

PES UNIVERSITY

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Bengaluru 560085

Department of Computer Science and Engineering
B. Tech. CSE - 6th Semester
Jan – May 2023

UE20CS352
Object Oriented Analysis and Design using Java
Project Report

Forensic Management System

Team Details:

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PES1UG20CS538: ANUPAMA

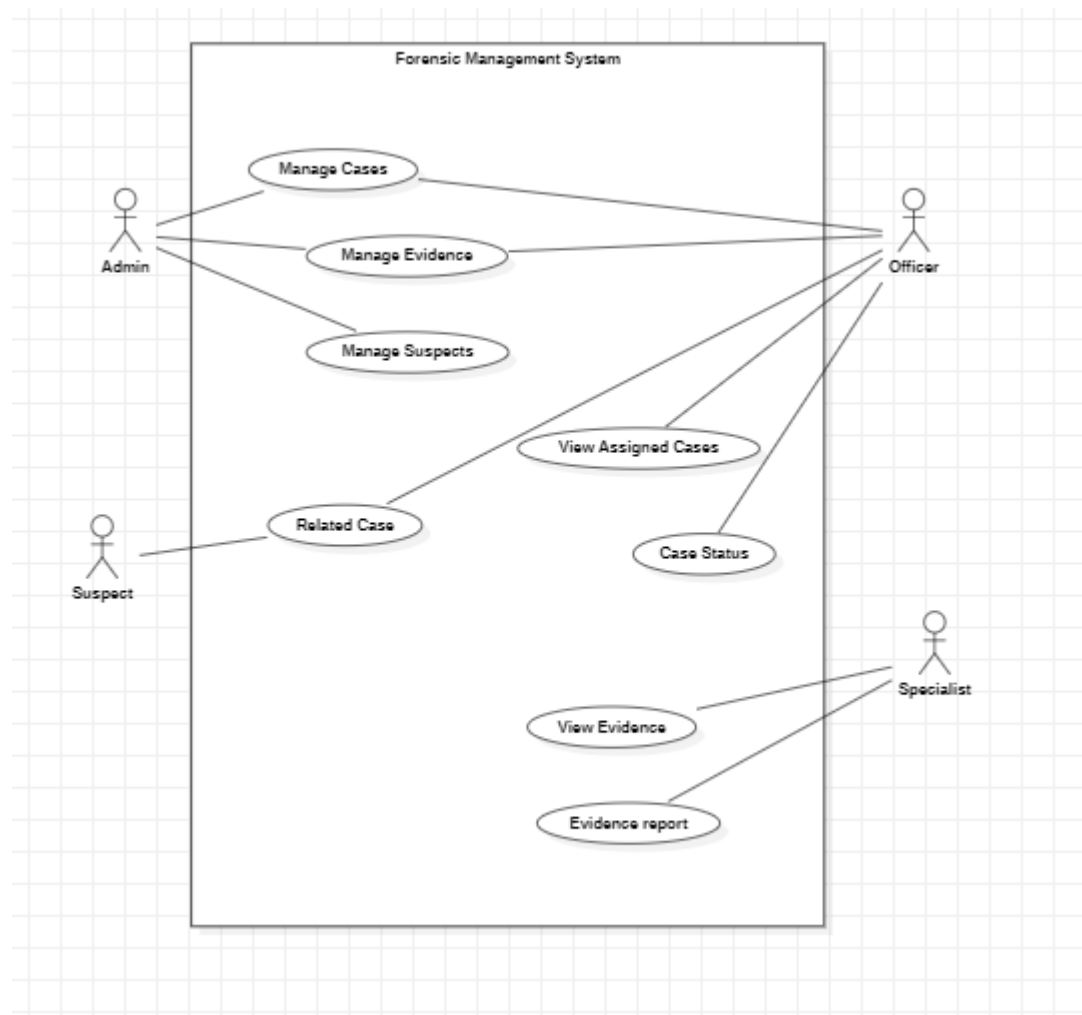
PES1UG20CS547: DHEERAJ

Problem statement

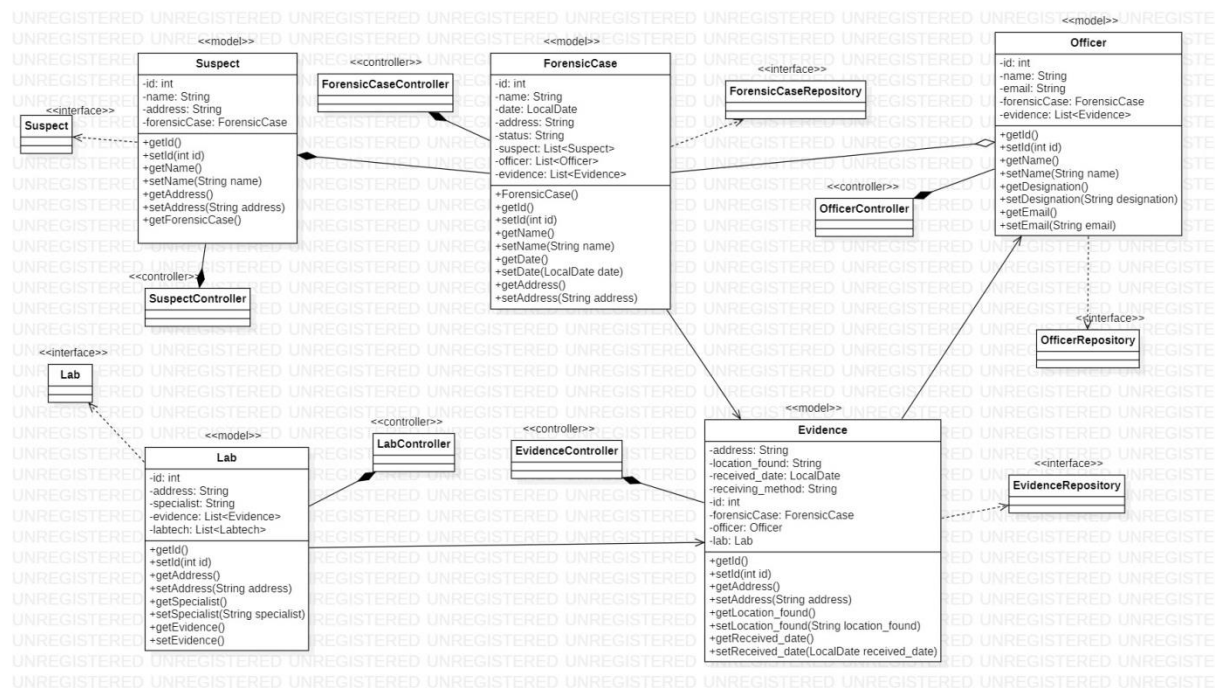
Forensic Management System will be able to reduce the paper trail required in the process. Digital files will make the sharing and appending of case files extremely easy. Since access to the system is required to view a case file it becomes very simple to track and regulate access to the case files. Documents from different laboratories regarding analyses can be securely and instantly sent via the internet. This Forensic Management System will augment the crime solving and record keeping abilities of a modern police force.

Models (Use Case and Class Models)

Use Case



Class Models



Architecture Pattern

Model-View-Controller (MVC) pattern: This pattern separates an application into three interconnected components: the model (data and business logic), the view (user interface), and the controller (handles user input and updates the model).

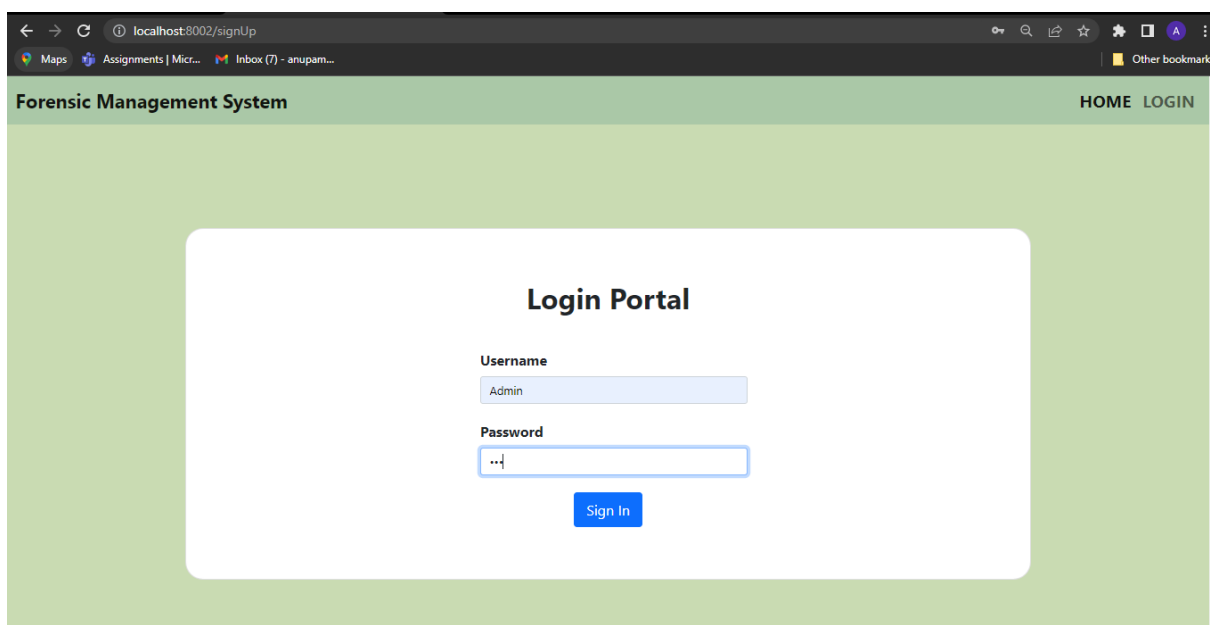
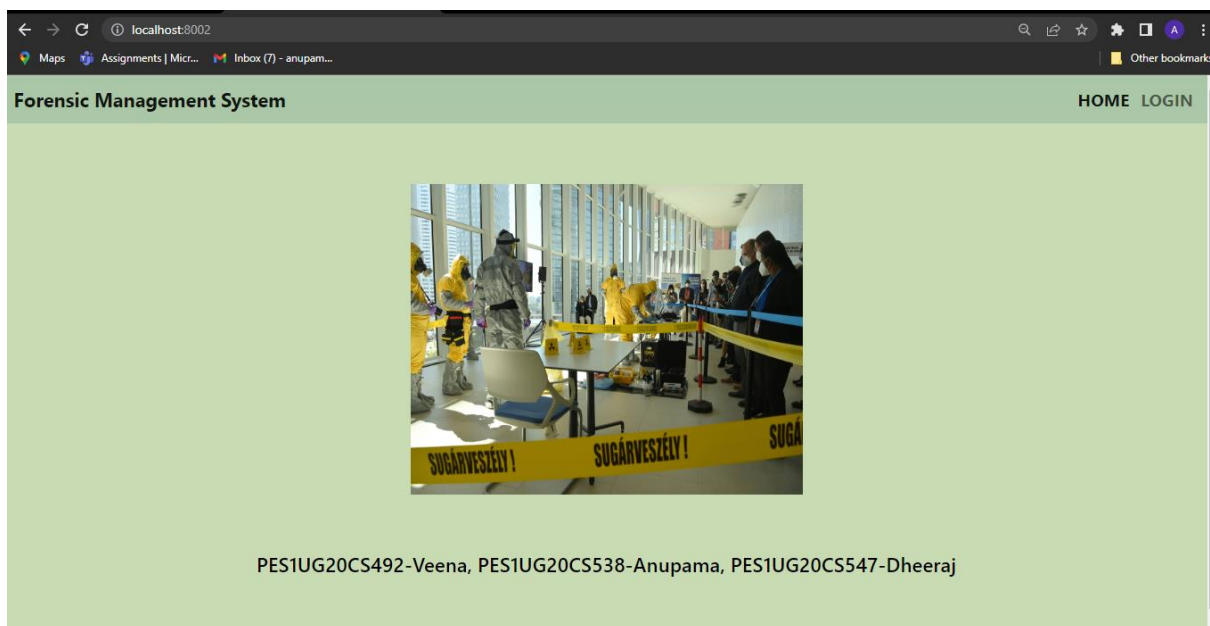
Design Principles

Single Responsibility Principle (SRP): A class should have only one reason to change. This principle states that a class should have only one responsibility or concern, and that responsibility should be encapsulated within the class. This makes the code easier to maintain and modify over time.

Open-Closed Principle (OCP): Software entities (classes, modules, functions, etc.) should be open for extension but closed for modification. This principle states that software should be designed in a way that new functionality can be added without changing existing code. This makes the code more modular and easier to maintain.

Interface Segregation Principle (ISP): Clients should not be forced to depend on interfaces they do not use. This principle states that interfaces should be designed to be as small and focused as possible, with only the methods that are needed for specific use cases. This makes code more modular and reduces the coupling between components.

Screenshots with input values populated and output shown



Forensic Management System

HOMELOGOUT

Criminal Case

Suspects

Inspector

Evidence

Crime Lab

Forensic Management System

Save Criminal case

murder

pes

19-04-2023

incomplete

Save Criminal Case

[Back to Criminal Case Catalog](#)

Forensic Management System

HOMELOGOUT

Criminal Case

Suspects

Inspector

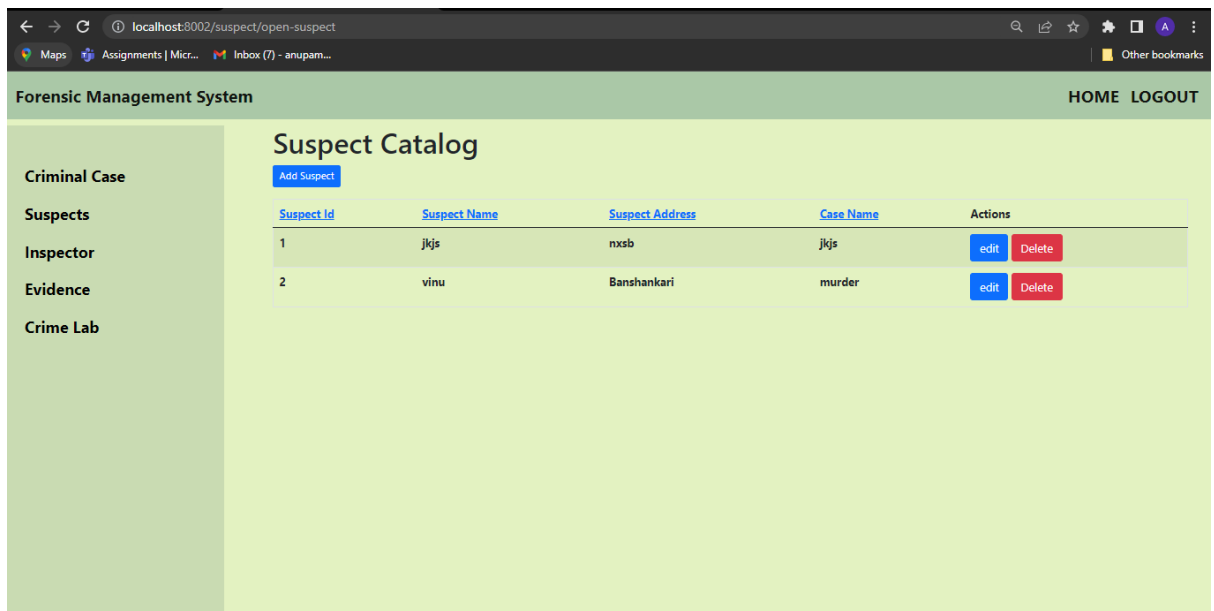
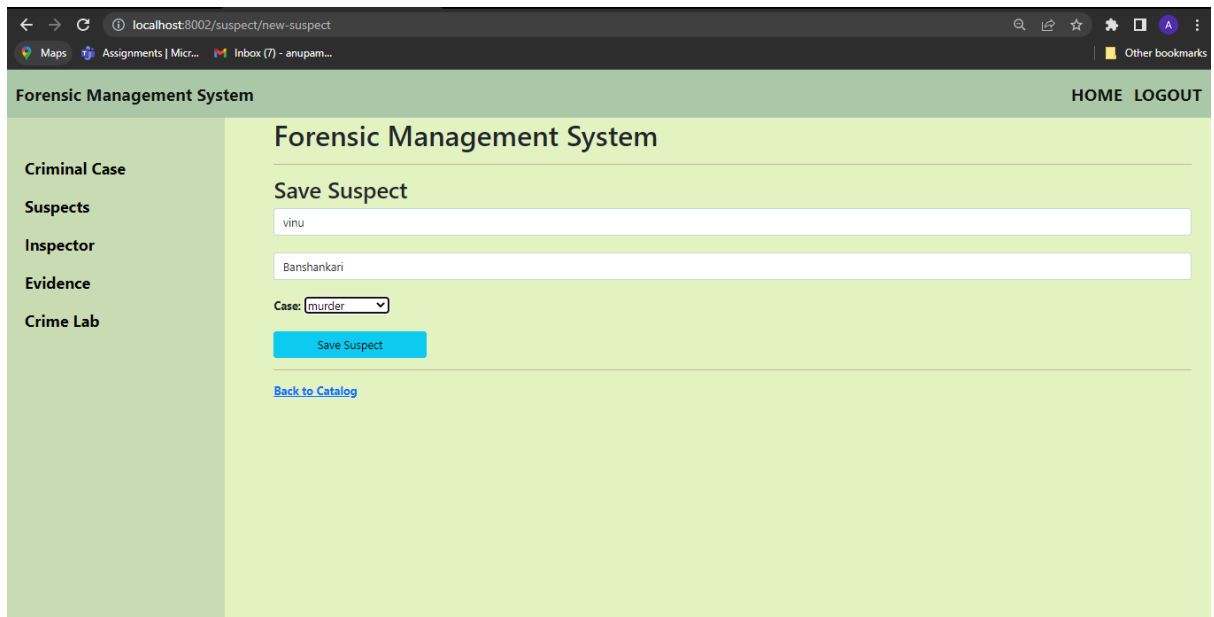
Evidence

Crime Lab

Criminal Case Catalog

Add Case

Case Id	Case Name	Case Address	Case Date	Case Status	Actions
1	rrr	aera	2023-04-18	complete	<div>editDelete</div>
2	jkjs	nxzmn,	2021-10-01	complete	<div>editDelete</div>
3	murder	pes	2023-04-19	incomplete	<div>editDelete</div>



Forensic Management System

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Inspector

Evidence

Crime Lab

Forensic Management System

Save Inspector

Case:

Save Inspector

[Back to Catalog](#)

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HOMELOGOUT

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Inspector

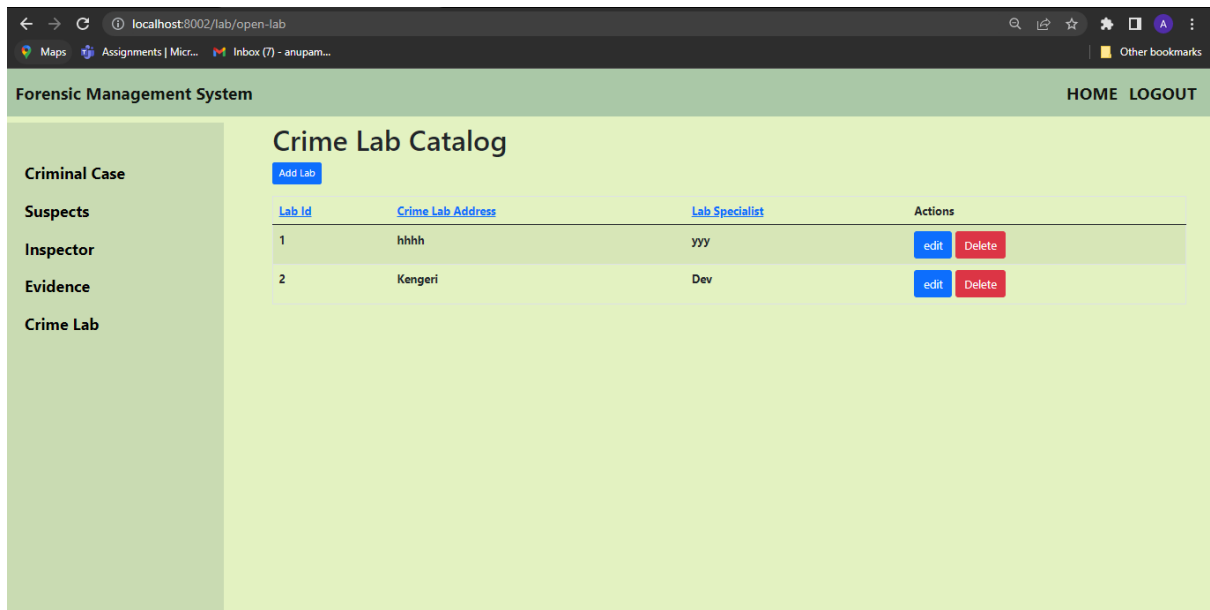
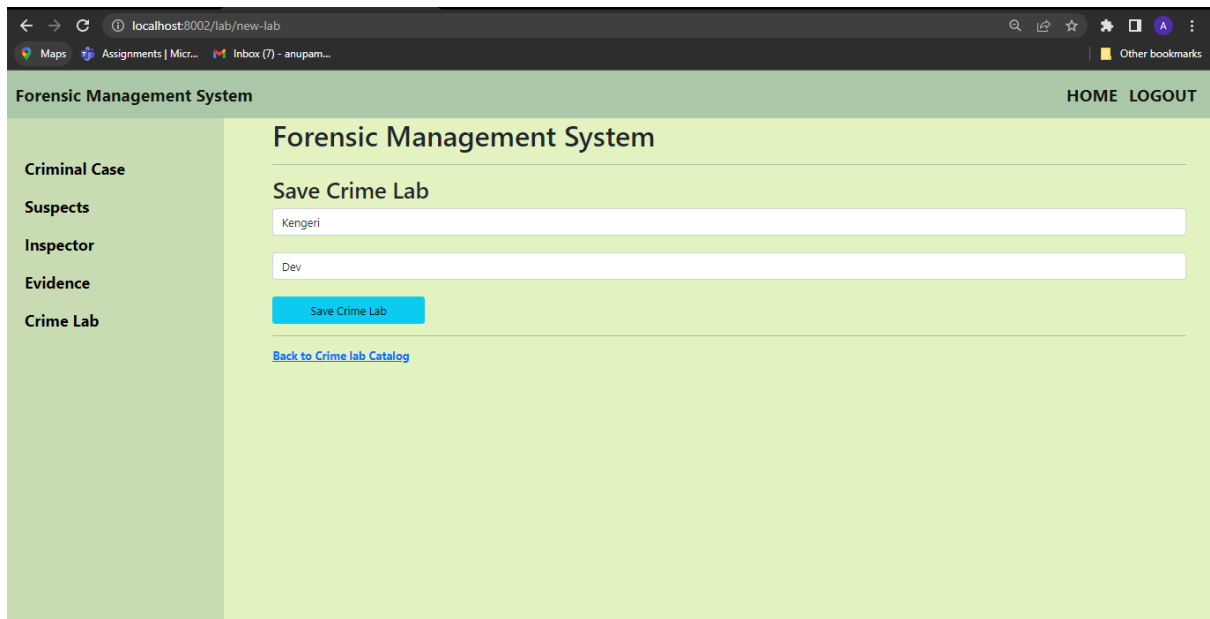
Evidence

Crime Lab

Inspector Catalog

Add Inspector

Inspector Id	Inspector Name	Inspector Designation	Inspector Email	Case Name	Actions	
1	ben	pc	sanvi@gmail.com	jkjs	edit	Delete
2	veena	pc	manjunathanawad93@gmail.com	murder	edit	Delete
3	meera	APC	meera@gmail.com	murder	edit	Delete



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Forensic Management System

Save Evidence

Banshankari 3rd

Banshankari

26-04-2023

Case: murderCrime Lab: DevInspector: meera

Save Evidence

[Back to Evidence Catalog](#)

Forensic Management System

HOMELOGOUT

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Inspector

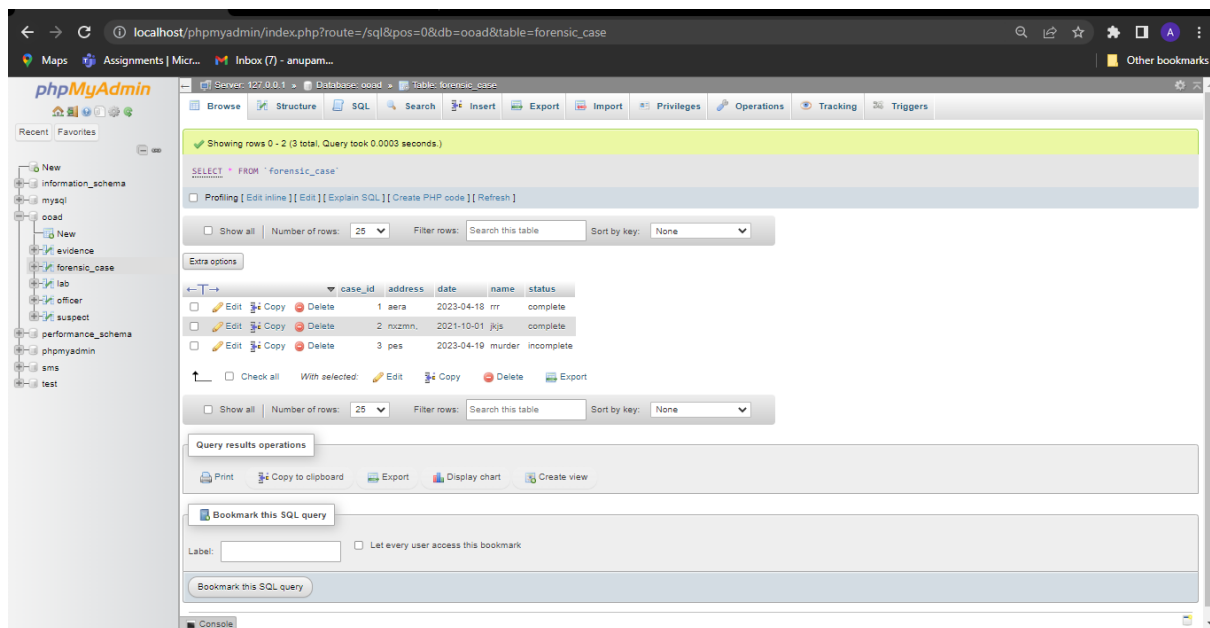
Evidence

Crime Lab

Evidence Catalog

Add Evidence

Evidence Id	Address	Location Found	Received Date	Case Name	Crime Lab	Inspector Name	Actions
3	bbb	jjj	2023-04-14	rrr	yyy	ben	<div>editDelete</div>
4	Banshankari 3rd	Banshankari	2023-04-26	murder	Dev	meera	<div>editDelete</div>



Github link : <https://github.com/AnupamaHavinal/Forensic-Management-System>