filter to get the case details in order.

2.INTRODUCTION

E-COURT is a web-based application handled by the single client and has form groups which is used to store the data and the form arrays that are used to store the repeated groups and we can modify the data in it whenever we want. The project was developed by using HTML,CSS and angular JS and it have onle one module i.e.,

- Admin/User

Admin/User Module:

Login: Users will be able to log in to the system using their credentials. Create and manage case details: Users will be able to create and manage case details, including case number, case title, parties involved, and case status.

Dashboard: It contains all the statistics that are included in the storing of case details.

court proceedings records: Users will be able to upload court proceedings records, including hearing dates, court orders, and other relevant documents.

View case history: Users will be able to view the case history, including previous case details and proceedings records.

Notifications: Users will receive notifications on the system when a new case is assigned them or when there is a new update on an existing case.

Reporting: The system will generate reports on case details court proceedings.

SCOPE:

E-Court case details system is designed to provide an online platform where users can access case-related information. The system will allow lawyers and judges to:

- Create and manage case details
- Upload court proceedings records
- View case history

- Send notifications to users
- Access the system from any location
- Ensure data security and privacy

2.2.Purpose:

E-Court case details system is an online platform designed for lawyers and judges to efficiently manage the case details and reduce paper-based records. The system will enable judges and lawyers to have easy access to case details, court proceedings records, and case history. The system will provide a secure and reliable environment for users to manage their case details seamlessly.

2.3.Product Vision:

Vision Statement:

The traditional court system is a time and paper-intensive process. All case details and records are maintained in files and documents, making it difficult for lawyers and judges to manage cases efficiently. The traditional process is not only difficult but also prone to errors, delays, and information loss. The electronic system will provide a better alternative to the traditional system.To overcome this problem we have been introduced the E-Court project that the case details are stored and used effeciently.

3.TECHNOLOGIES

- HTML
- CSS
- Angular JS
- Firebase

HTML:

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages

CSS:

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

Angular JS:

Angular JS is **a structural framework for dynamic web apps**. It lets you use HTML as your template language and lets you extend HTML's syntax to express your application's components clearly and succinctly. Angular JS's data binding and dependency injection eliminate much of the code you would otherwise have to write.

Angular JS lets you extend HTML vocabulary for your application. The resulting environment is extraordinarily expressive, readable, and quick to develop . Angular JS is a tool set for building the framework most suited to your application development. It is fully extensible and works well with other libraries. Every feature can be modified or replaced to suit your unique development workflow and feature needs.

Google Firebase:

Google Analytics for Firebase lets you export your mobile app data (iOS and Android) to BigQuery and, by matching on UserID, gives you a complete picture of app engagement across channels and devices.

4 SYSTEM REQUIREMENT SPECIFICATION

4.1 NON FUNCTIONAL REQUIREMENTS

4.1.1 SOFTWARE REQUIREMENTS

This web site requires the following software in Server, clients.

Server-side Requirements:

Server Operating System Ubuntu Linux, Microsoft Windows
Hosting: Google cloud
Web Server: Firebase

Client side Requirements:

All devices compatable.

4.1.2 HARDWARE REQUIREMENTS:

No hardware needed.

4.2 FUNCTIONAL REQUIREMENTS

4.2.1 PRODUCT REQUIREMENTS

This website is an online tour management system that provides the following features.

Admin:

Login with Google or OTP:

In this module the admin first have to log in to the firebase by using log in credentials or by gmail or using OTP.

Add Case:

Here the admin have to fill all the credentials that have included in this page like case Type and case filing number, CNR number and Registration number.

Case details:

These module contains all the case details like Case filing data and Registartion number and Registration date, case Type, Case filing number,and CNR number.

Case status:

Case status keeps tracking of case deatils.it includes the case First hearing date, Next hearing date, stage of case, location of the case filing like state and district of the case filing. It contains the petetioner and the respondant and also the advocate deatils that have been assigned.

Acts and History of Case Hearing:

In this module it contains the acts that have been included in the case and also includes the history of the case hearing.

Case list:

It conatins the list of cases that have been listed in accoradnce to month amd the year.

View Case Details:

In this module it conatins the view module which will siaplay the case details.it contains all the case details.

Generate pdf:

This module is used to generate the pdf format of the case details. By using the MPDF Library and Adobe the pdf is generated.

Search:

This search module uses to find the specific case details,search can be anything accordance to case details.

Filter:

Filter module is used to display the specific case details by applying filter operation.

4.2.2 PERFORMANCE REQUIREMENTS

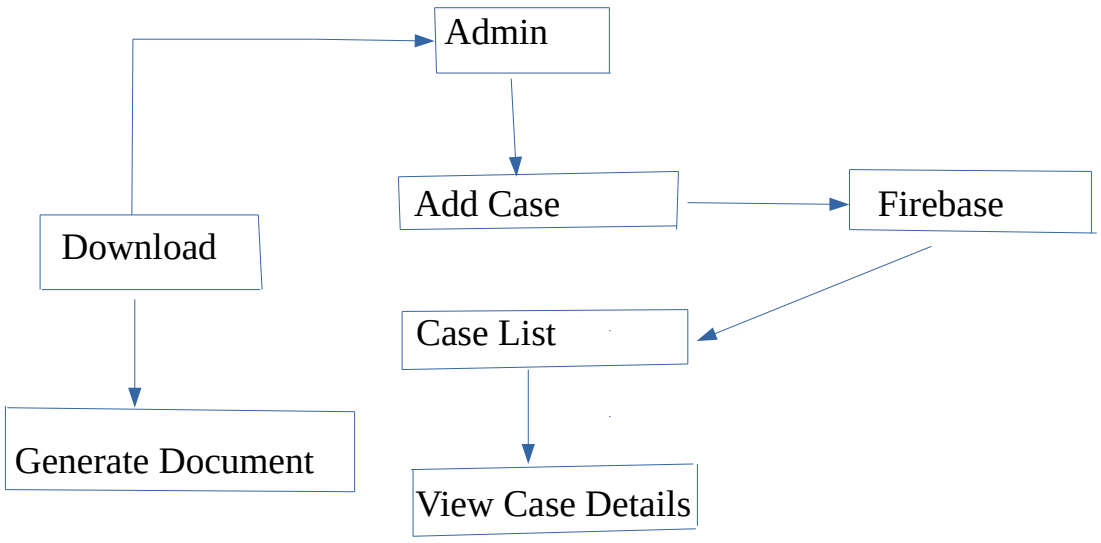
The following performance requirements should be maintained in the project.

- Each page in the site needs to load in a reasonable amount of time.
- Latest web techniques like Caching should be implemented to speed up the loading of dynamic pages. This will also improve the access facility as connections are freed faster.
- Every module should be accessed within the responsive time and it should be maintained properly.
- The advocate should access the pages according to case details that he have been required.
- The data should be stored precisely and effeciently so that the no third party syatems are able to access the data.
- The new updates shpould be automatically stored in the google firebase and it should provide the access to the data to advocate within the required responsive time.
- The google firebase should be automatically update to the new technologies that will increase or add up the new features which will improve the effeciency of data.
- The loading time of the dynamic pages should be effeciently increased.

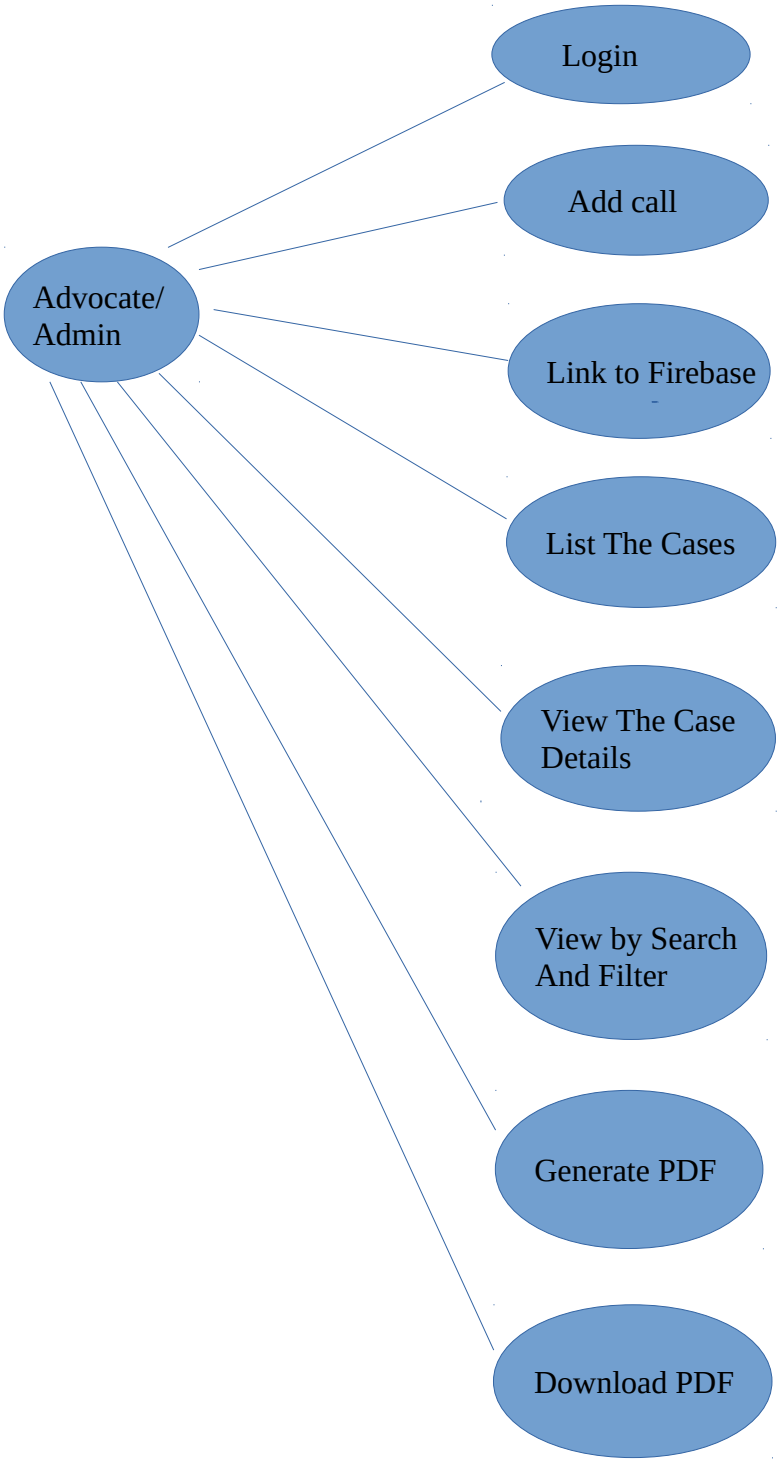
5.System Design

The E-COURT case details management system helps the advocates to reduce the paper work and store the case details according to the case type,case registration number,CNR number and so on. This means the advocate can access the case details at any cost by using serach and filter operation that are provided by the Angular JS.

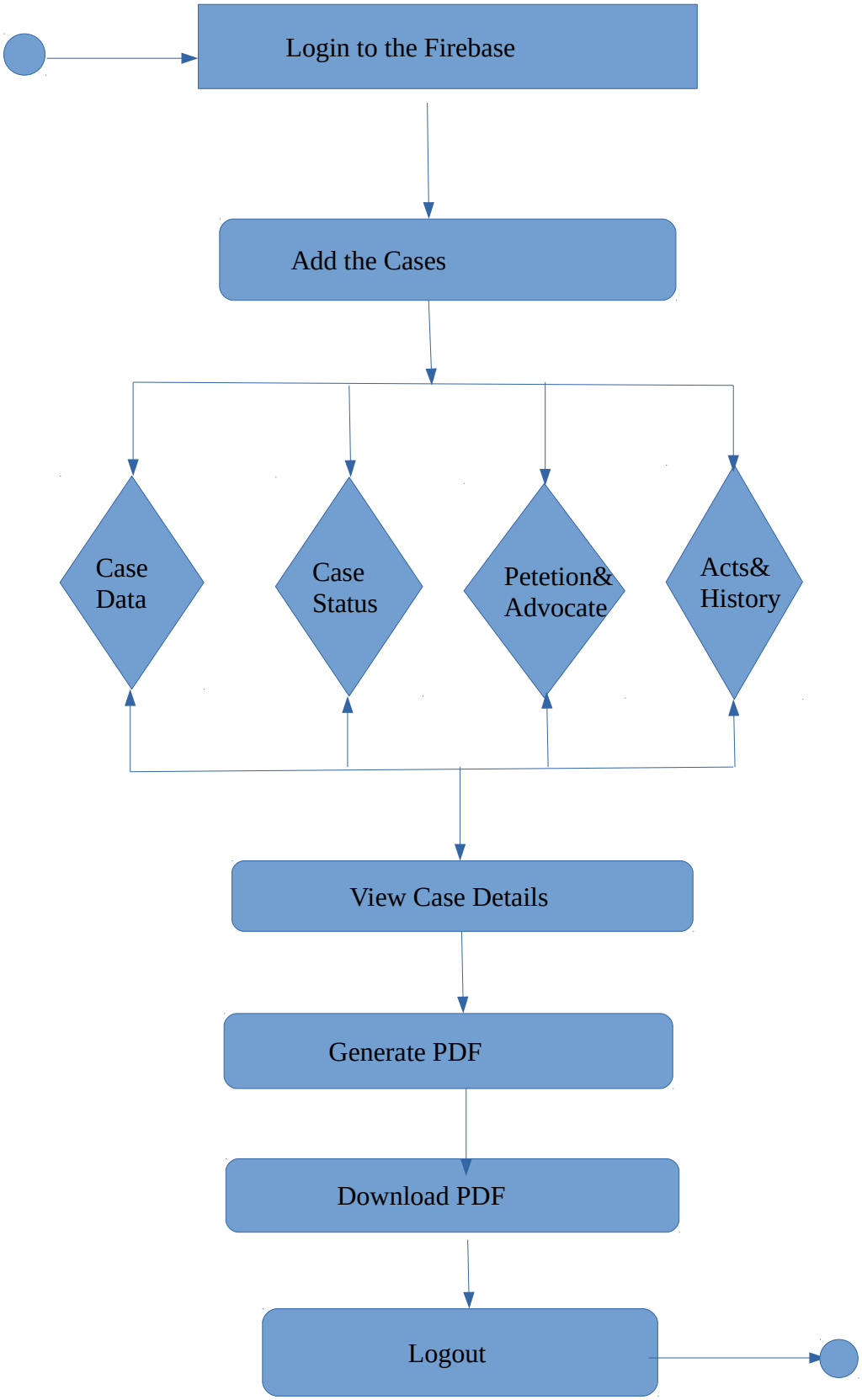
5.1.Context Diagrams



5.2 Use Case Diagrams



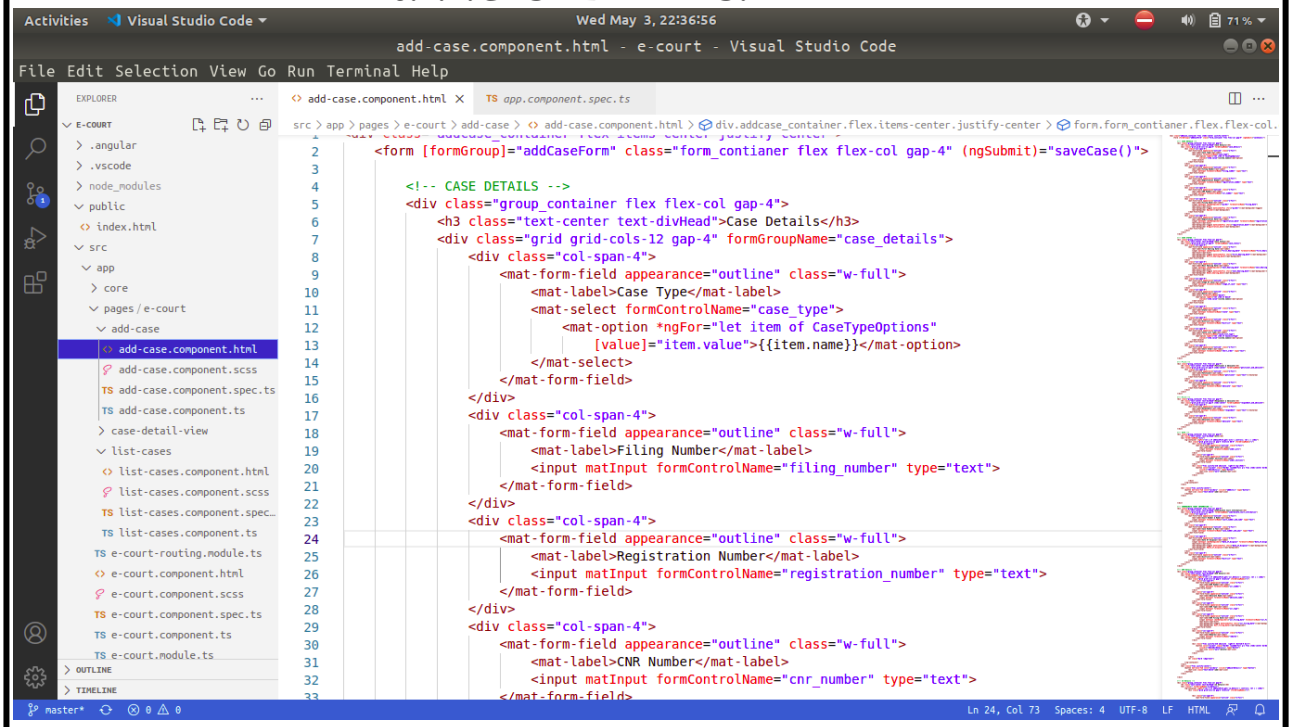
5.3 Activity Diagram



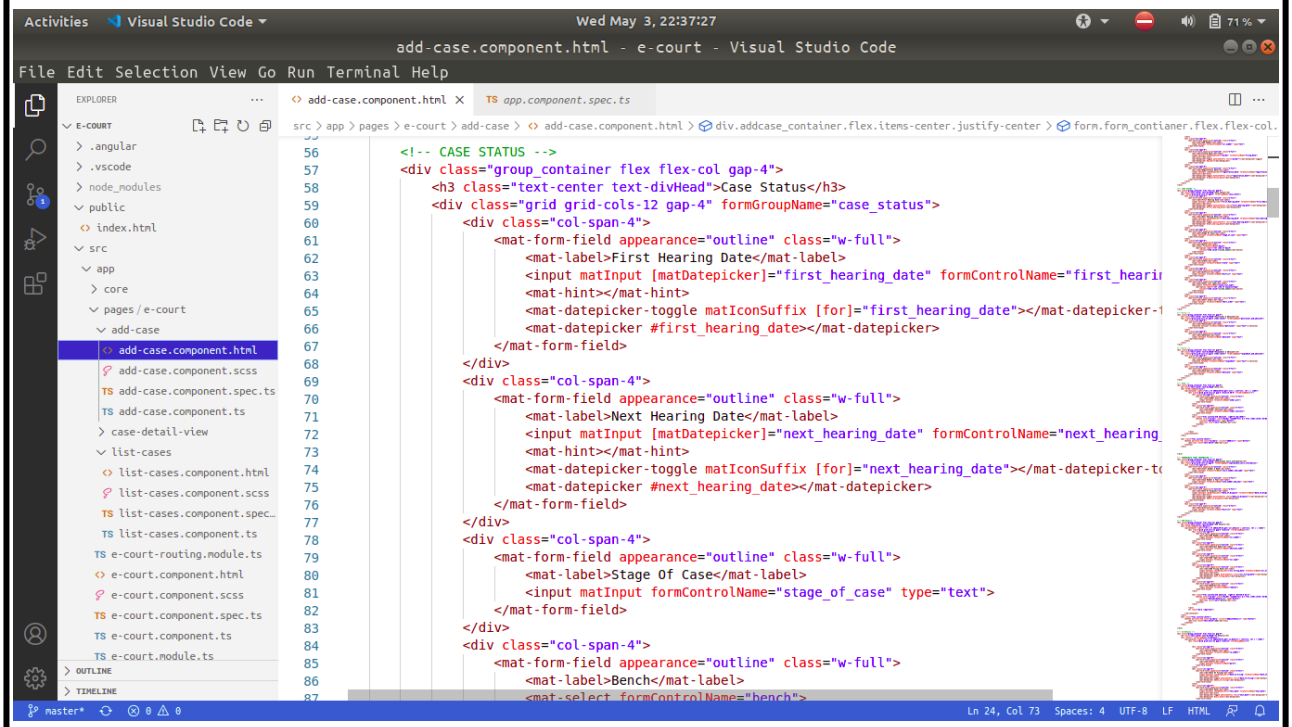
6.CODING

6.1-HTML Pages:

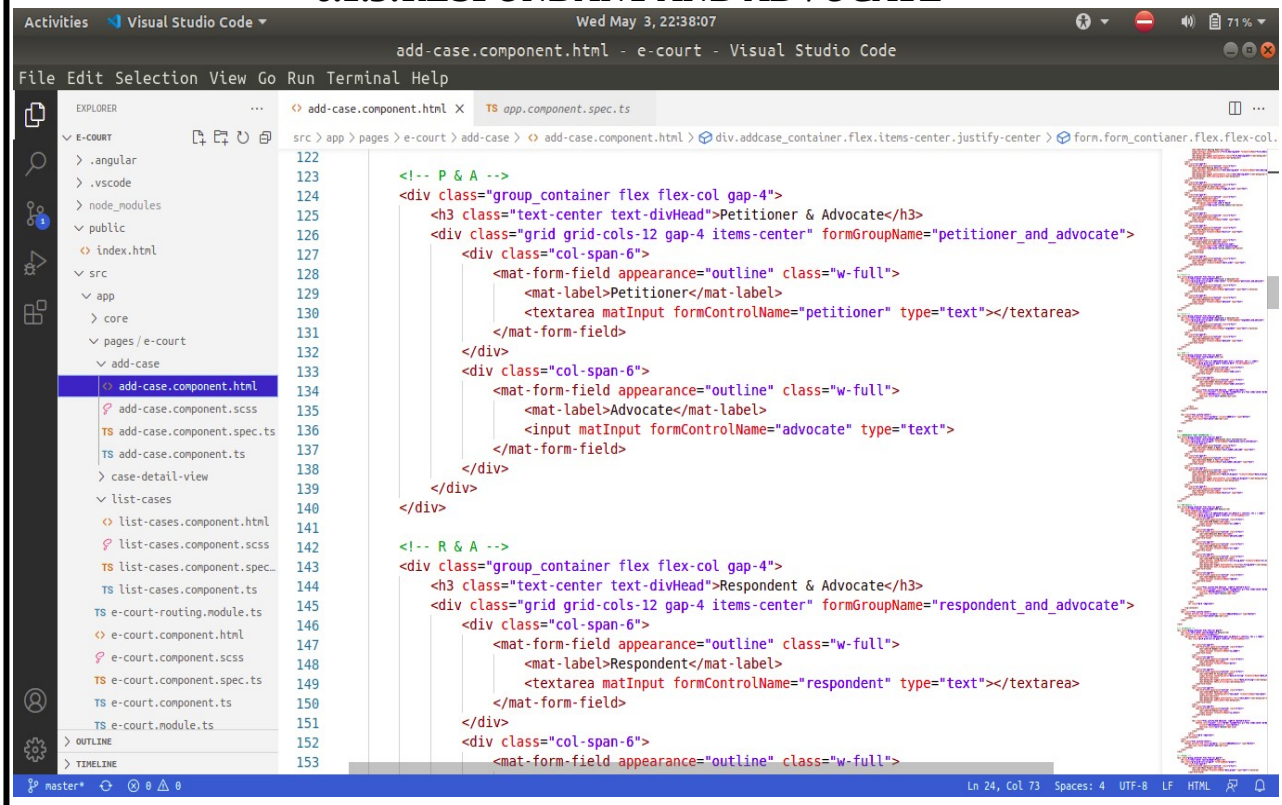
6.1.1:CASE DETAILS:



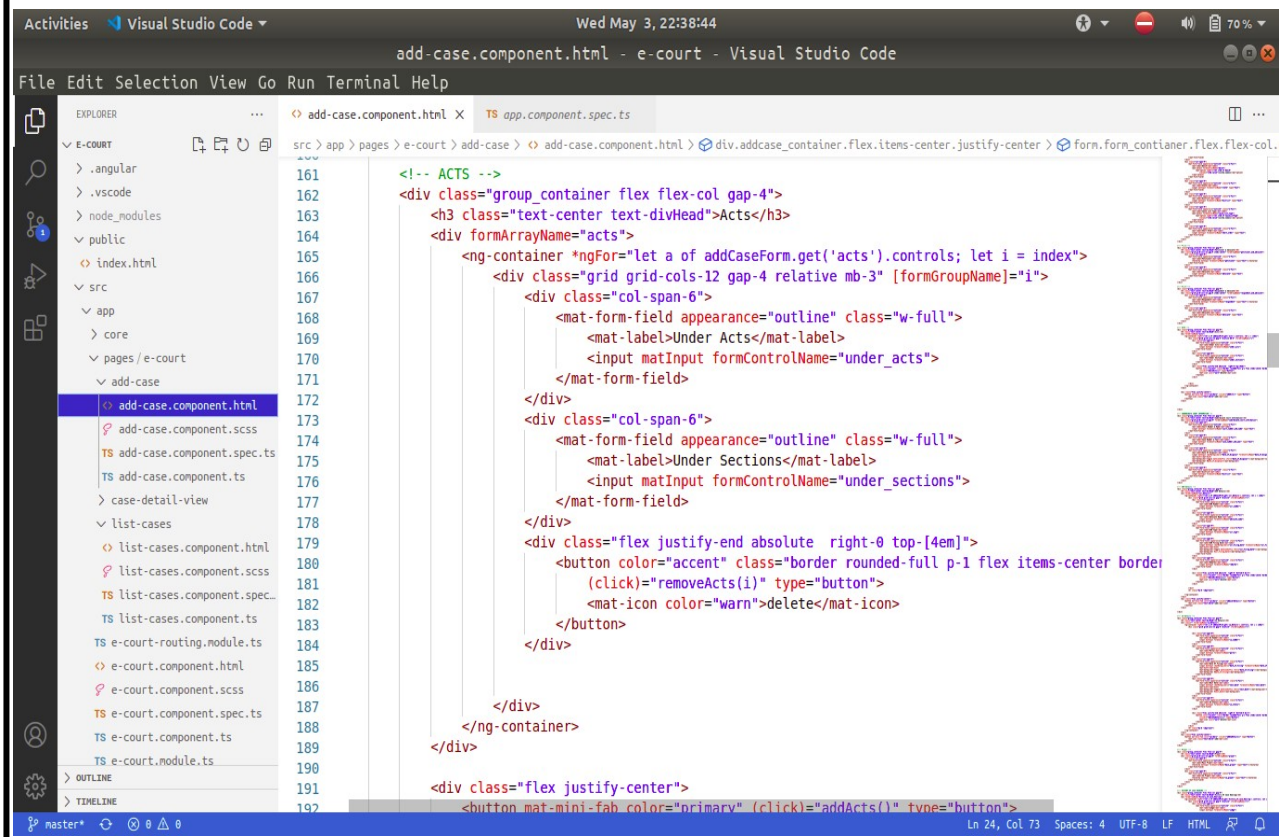
6.1.2:CASE STATUS



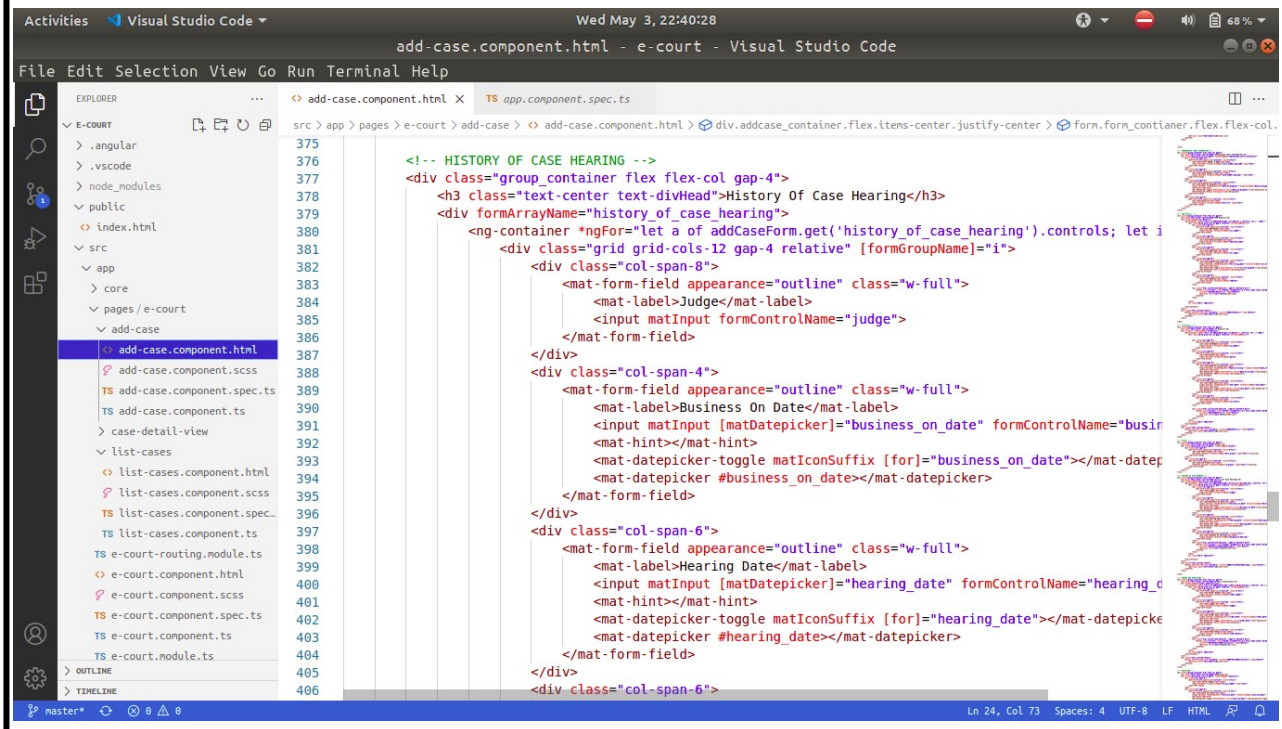
6.1.3:RESPONDANT AND ADVOCATE



6.1.4: ACTS

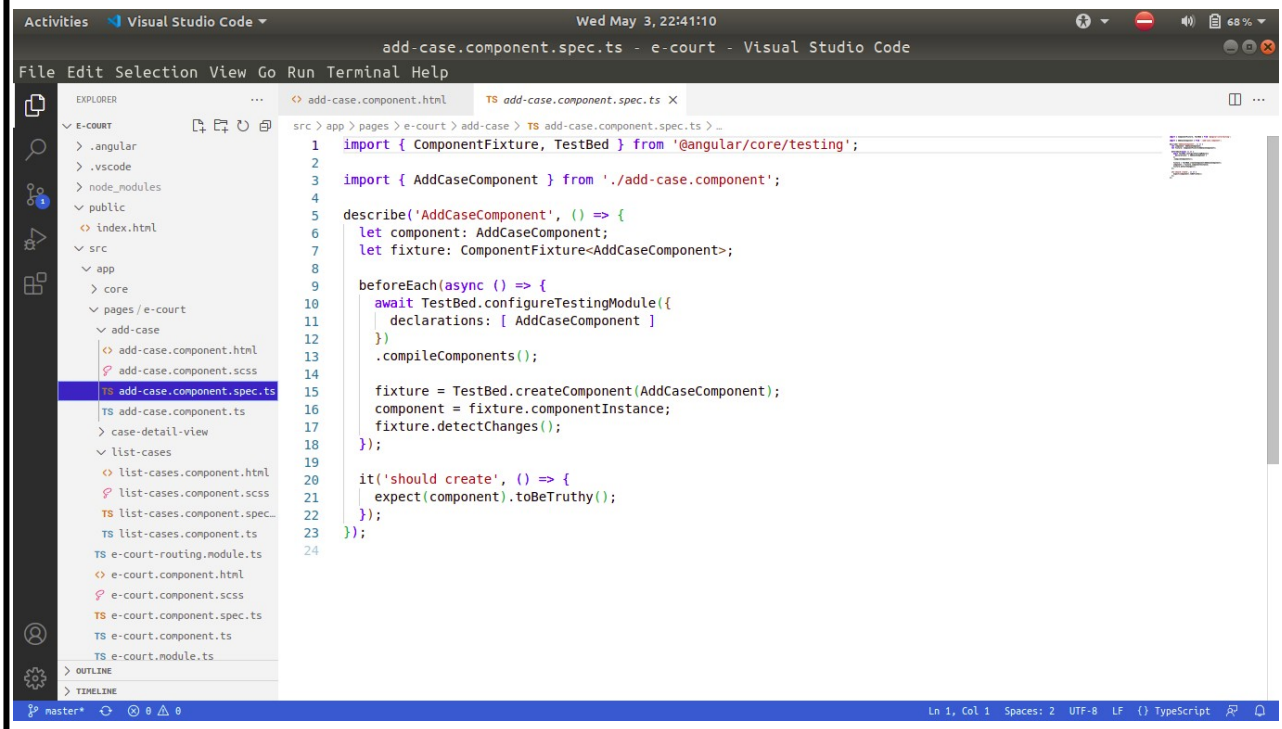


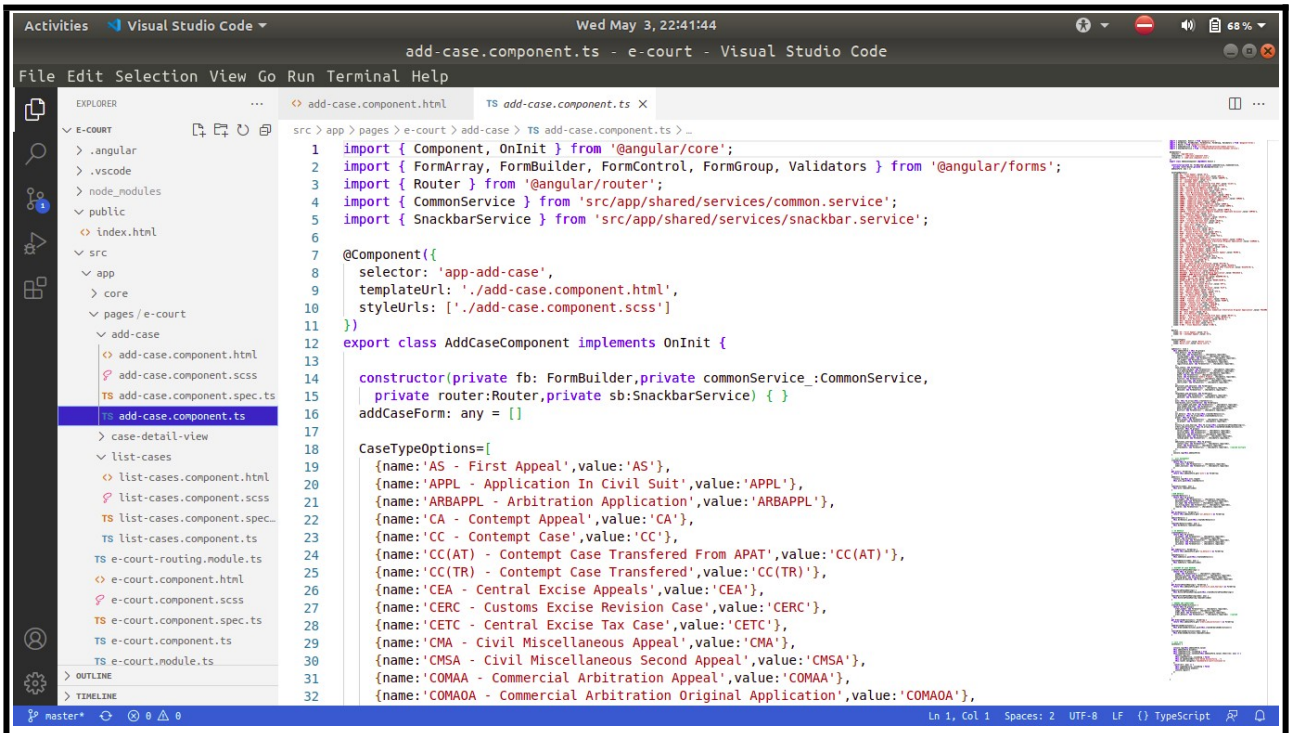
6.1.5:HISTORY OF CASE HEARING:



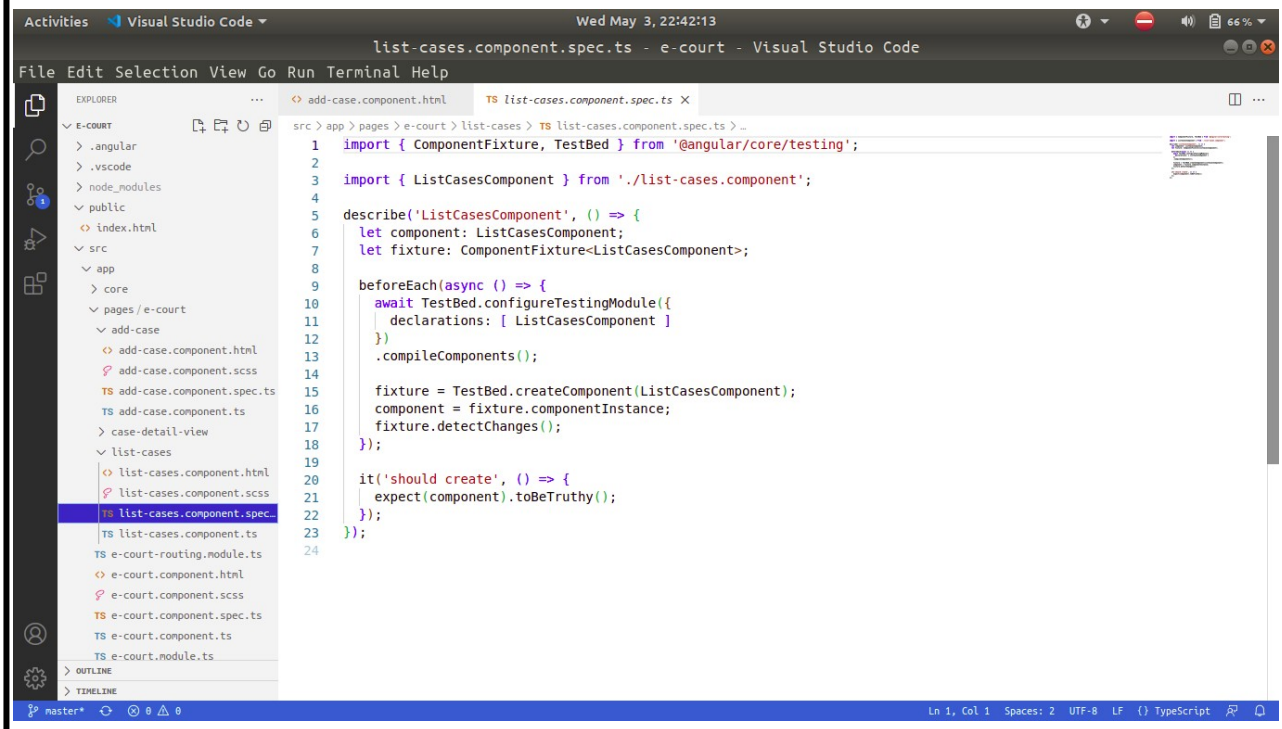
6.2:ANGULAR JS

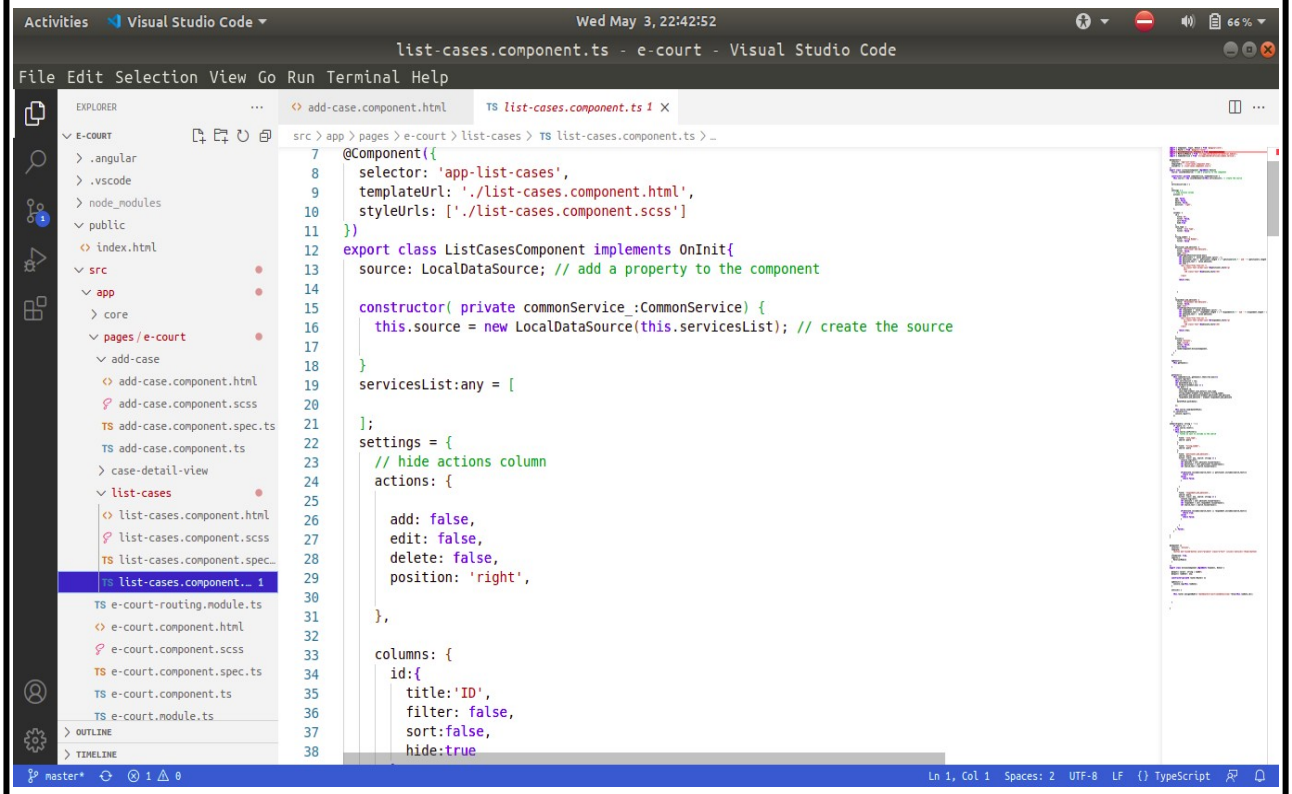
6.2.1-ADD CASES

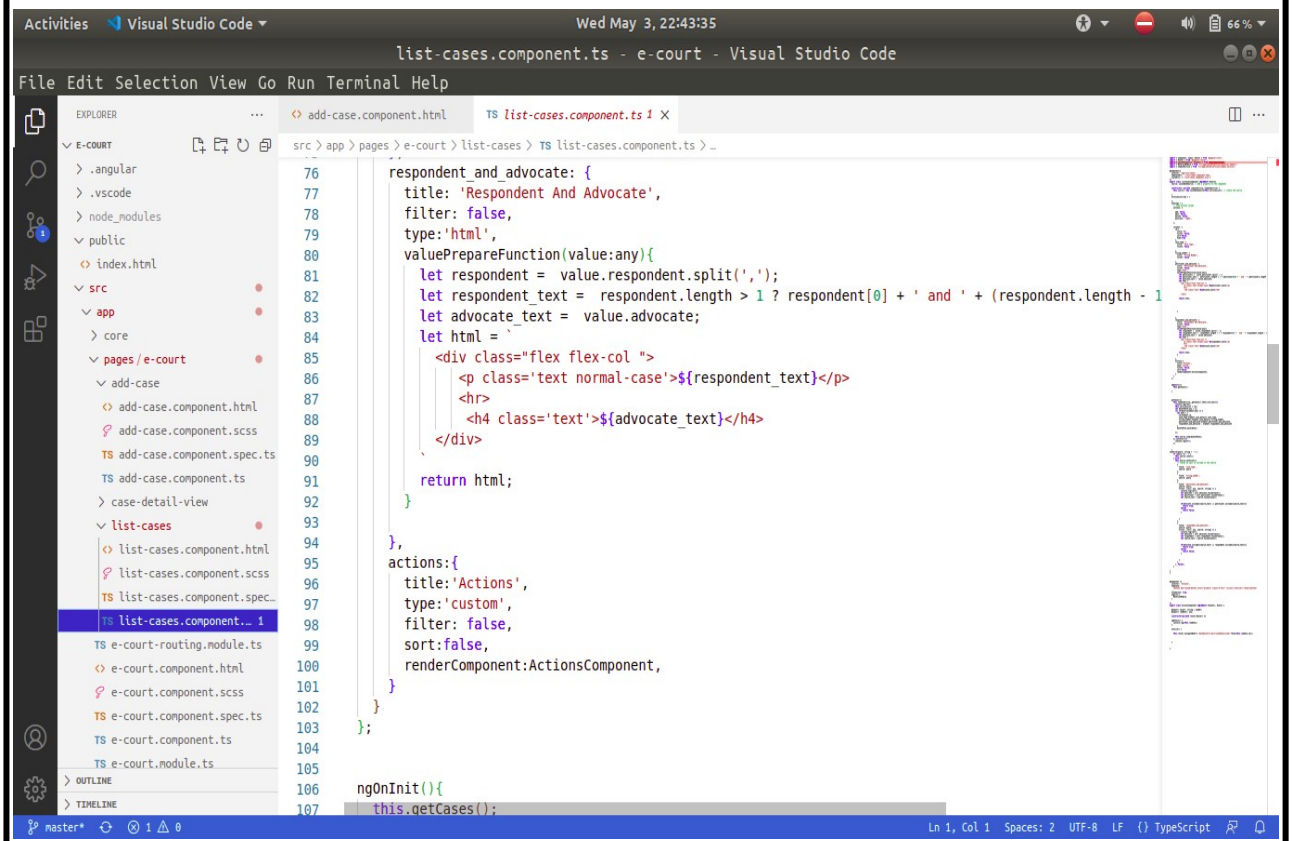




6.2.2: LIST CASES



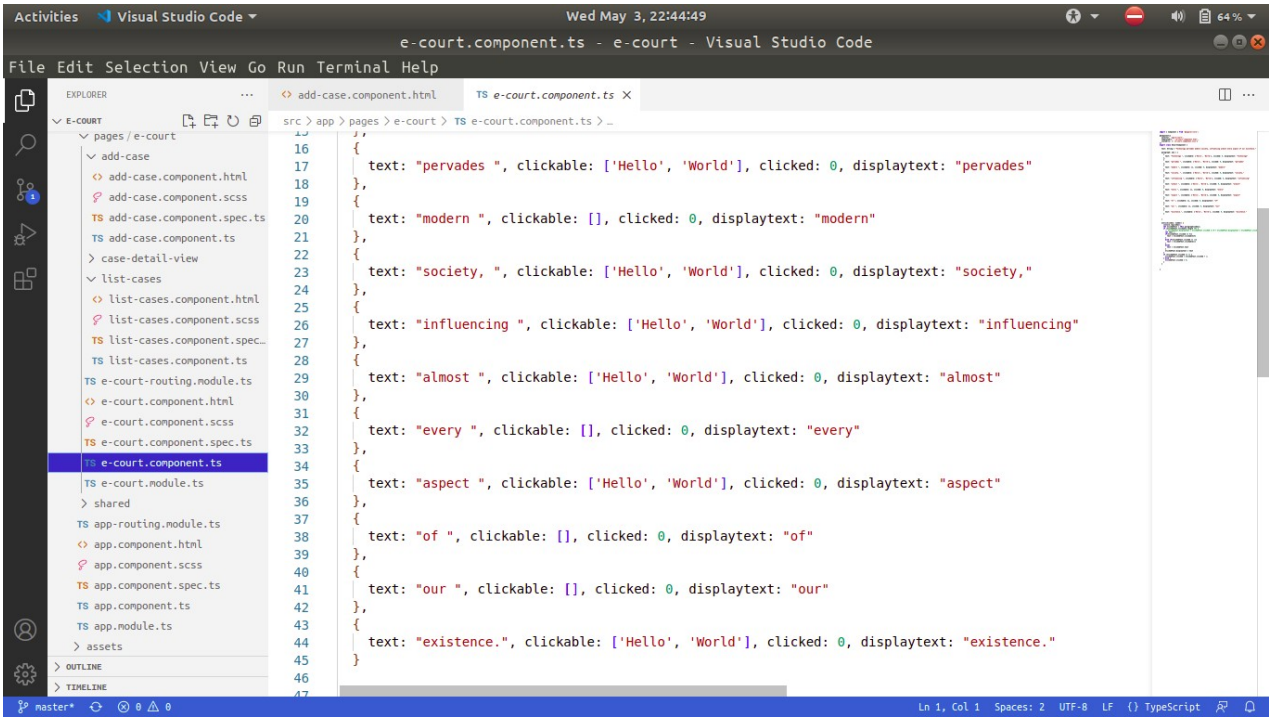

Activities
Visual Studio Code
Wed May 3, 22:42:52
list-cases.component.ts - e-court - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
E-COURT
add-case.component.html
list-cases.component.ts 1
src > app > pages > e-court > list-cases > TS list-cases.component.ts > ...
@Component({
selector: 'app-list-cases',
templateUrl: './list-cases.component.html',
styleUrls: ['./list-cases.component.scss']
})
export class ListCasesComponent implements OnInit{
source: LocalDataSource; // add a property to the component
constructor(private commonService_:CommonService) {
this.source = new LocalDataSource(this.servicesList); // create the source
}
servicesList:any = [
];
settings = {
// hide actions column
actions: {
add: false,
edit: false,
delete: false,
position: 'right',
},
columns: {
id:{
title:'ID',
filter: false,
sort:false,
hide:true
master*
Ln 1, Col 1
Spaces: 2
UTF-8
LF
{} TypeScript

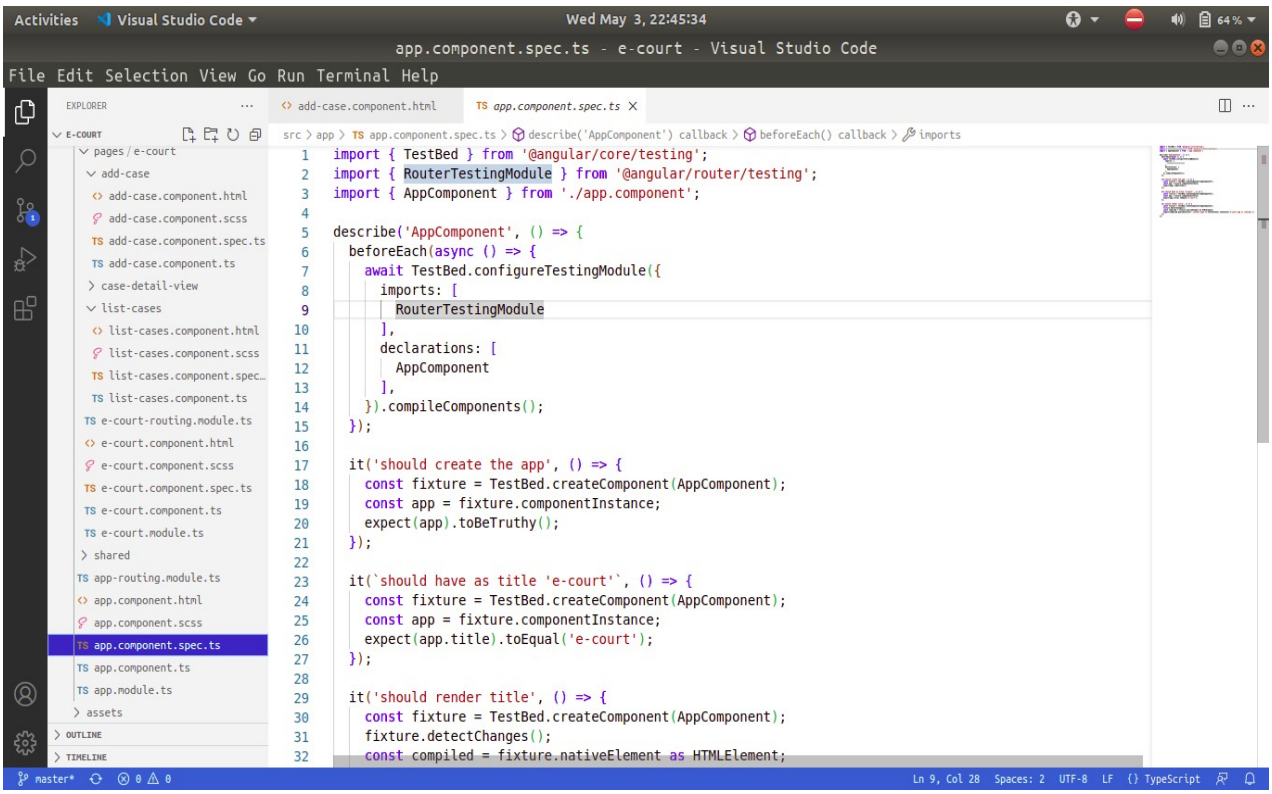

Activities
Visual Studio Code
Wed May 3, 22:43:35
list-cases.component.ts - e-court - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
E-COURT
add-case.component.html
list-cases.component.ts 1
src > app > pages > e-court > list-cases > TS list-cases.component.ts > ...
respondent_and_advocate: {
title: 'Respondent And Advocate',
filter: false,
type:'html',
valuePrepareFunction(value:any){
let respondent = value.respondent.split(',');
let respondent_text = respondent.length > 1 ? respondent[0] + ' and ' + (respondent.length - 1
let advocate_text = value.advocate;
let html = `

${respondent_text}
<hr>
<h4 class='text'>${advocate_text}</h4>

`
return html;
}
},
actions:{
title:'Actions',
type:'custom',
filter: false,
sort:false,
renderComponent:ActionsComponent,
}
}
};
ngOnInit(){
this.getCases();
master*
Ln 1, Col 1
Spaces: 2
UTF-8
LF
{} TypeScript

6.2.3: ACTS


Activities
Visual Studio Code
Wed May 3, 22:44:49
e-court.component.ts - e-court - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
E-COURT
add-case.component.html
e-court.component.ts
src > app > pages > e-court > TS e-court.component.ts > ...
{
text: "pervades ", clickable: ['Hello', 'World'], clicked: 0, displaytext: "pervades"
},
{
text: "modern ", clickable: [], clicked: 0, displaytext: "modern"
},
{
text: "society, ", clickable: ['Hello', 'World'], clicked: 0, displaytext: "society,"
},
{
text: "influencing ", clickable: ['Hello', 'World'], clicked: 0, displaytext: "influencing"
},
{
text: "almost ", clickable: ['Hello', 'World'], clicked: 0, displaytext: "almost"
},
{
text: "every ", clickable: [], clicked: 0, displaytext: "every"
},
{
text: "aspect ", clickable: ['Hello', 'World'], clicked: 0, displaytext: "aspect"
},
{
text: "of ", clickable: [], clicked: 0, displaytext: "of"
},
{
text: "our ", clickable: [], clicked: 0, displaytext: "our"
},
{
text: "existence.", clickable: ['Hello', 'World'], clicked: 0, displaytext: "existence."
}
master*
Ln 1, Col 1
Spaces: 2
UTF-8
LF
{} TypeScript


Activities
Visual Studio Code
Wed May 3, 22:45:34
app.component.spec.ts - e-court - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
E-COURT
add-case.component.html
app.component.spec.ts
src > app > TS app.component.spec.ts > describe('AppComponent') callback > beforeEach() callback > imports
import { TestBed } from '@angular/core/testing';
import { RouterTestingModule } from '@angular/router/testing';
import { AppComponent } from './app.component';
describe('AppComponent', () => {
beforeEach(async () => {
await TestBed.configureTestingModule({
imports: [
RouterTestingModule
],
declarations: [
AppComponent
],
}).compileComponents();
});
it('should create the app', () => {
const fixture = TestBed.createComponent(AppComponent);
const app = fixture.componentInstance;
expect(app).toBeTruthy();
});
it(`should have as title 'e-court'`, () => {
const fixture = TestBed.createComponent(AppComponent);
const app = fixture.componentInstance;
expect(app.title).toEqual('e-court');
});
it('should render title', () => {
const fixture = TestBed.createComponent(AppComponent);
fixture.detectChanges();
const compiled = fixture.nativeElement as HTMLElement;
master*
Ln 9, Col 28
Spaces: 2
UTF-8
LF
{} TypeScript

7 Testing

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing

2 .Integration testing

Unit Testing

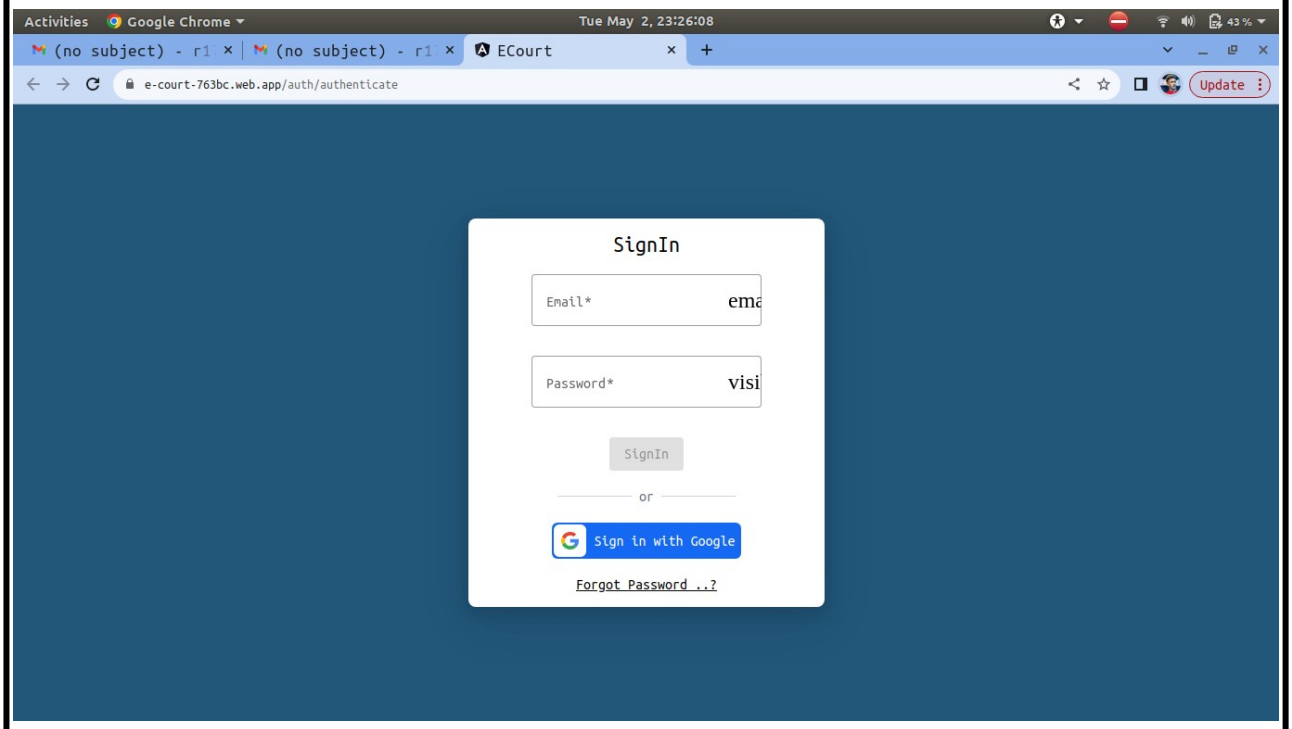
Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require The procedures belonging to other units that the unit under test calls Non local data structures that module accesses .A procedure to call the functions of the unit under test with appropriate parameters

Integration Testing

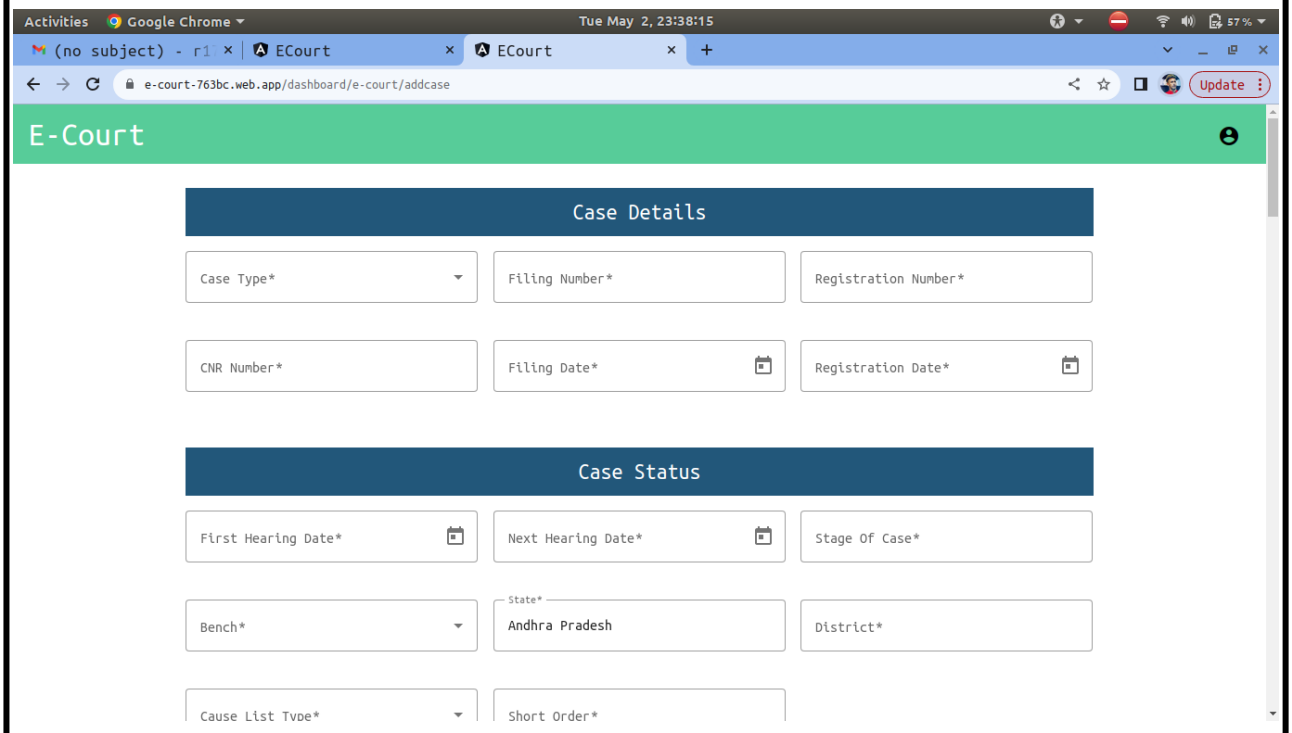
In the Integration testing we test various combination of the project module by providing the input.The primary objective is to test the module interfaces in order to confirm that no errors areoccurring when one module invokes the other module.

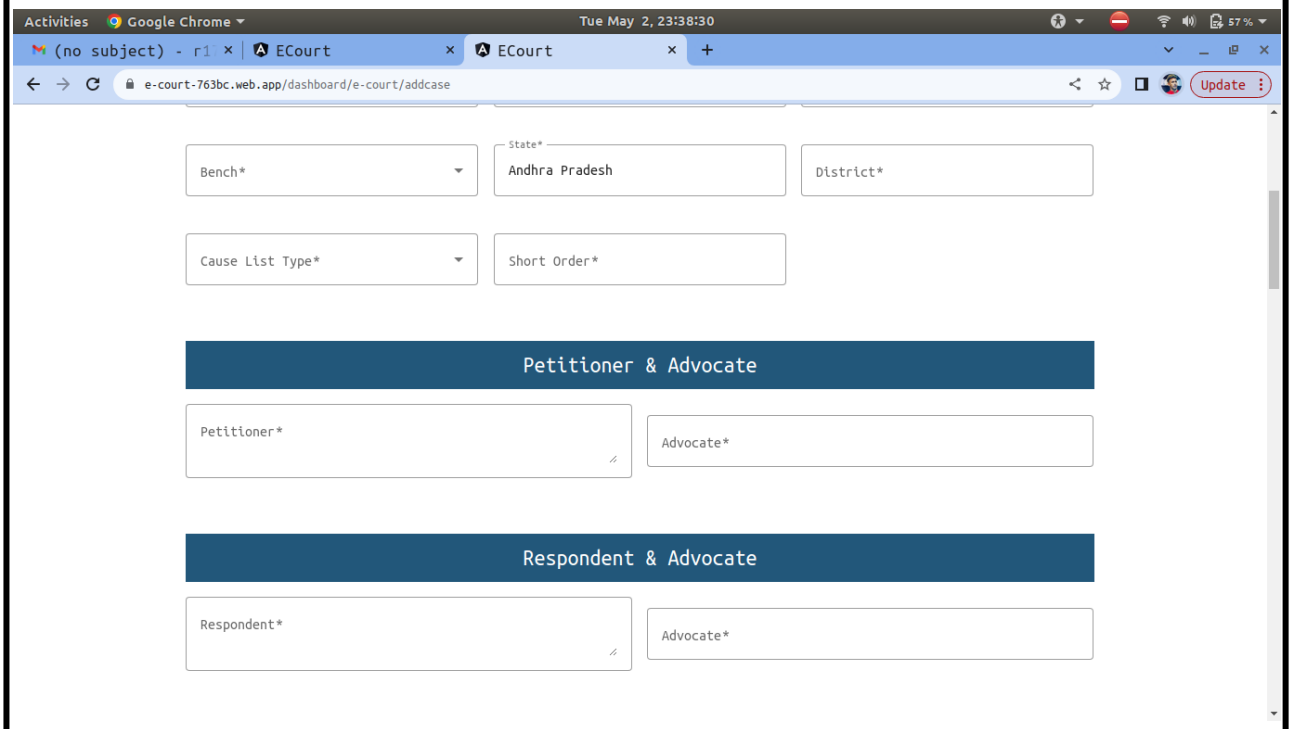
8.EVALUATION

8.1:LOGIN

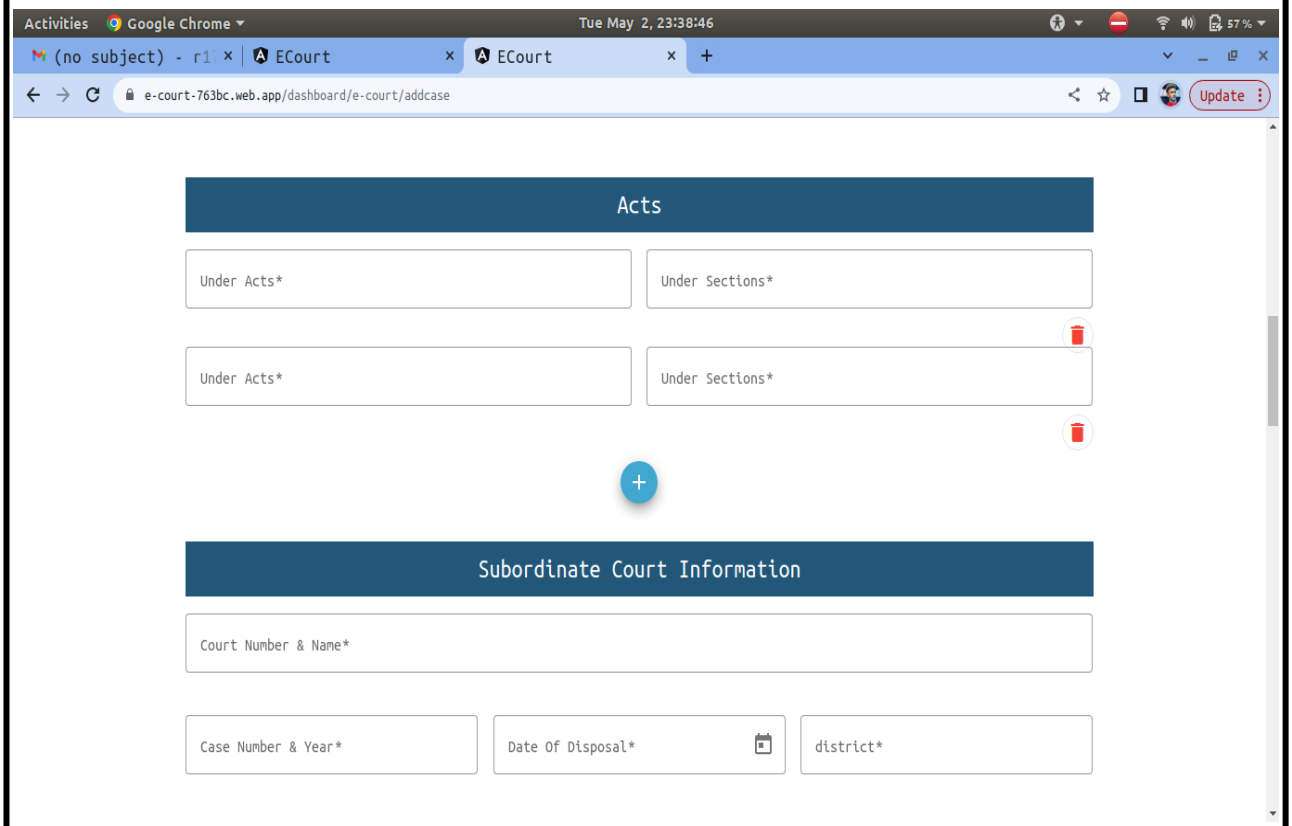


8.2:CASE DETAILS

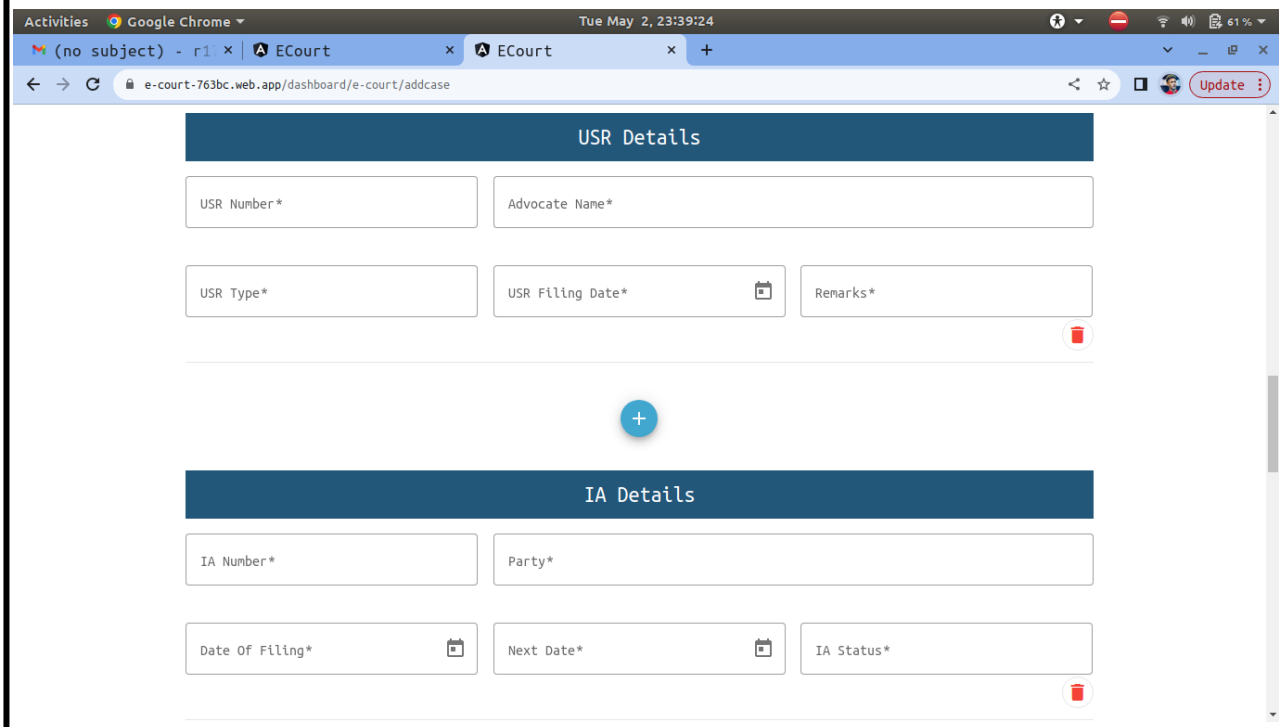



Activities
Google Chrome
Tue May 2, 23:38:30
(no subject) - r1
ECourt
ECourt
e-court-763bc.web.app/dashboard/e-court/addcase
Update
Bench*
State*
Andhra Pradesh
District*
Cause List Type*
Short Order*
Petitioner & Advocate
Petitioner*
Advocate*
Respondent & Advocate
Respondent*
Advocate*

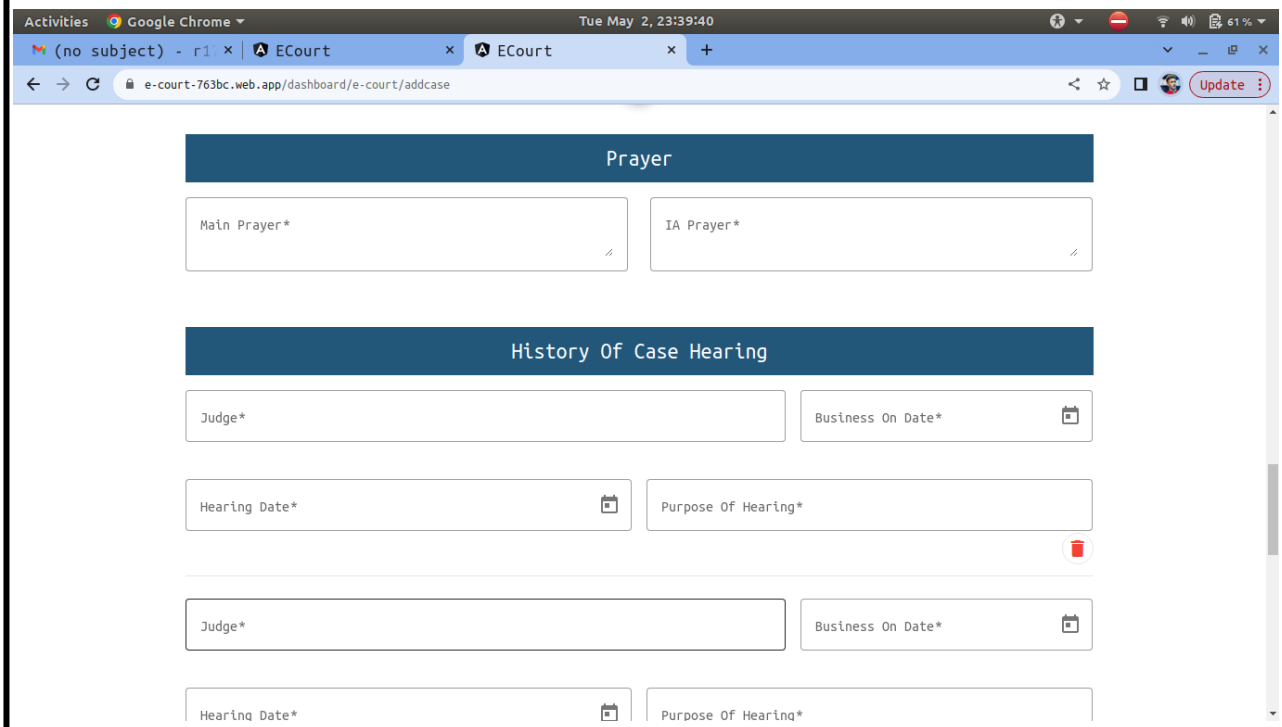
8.3:ACTS


Activities
Google Chrome
Tue May 2, 23:38:46
(no subject) - r1
ECourt
ECourt
e-court-763bc.web.app/dashboard/e-court/addcase
Update
Acts
Under Acts*
Under Sections*
Under Acts*
Under Sections*
Subordinate Court Information
Court Number & Name*
Case Number & Year*
Date Of Disposal*
district*

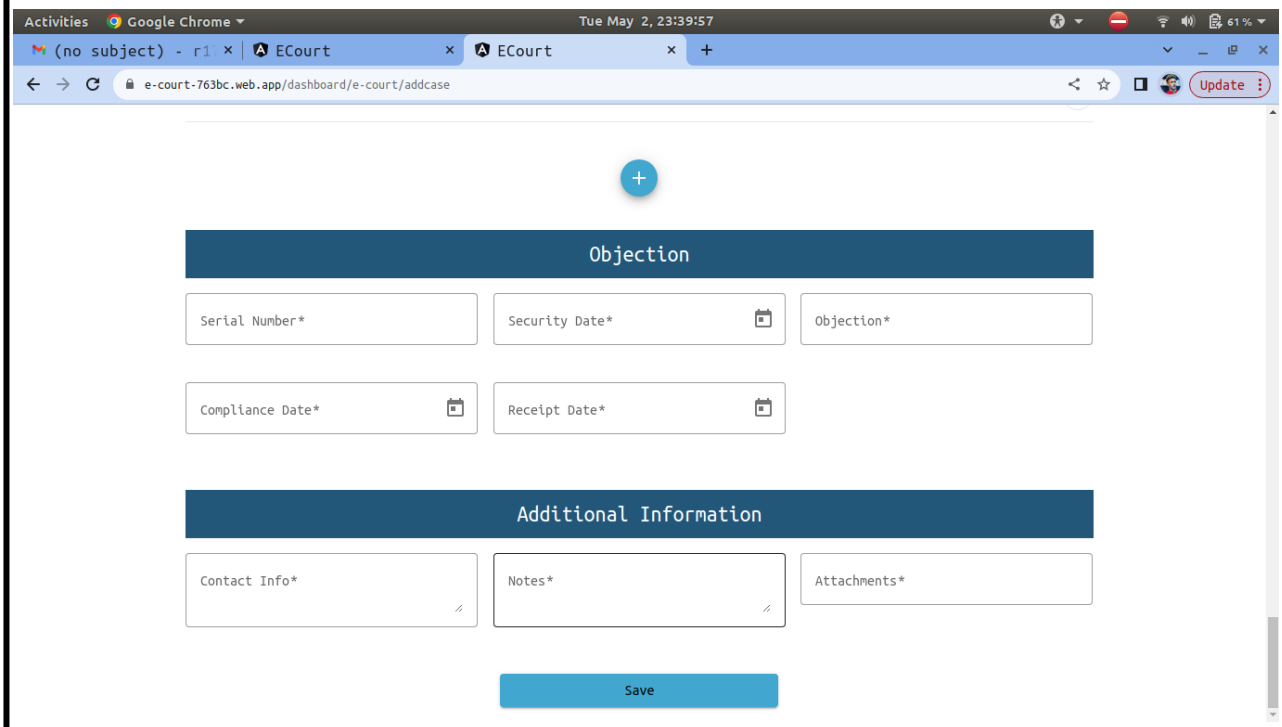
8.4: USR DETAILS



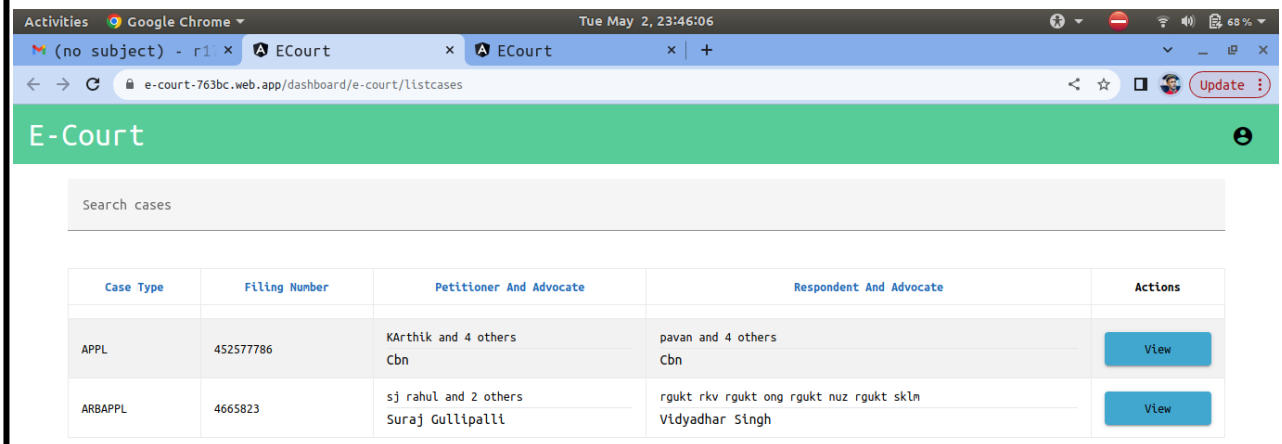
8.5:HISTORY OF CASE HEARING



8.6:ADDITIONAL INFO:

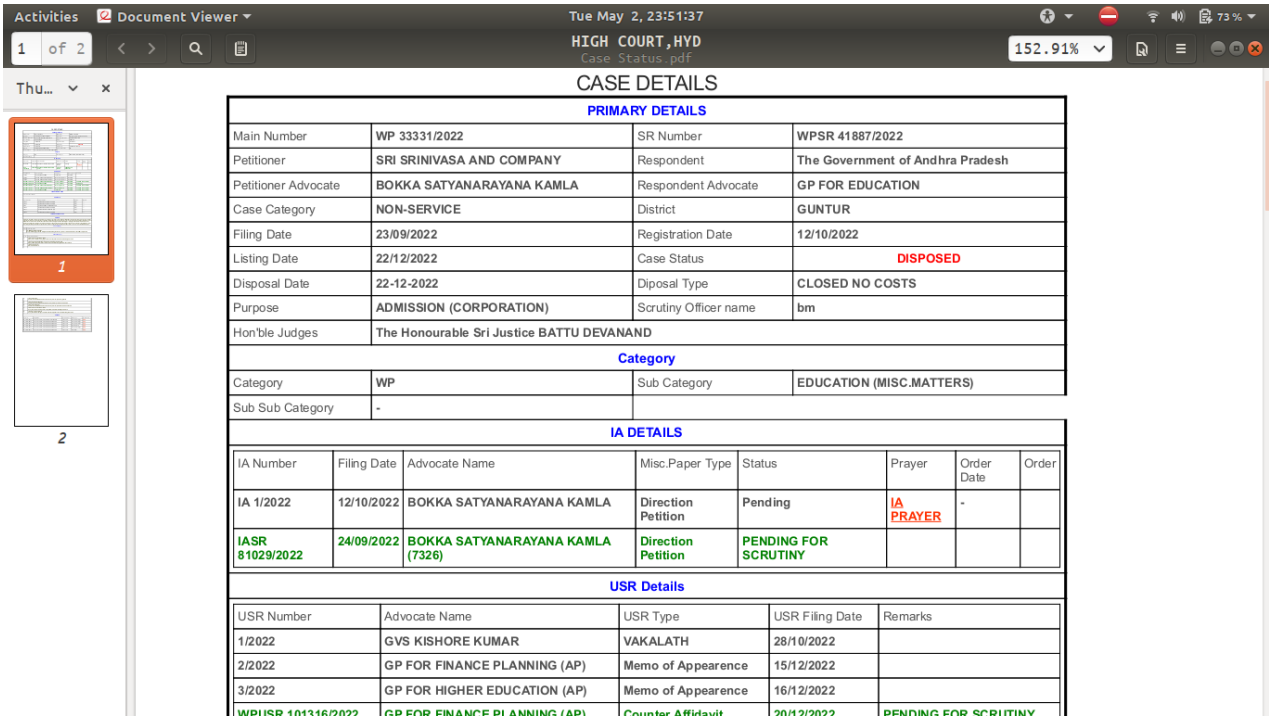


8.7: VIEW CASE DETAILS



9.FINAL OUTPUT

9.1:PDF GENERATOR



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CASE DETAILS

PRIMARY DETAILS

Main Number	WP 33331/2022	SR Number	WPSR 41887/2022
Petitioner	SRI SRINIVASA AND COMPANY	Respondent	The Government of Andhra Pradesh
Petitioner Advocate	BOKKA SATYANARAYANA KAMLA	Respondent Advocate	GP FOR EDUCATION
Case Category	NON-SERVICE	District	GUNTUR
Filing Date	23/09/2022	Registration Date	12/10/2022
Listing Date	22/12/2022	Case Status	DISPOSED
Disposal Date	22-12-2022	Diposal Type	CLOSED NO COSTS
Purpose	ADMISSION (CORPORATION)	Scrutiny Officer name	bm
Hon'ble Judges	The Honourable Sri Justice BATTU DEVANAND		

Category

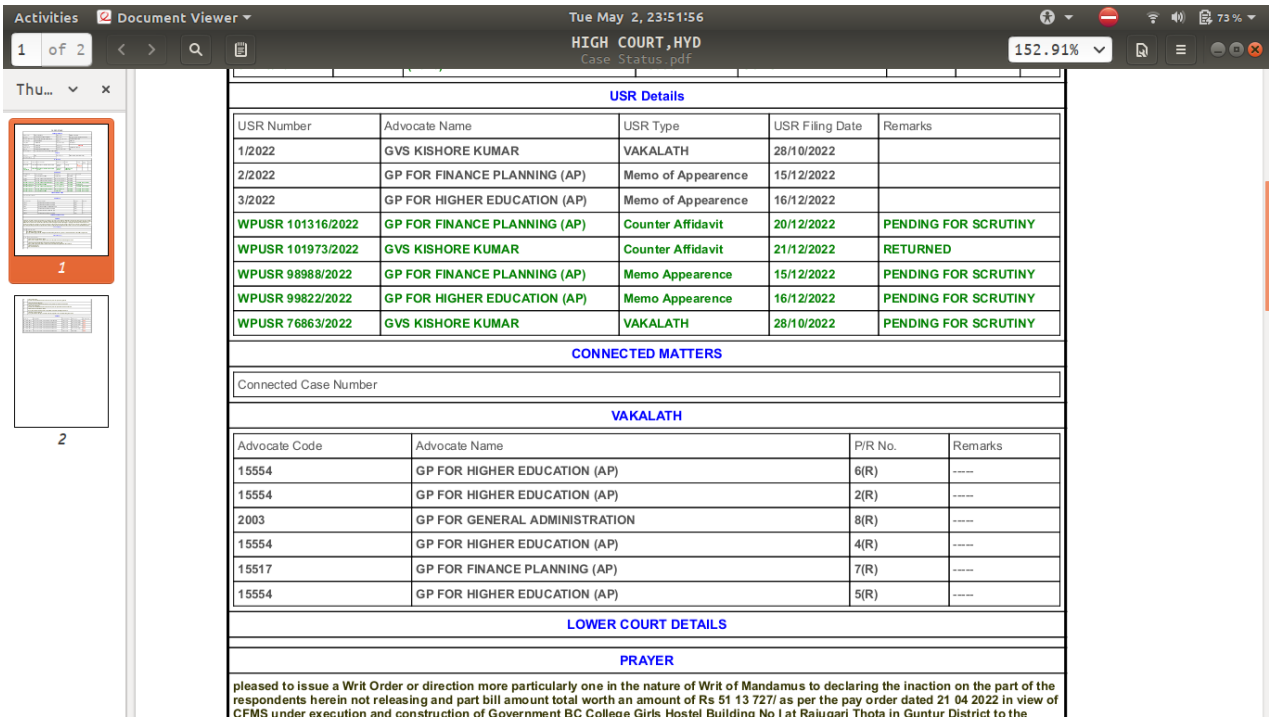
Category	WP	Sub Category	EDUCATION (MISC.MATTERS)
Sub Sub Category	-		

IA DETAILS

IA Number	Filing Date	Advocate Name	Misc.Paper Type	Status	Prayer	Order Date	Order
IA 1/2022	12/10/2022	BOKKA SATYANARAYANA KAMLA	Direction Petition	Pending	IA PRAYER	-	
IASR 81029/2022	24/09/2022	BOKKA SATYANARAYANA KAMLA (7326)	Direction Petition	PENDING FOR SCRUTINY			

USR Details

USR Number	Advocate Name	USR Type	USR Filing Date	Remarks
1/2022	GVS KISHORE KUMAR	VAKALATH	28/10/2022	
2/2022	GP FOR FINANCE PLANNING (AP)	Memo of Appearence	15/12/2022	
3/2022	GP FOR HIGHER EDUCATION (AP)	Memo of Appearence	16/12/2022	
WPUSR 101316/2022	GP FOR FINANCE PLANNING (AP)	Counter Affidavit	20/12/2022	PENDING FOR SCRUTINY



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USR Details

USR Number	Advocate Name	USR Type	USR Filing Date	Remarks
1/2022	GVS KISHORE KUMAR	VAKALATH	28/10/2022	
2/2022	GP FOR FINANCE PLANNING (AP)	Memo of Appearence	15/12/2022	
3/2022	GP FOR HIGHER EDUCATION (AP)	Memo of Appearence	16/12/2022	
WPUSR 101316/2022	GP FOR FINANCE PLANNING (AP)	Counter Affidavit	20/12/2022	PENDING FOR SCRUTINY
WPUSR 101973/2022	GVS KISHORE KUMAR	Counter Affidavit	21/12/2022	RETURNED
WPUSR 98988/2022	GP FOR FINANCE PLANNING (AP)	Memo Appearence	15/12/2022	PENDING FOR SCRUTINY
WPUSR 99822/2022	GP FOR HIGHER EDUCATION (AP)	Memo Appearence	16/12/2022	PENDING FOR SCRUTINY
WPUSR 76863/2022	GVS KISHORE KUMAR	VAKALATH	28/10/2022	PENDING FOR SCRUTINY

CONNECTED MATTERS

Connected Case Number

VAKALATH

Advocate Code	Advocate Name	P/R No.	Remarks
15554	GP FOR HIGHER EDUCATION (AP)	6(R)	----
15554	GP FOR HIGHER EDUCATION (AP)	2(R)	----
2003	GP FOR GENERAL ADMINISTRATION	8(R)	----
15554	GP FOR HIGHER EDUCATION (AP)	4(R)	----
15517	GP FOR FINANCE PLANNING (AP)	7(R)	----
15554	GP FOR HIGHER EDUCATION (AP)	5(R)	----

LOWER COURT DETAILS

PRAYER

pleased to issue a Writ Order or direction more particularly one in the nature of Writ of Mandamus to declaring the inaction on the part of the respondents herein not releasing and part bill amount total worth an amount of Rs 51 13 727/ as per the pay order dated 21 04 2022 in view of CFMS under execution and construction of Government BC College Girls Hostel Building No I at Rajugari Thota in Guntur District to the

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R.No	Respondent(S) Name
1	The Government of Andhra Pradesh Rep by its Principal Secretary Heigher Education Department Secretariat Buildings Amaravati
2	The A P Education and Welfare Infrastructure Development Corporation Rep by its Managing Director Government of Andhra Pradesh Vijayawada Krishna District
3	The District Collector Guntur District Guntur
4	The Chief Engineer A P Education and Welfare Infrastructure Development Corporation Vijayawada
5	The Superintendent Engineer A P Education and welfare Infrastructure Development Corporation Guntur District
6	The Executive Engineer A P Education and Welfare Infrastructure Development Corporation Guntur District Guntur
7	The Government of Andhra Pradesh rep by its principal secretary Finance department Secretariat Buildings Amaravati
8	The State of Andhra Pradesh rep by its Chief Secretary General Administration Department Secretariat Buildings Amaravati

ORDERS

Order on	Judge Name	Date of Orders	Order Type	Order Details
WP 33331/2022	The Honourable Sri Justice NINALA JAYASURYA	2022-10-13	Court Proceedings	View
WP 33331/2022	The Honourable Sri Justice BATTU DEVANAND	2022-12-01	Court Proceedings	View
WP 33331/2022	The Honourable Sri Justice BATTU DEVANAND	2022-12-01	Court Proceedings	View
WP 33331/2022	The Honourable Sri Justice BATTU DEVANAND	2022-12-01	Spl Cell Orders	View
WP 33331/2022	The Honourable Sri Justice BATTU DEVANAND	2022-12-15	Court Proceedings	View

10.CONCLUSION

E-Court case details system will improve the efficiency of the court system and reduce unnecessary paperwork. The system will provide a user-friendly interface that will make it easier for lawyers and judges to manage cases. The system will ensure that the information is secure and accessible at any time. Developing an electronic system for court proceedings will help in saving time, money and will also make the whole court process much more organized and transparent.

11.REFERENCES

1. https://material.angular.io/components/categories
2. https://www.w3schools.com/php
3. https://www.w3.org/Style/CSS/Overview.en.html
4. https://www.w3schools.com/js/js_functions.asp