

Software Engineering Lab
Implementation Report I - Build I

Online Judiciary System



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1. Basic Information

The software has been written using the Python programming language and using the Django web framework. We made use of the PyCharm IDE/Visual studio code and the Windows Powershell/Command prompt/Git bash to create new projects and new applications within the project. We tested our website by using the inbuilt server present in Django.

Software requirements:

- 1.Download python from www.python.org During installation select 'Add python to path(checkbox at the bottom)'
- 2.Download Django from www.djangoproject.com and install version it by taking reference to that site.[Instructions are provided in that website]
- 3.In Windows Powershell/Command prompt type 'easy_install django' to install django.
- 3.In Windows Powershell/Command prompt type 'pip install django_tables2' to install the django_tables2.
- 4.In Windows Powershell/Command prompt type 'pip install --upgrade django-crispy-forms' to install crispy-forms.
- 5.You need IDE's like Pycharm or visual studio code to write and run python programs.[Notepad++ will be also fine].
- 6.Brackets software for html/css files[Note:visual studio code is also fine]

Steps to run the website:

1. After downloading the software. Open the directory of the software files by typing 'cd <path of the file>'
- 2.Type 'python manage.py runserver' to run the server. This starts a web server providing our website.
3. Type '127.0.0.1:8000/' in the URL of a web browser.
4. This will load the homepage of the website and the rest of the website can be navigated like a regular website.

2. Functional Requirements (Implemented)

| FRID | NAME | DESCRIPTION |
|------|---|---|
| 1 | Open web application in web browsers present in PC with active internet | A user should be able to open the web application through web browsers [like Google chrome or Mozilla firefox etc]. The application is free to use but user must have active internet to open web application. |
| 3 | Victim Registration | The victim must provide his username, password and email address, phone number and address to register into the website. |
| 4 | Victim login | If the victim is already registered then he can directly login the website by providing the correct username and password, otherwise he/she will have to first register and after that he/she can login. |
| 7 | Selection between police or lawyer. | After successful login victim can choose the type of judicial help he/she requires, by selecting either lawyer or police. |
| 8 | Search[lawyer] | After successful login if the victim wants to send his/her crime details to lawyer and had selected lawyer option, then he will be able to see the list of all registered lawyers. The list will show their the victim their [lawyers] username, email-id, phone number, previous handled cases and fees. |
| 9 | Search[Police] | After successful login if the victim wants to send his/her crime details to police and had selected police option, then he will be able to see the list of all registered |

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| | | police[stations].The list will show their the victim their username,email-id,phone number and already registered cases. |
| 12 | Lawyer Registration | The lawyer must provide username, password, email address, phone number , address, previous cases and his/her fees to register into the website. |
| 13 | Lawyer login | After registration the lawyer can log into the website by providing the correct username and password.If the lawyer is not already registered in the system then he/she must do first signup before login. |
| 16 | Open web application in web browsers present in PC with active internet | Police should be able to open the web application through web browsers[like Google chrome or Mozilla firefox etc]. The application should be free to use but police must have active internet to open web application. |
| 17 | Police registration | The police must provide username, password and email address, phone number and address to register into the website. |
| 18 | Police login | After registration the police can log into the website by providing the correct username and password.If the police is not already registered in the system then he/she must do first signup before login. |
| 21 | Administrator login | In order to administer the system an administrator should be logged in to the web-portal |
| 22 | Verify all users | The administrator has to verify the users. The user can login only after the |

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| | | verification. If the user gets rejected then the user won't be able to login. |
| 23 | Manage lawyer categories | The administrator can add a new category or modify any existing category or delete a category. This will help to provide a more refined data of the lawyers. |

3. Functional Requirements (Not Implemented)

Reasons for not being able to implement the following functionalities in this build are:

1. Debugging: Due to having less experience in django the debugging took more time than planned.
2. Certain functionalities required complicated procedures and we were unable to implement them.
3. We were unable to perform some database queries and are making efforts to implement them.
4. We are still in the process of developing the database and have not yet added all the fields in it, like when the victim send case details to either police or lawyer it will add a new field[new cases]in the database of police or lawyer.

| FRID | NAME | Description |
|------|---|--|
| 2 | Download and notify users of new releases | When a new/updated version or release of the software is released, the user should be notified and should be able to download it from the web servers. |
| 5 | Retrieve password | If the user forgets his/her password then he/she would be able to retrieve his/her password by email. |
| 6 | Take details from victim about case | Given that a victim is logged in to the web application, then the first page that is shown is the page that take details from |

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| | | <p>victim about crime like what type of crime it is, place where crime happened etc.</p> <p>Victim should be able to write crime details in page. The crime details victim enters are stored automatically in database.</p> |
| 10 | Send | <p>Given that a victim had selected the appropriate lawyer from the list. The system should be able to send details of case to that selected lawyer.</p> |
| 11 | Send | <p>Given that a victim had selected the appropriate police station from the list. The system should be able to send details of case to that selected police station.</p> |
| 14 | Edit personal information | <p>The lawyer can edit his/her personal details like contact number, email address, etc.</p> |
| 15 | Update case details | <p>The lawyer can update the following case details:</p> <p>Next case hearing</p> <p>New evidence</p> <p>Progress in the investigation</p> |
| 19 | Retrieve password | <p>Given that a police has registered, then the police should be able to retrieve his/her password by email.</p> |
| 20 | Display lodged FIRs | <p>The police should be able to see all the FIR's that are lodged in police station and can take immediate action on that.</p> |
| 24 | Manage the users | <p>If a user does not have any activity for over a year then his account can be deleted, the user will be sent a</p> |

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| | | notification, if he fails to reply then his account will be deleted. This will help to optimise the memory available. |
|--|--|---|

4. Screenshots

1:Open web application in web browsers present in PC with active internet



3:Victim registration

Hey,Welcome to the sign up page for victim

Phone:

Address:

Username: Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.

Password confirmation: Enter the same password as before, for verification.

Email address:

4:Victim login

Hey,Welcome to the login page for victim

• This field is required.

Username:

• This field is required.

Password:

If you are not already registered in system you can sign up here.

7:Selection between police or lawyer.

Select from below option with which you want to share your case details.

Go with Lawyer

Go With Police

8:Search[Lawyer]

List of registered Lawyers

You can select one of the lawyer from the list which you think is suitable for your case.

| Username | Email-id | Phone no. | Previous handled cases | Fees |
|-------------|---------------------|-------------------|------------------------|------|
| law | law@law.com | 65475 | gd | 0 |
| edickx | abc@gmail.com | 999099 | ppp | -2 |
| bobbypt0567 | bobbypt05@gmail.com | <u>9900474592</u> | Held | 900 |
| q | a@g.com | 0 | i | 9 |
| w | op@g.com | 9 | red | 8 |

9:Search[Police]

List of registered Police Stations

You can select one of the police station from the list which is nearer to the place of crime

| Username | Email-id | Phone no. | Cases registered |
|----------|----------------------|-----------|------------------|
| ikm | hardik2707@gmail.com | 9900 | uuui |
| police1 | ma@g.com | 2 | oppmm |
| police2 | ma@g.com | 2 | oppmm |
| a | u@g.com | 99 | tr |
| ap | u@g.com | 99 | tr |
| qwer | akshaykr97@gmail.com | 0 | dddd |

12:Lawyer registration

Hey,Welcome to the sign up page for Lawyer

Phone:

Address:

Username: Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

Your password can't be too similar to your other personal information.

Your password must contain at least 8 characters.

Your password can't be a commonly used password.

Your password can't be entirely numeric.

Password confirmation: Enter the same password as before, for verification.

Email address:

Previous cases:

Fees:

SignUp

13:Lawyer login

Hey,Welcome to the login page for lawyer

- This field is required.
Username:
- This field is required.
Password:

If you are not already registered in system you can sign up here.

16:Open web application in web browsers present in PC with active internet



17:Police registration

Hey,Welcome to the sign up page for police

Phone:

Address:

Username: Required. 150 characters or fewer. Letters, digits and @/./+/_ only.

Password:

Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.

Password confirmation: Enter the same password as before, for verification.

Email address:

Cases registered:

18:Police login

Hey,Welcome to the login page for police

This field is required.

Username:

This field is required.

Password:

If you are not already registered in system you can sign up here.

21:Administrator login

Django administration

Username:

Password:

22:Verify users

Select user to change

ADD USER +

Q

Search

Action:

Go

 0 of 24 selected

| <input type="checkbox"/> | USERNAME | EMAIL ADDRESS | FIRST NAME | LAST NAME | STAFF STATUS |
|--------------------------|-------------|-------------------------|------------|-----------|--------------|
| <input type="checkbox"/> | 99 | hj@g.com | | | ✖ |
| <input type="checkbox"/> | a | u@g.com | | | ✖ |
| <input type="checkbox"/> | admin | | | | ✔ |
| <input type="checkbox"/> | ap | u@g.com | | | ✖ |
| <input type="checkbox"/> | bobbypt056 | asd@gmail.com | | | ✖ |
| <input type="checkbox"/> | bobbypt0567 | bobbypt05@gmail.com | | | ✖ |
| <input type="checkbox"/> | edickx | abc@gmail.com | | | ✖ |
| <input type="checkbox"/> | hardik12 | | | | ✔ |
| <input type="checkbox"/> | hardik1670 | hardikrana276@gmail.com | | | ✖ |

FILTER

By staff status

All

Yes

No

By superuser status

All

Yes

No

By active

All

Yes

No

23:Change lawyer category

Select user to change

ADD USER +

Action:

Go

 0 of 5 selected

| | |
|--------------------------|-------------|
| <input type="checkbox"/> | USER |
| <input type="checkbox"/> | w |
| <input type="checkbox"/> | q |
| <input type="checkbox"/> | bobbypt0567 |
| <input type="checkbox"/> | edickx |
| <input type="checkbox"/> | law |

5 users

5. Plan for Next Build / Release

In the next release we plan to incorporate the unimplemented functional requirements. We plan to remove any bugs like URL linking errors. We plan to introduce a new feature in which if any changes related to a user are made then that user will get notified about it by email. We will try to add functionalities for lawyer and police in the next build.

6. Summary

The software required and the procedure to download and install them is provided. Followed by this the instructions to be executed to run the website are provided.

The entire report describes about the functional requirements implemented in the first build. It also provides reasons as to why some functional requirements were not implemented.

The screenshots of the website are also included. These give an idea about the graphical interface of the website.

In the end we have mentioned plans for the next build, in which we plan to include the unimplemented functional requirements and add a few new features.

