Software Engineering 2016

FROM LEFT TO RIGHT ***:-***
HARSHIT JAIN (14UCS047) , ADITYA SHARMA (14UCS007) , VINOD KUMAR SHARMA (14UCC042) , CHHATRAPATI JAIN (14UCS033) , RAJAT RANJAN (14UCC030) ,ANSHUL GOYAL (14UCS020) .

Group ID: A13

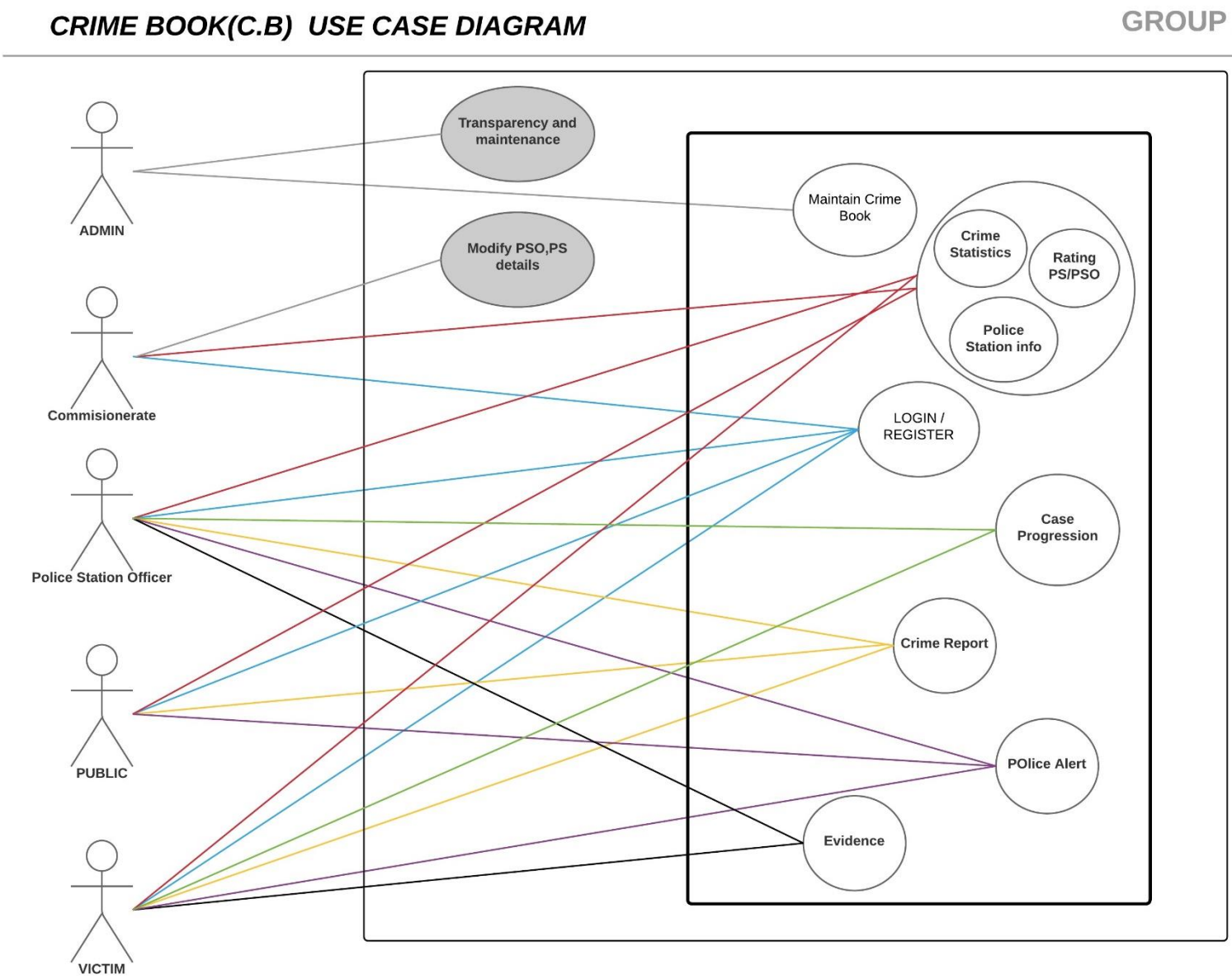
<Crime Book>

Product Owner: ADITYA SHARMA and **Scrum Master**: ANSHUL GOYAL

PURPOSE :

Our main objective is to ease public & police interaction by creating a online platform. We are also providing a stage for public to file online FIR report and navigation of crime density. People would also become more aware about prevailing crime in the city and thus would be more careful.

Use case diagram - Revised



Product Backlog - Revised

Story ID	As a/an	I Want to	So that...	Priority (H/M/L)
100	Victim	Report .	I get justice.	H
101	Victim	See the status of investigation of crime.	I become aware and pressurize police to do their work efficiently.	M
102	Victim	Have notification when my case has been solved.	Able to get justice.	M
103	Victim	Communicate with police through message.	I can provide evidence of crime to police.	H
104	Public	Report crime in my area.	It could be highlighted and brought to justice.	H
105	Public	Know the address of nearest police station.	I could go there immediately in case of any emergency.	L
106	Public	See the statistics of various crime prevailing in my city.	I could be more careful and conscious.	M
107	Public	Navigate crime rate of different cities/colonies.	So that I can plan to visit that area properly.	H
108	Public	To see trending crime in all locality.{between 24 hrs}	I can be aware about latest crime .	H
109	Police	Communicate with crime victim.	I can investigate crime efficiently.	H
110	Police	To give public alerts.	Public can aware about current crime.	H
111	Police	To see List of pending crimes.	I can take action accordingly.	M
112	Police	Update case progress.	Victim can be able to know his case status.	M
113	Commissionerate	I would be able to see the Performance of police officers.	So that it would be easy for me to make their transfers and keep a check on their work.	H
114	Commissionerate	I want to see stats of type of crime in city / Locality.	I can take further actions.	H
115	Commissionerate	Modify and Rate the police person details.	Their level of work and performance could be seen and appreciated by everyone	M
116	Commissionerate	To modify police station details.	Public can be aware about new station in locality.	M
117	Admin	Maintain crime book.	Everything remain updated and transparent.	H

Sprint 1 Plan – Backlog (with estimate and actual points)

Required ONLY if you have team did not report "points" in the estimate and actual columns

Story ID	As a/an	I Want to	So that...	Estimate	Actual
100	Victim	Report .	I get justice.	3	3
101	Victim	See the status of investigation of crime.	I become aware and pressurize police to do their work efficiently.	2	2
104	Public	Report crime in my area.	It could be highlighted and brought to justice.	3	3
105	Public	Know the address of nearest police station.	I could go there immediately in case of any emergency.	2	3
106	Public	See the statistics of various crime prevailing in my city.	I could be more careful and conscious.	2	2
111	Police	To see List of pending crimes.	I can take action accordingly.	2	1
113	Commissionerate	I would be able to see the Performance of police officers.	So that it would be easy for me to make their transfers and keep a check on their work.	1	2
117	Admin	Maintain crime book.	Everything remain updated and transparent.	3	3

Sprint 2 Plan - Backlog

Story ID	As a/an	I Want to	So that...	Estimate	Actual
107	Public	Navigate crime rate of different cities/colonies.	So that I can plan to visit that area properly.	3	3
108	Public	To see trending crime in all locality.{between 24 hrs}	I can be aware about latest crime .	3	3
110	Police	To give public alerts.	Public can aware about current crime.	2	1
114	Commissionerate	I want to see stats of type of crime in City / Locality.	I can take further actions.	2	1
115	Commissionerate	Modify and Rate the police person details.	Their level of work and performance could be seen and appreciated by everyone	3	2
116	Commissionerate	To modify police station details.	Public can be aware about new station in locality.	2	2

Sprint 2 Plan - Acceptance criteria and test result

Story ID	Acceptance criteria	Test Result
107	1.) Locality entered should exist. 2.)Negligible Crime Rates Cities Should not be Ignored(say 0.00008 %).	Accepted Rejected
108	If Data Updated Concurrently.	Rejected
110	1.) Login credentials should exist. 2.) Alerts should have a subject. 3.) Alerts should be less than 150 words.	Accepted Accepted Rejected
114	1.) Entered crime should be valid. 2.) Locality entered should exist.	Accepted Accepted
115	1.)Police person should exist. 2.)Must have a Unique id. 3.)Rating should on scale of 5. 4.)Police Should not able to Change their position	Accepted Accepted Accepted Accepted
116	1.)Police station should exist. 2.)Police station Id should be a primary key/unique.	Accepted Accepted

Comments on How Personas were used in the UI/UX design

- Victim (Ashok Kumar) - Rajat Ranjan(14ucc030)

The victim has lost his car. The victim is going to login and report the crime . He would be able to see and perceive the report and the status of filled report. He would also be able to see all details of the previous crimes reported by him.

- Victim (Harshita Sharma) - Vinod Sharma(14ucc042)

The victim has lost her jewellery. The crime would be reported by victim after login. She would be able to see the report and the status of filed report.

- Public (Ravi Ganguly) - Aditya Sharma(14ucs007)

Ravi can see the various types of crime prevailing in and around the cities. He would become aware about trending crime in different localities and also make other people aware.As public he would be able to see the nearby police stations.

- Public (Ramakant Krishnan) - Harshit Jain (14ucs047)

He would also be able to watch all the latest and previous police alerts near his locality and other localities. He would also be able to see contact details of all police stations near his locality. Also he would be able to see the graph wise statistics of different crimes.

- Data Analyst (Dr.Abhay Shrivastava) – Anshul Goyal (14ucs020)

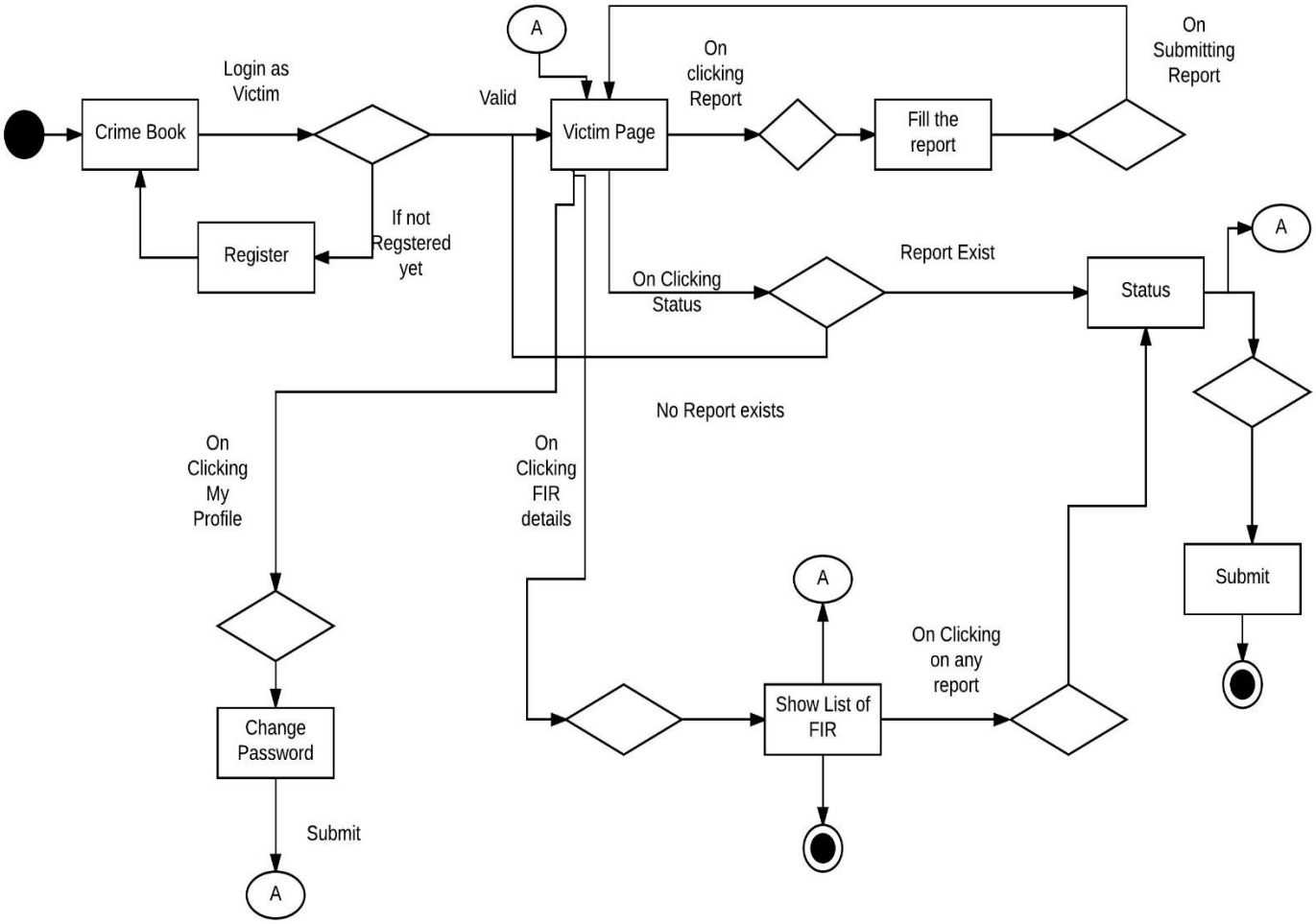
He would analyze and scrutinize all the data related to crime. He would also forsee the performance of the police in solving different types of crimes. The data related to a particular crime and particular locality would be clearly provided to him. Accordingly he would be able to generate reports for his research work.

- Media Person (Dr.Kumar Vishwas) – Chatrapati Jain (14ucs033)

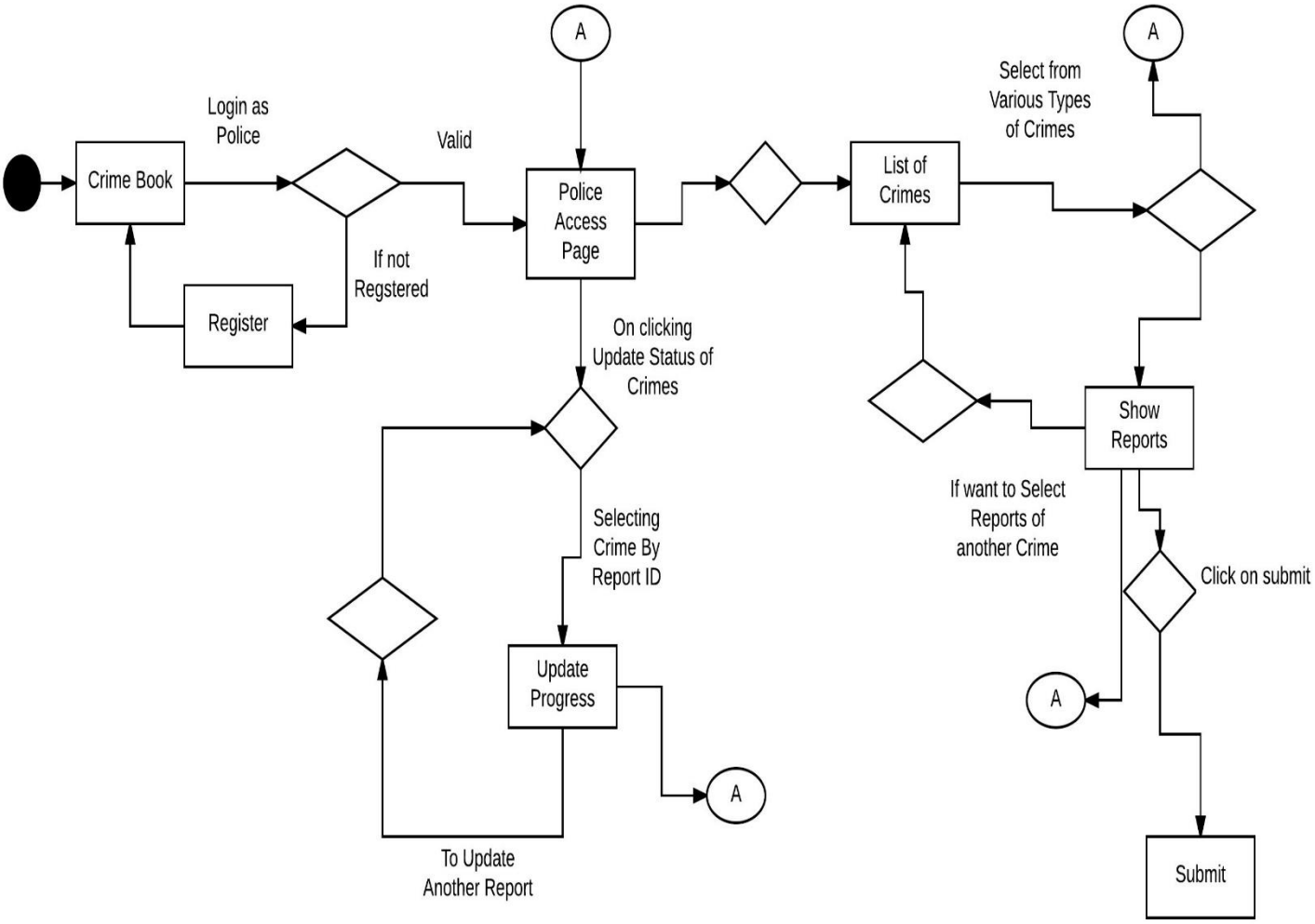
His task would be to raise public awareness about a particular crime. He would also pressurize the police to look into the crimes which have been neglected. Through the statistics of trending crime he would bring the attention of society towards a specific crime.

Activity diagrams - Revised

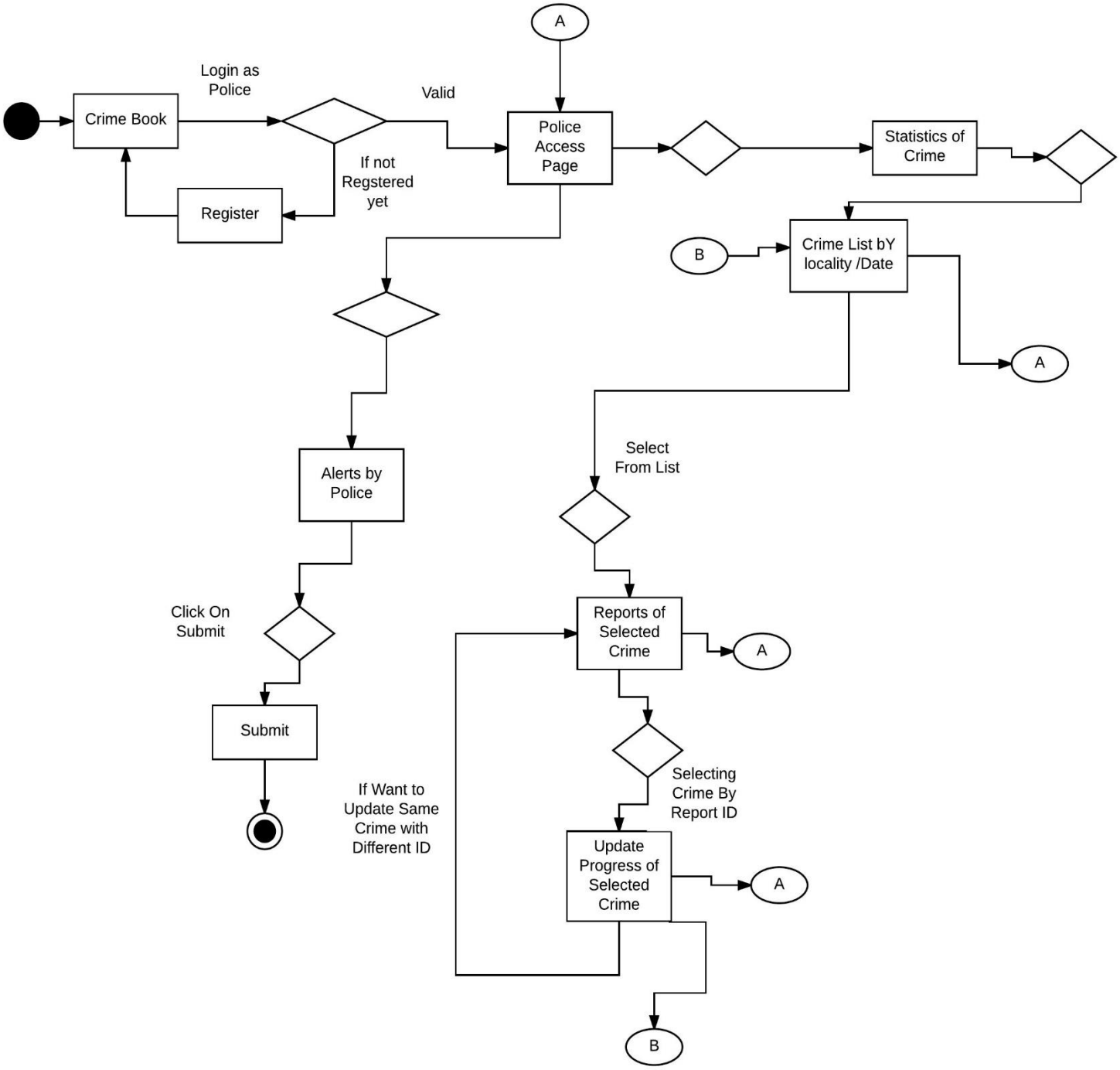
- Victim – Anshul Goyal(14ucs020)
  - To file report and see its status and list of all crimes.



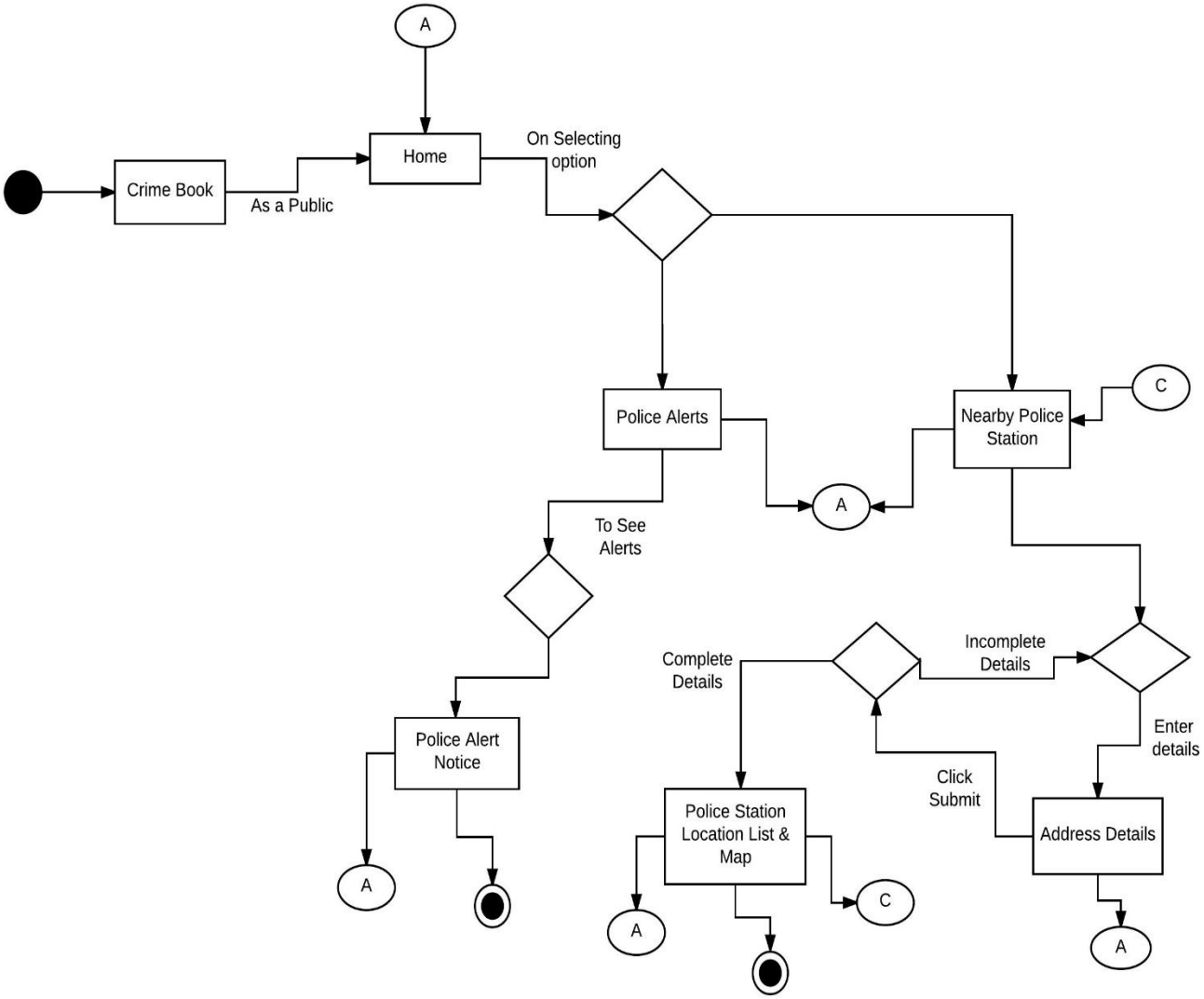
- Police – Aditya Sharma(14ucs007)
  - See list of crimes and update its progress.



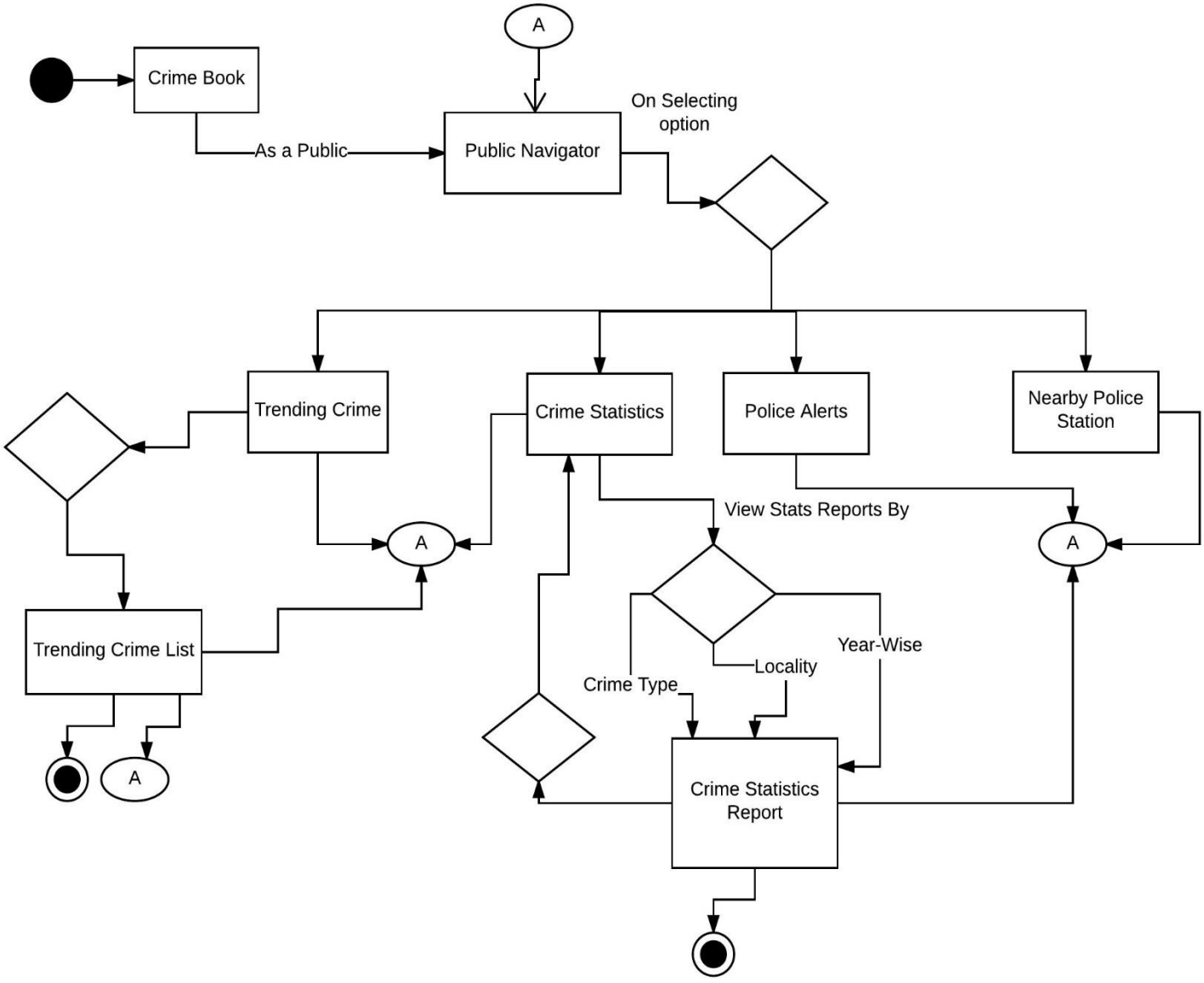
- Police – Vinod Sharma(14ucc042)
  - See list of crime by locality and give alerts to public.



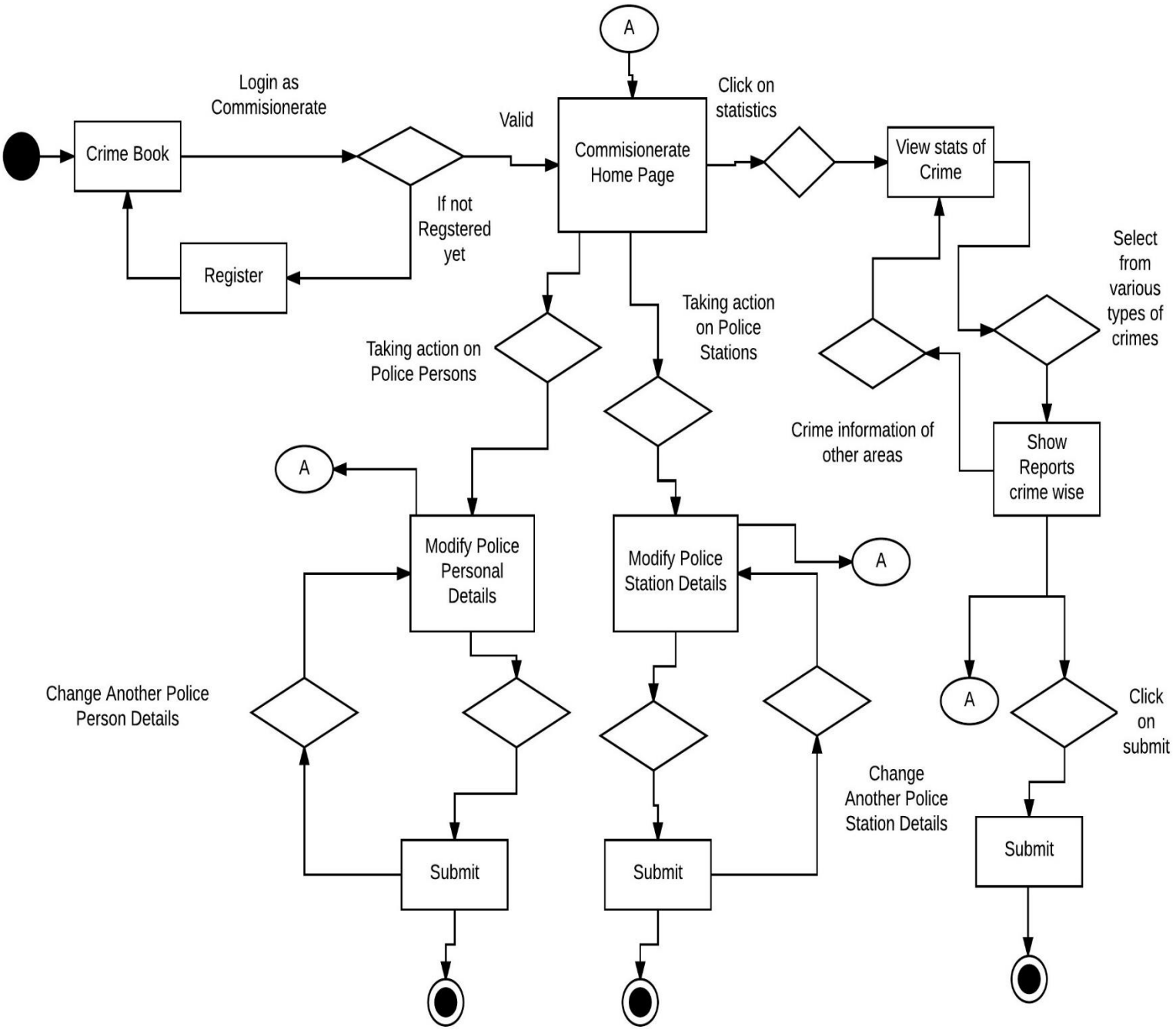
- Public – Harshit Jain (14ucs047)
  - See police alerts as public and view nearby police stations.



- Public – CHHATRAPATI JAIN(14UCS033)
  - See trending crimes and crime statistics by locality or year.

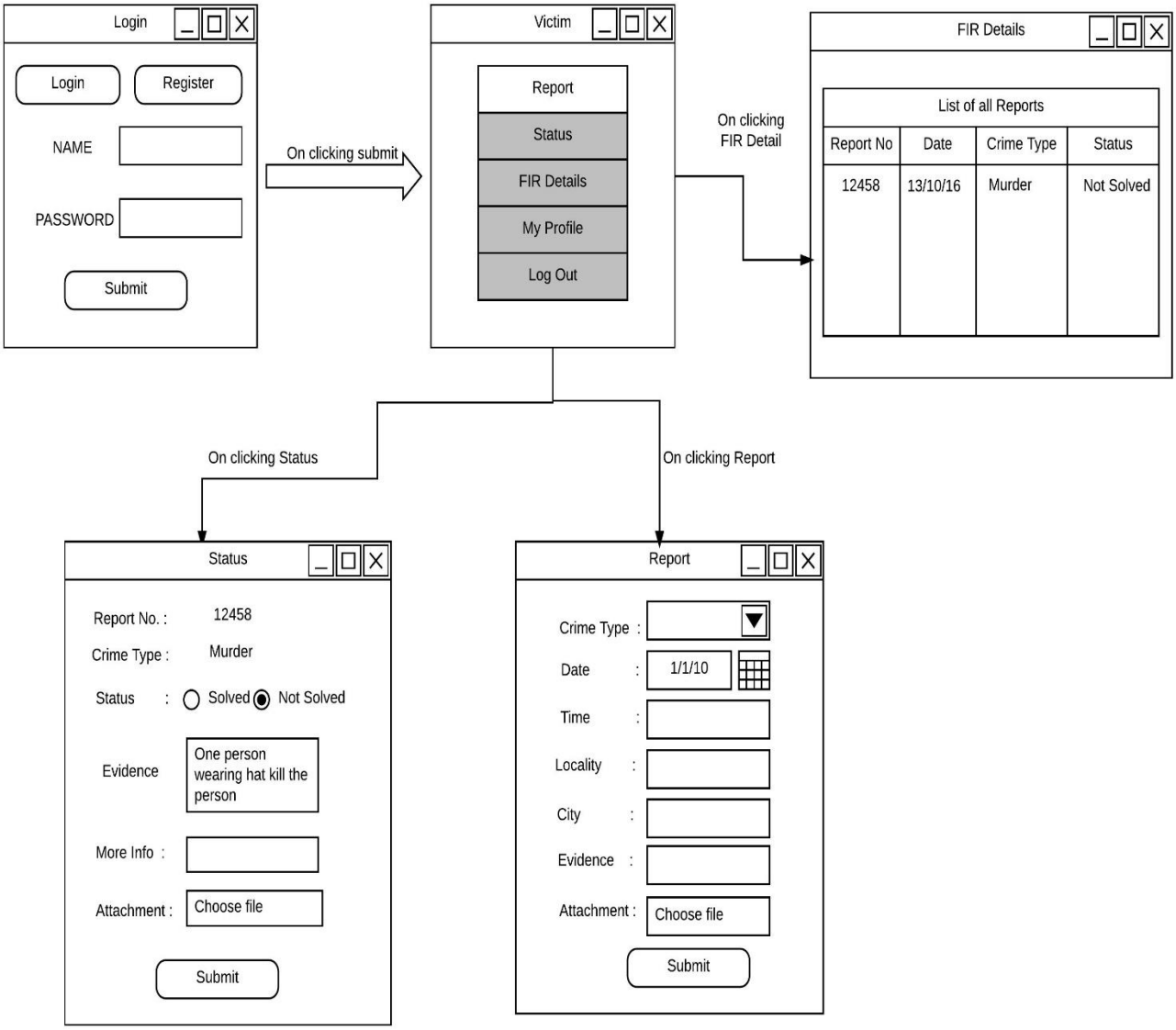


- Commissionerate – Rajat Ranjan(14ucc030)
  - See reports of crime area wise and accordingly modify police person and station details.

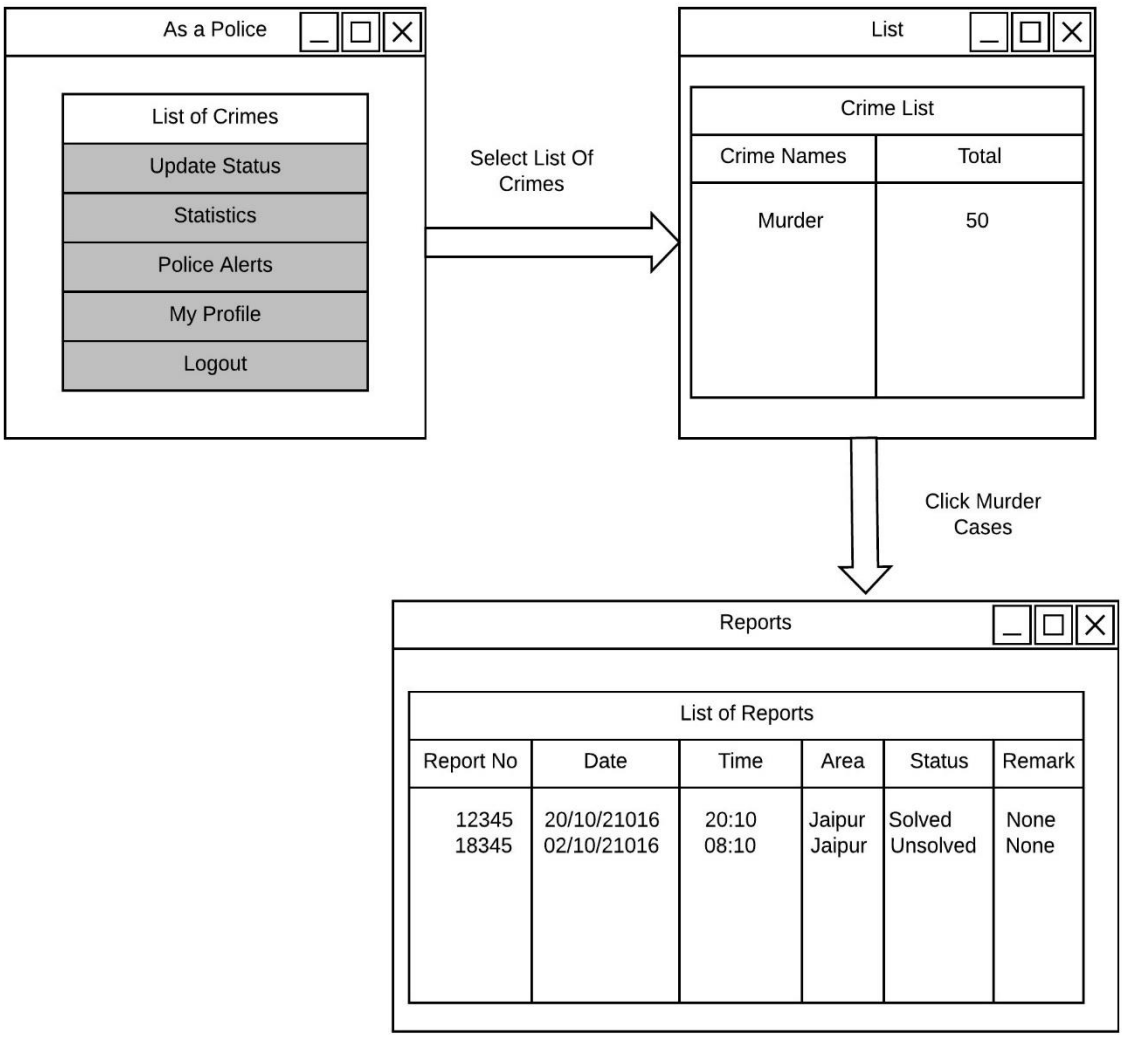


UI/UX Designs (Wireframes) – For the Sprint 2 functionality

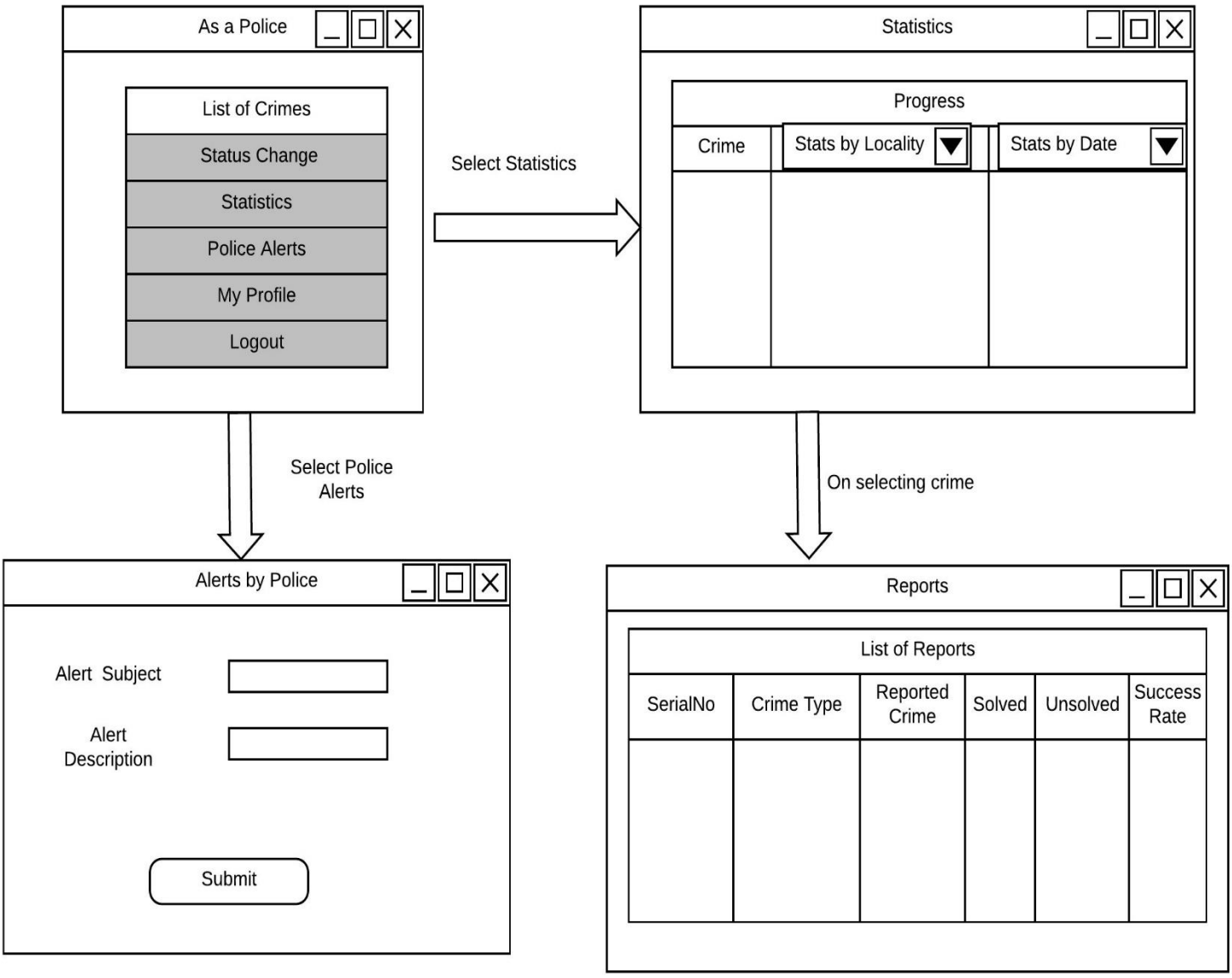
- Victim – Anshul Goyal(14ucs020)



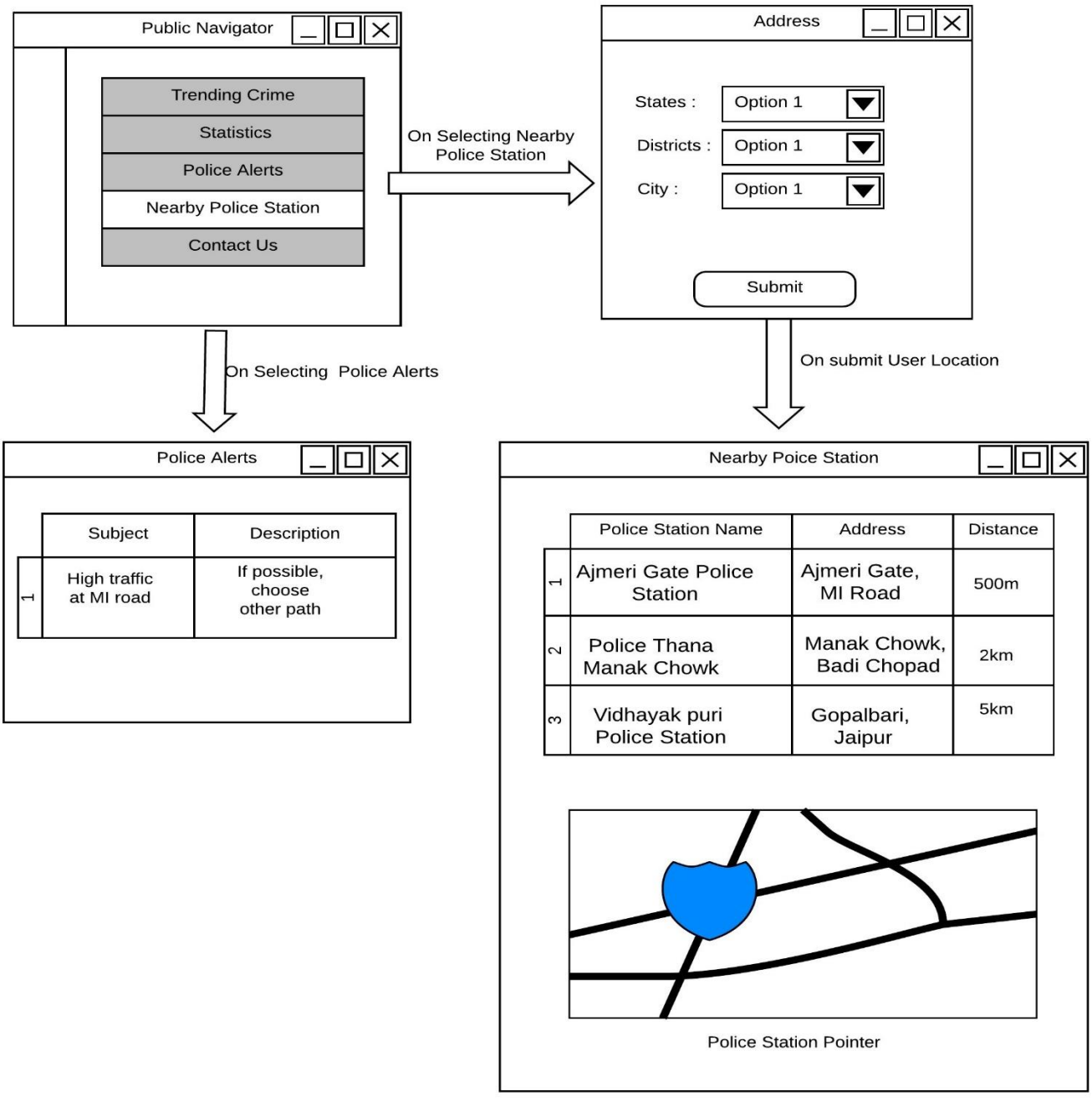
- Police – Aditya Sharma(14ucs007)



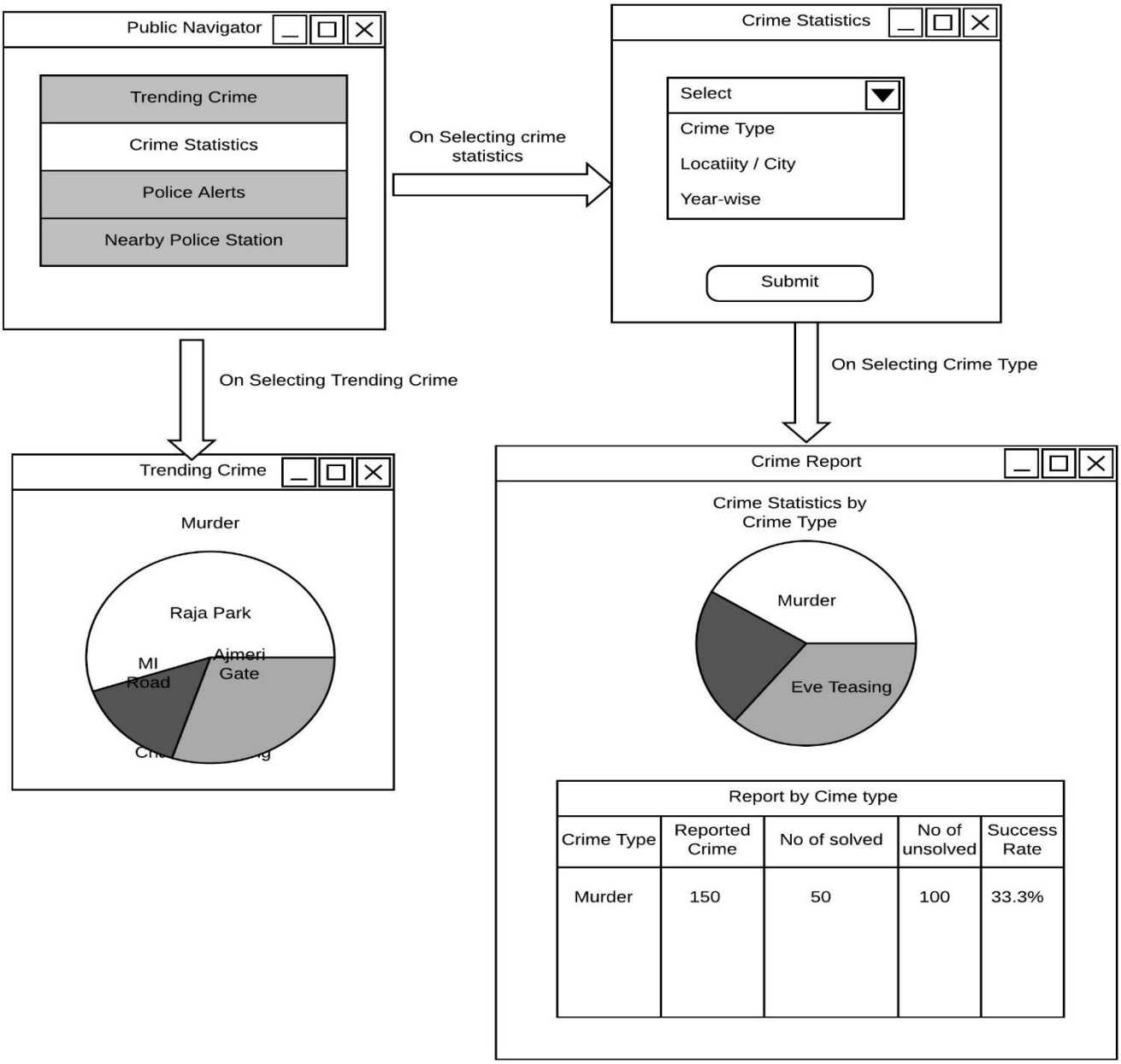
- Police – Vinod Sharma(14ucc042)



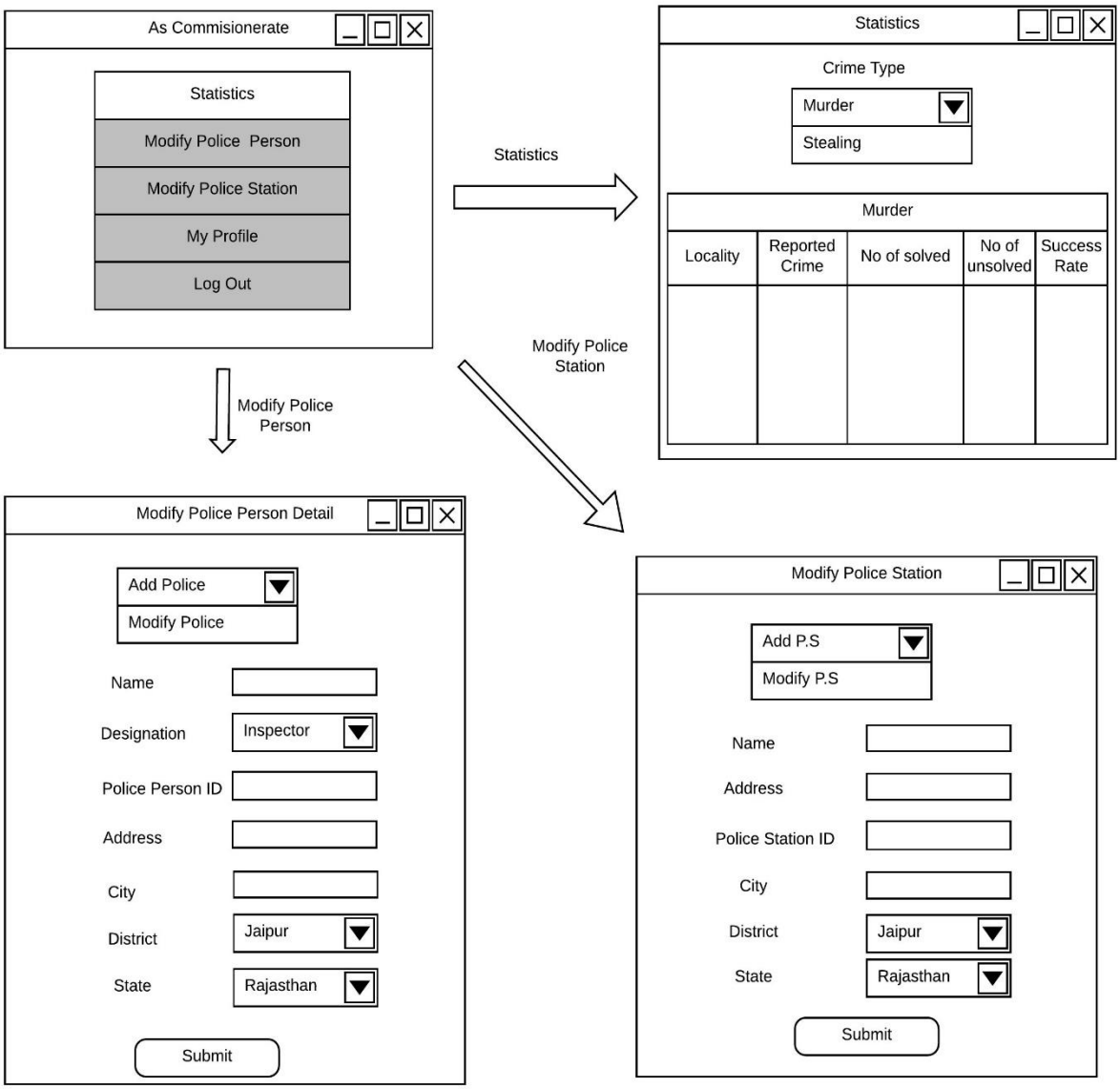
- Public – Harshit Jain (14ucs047)



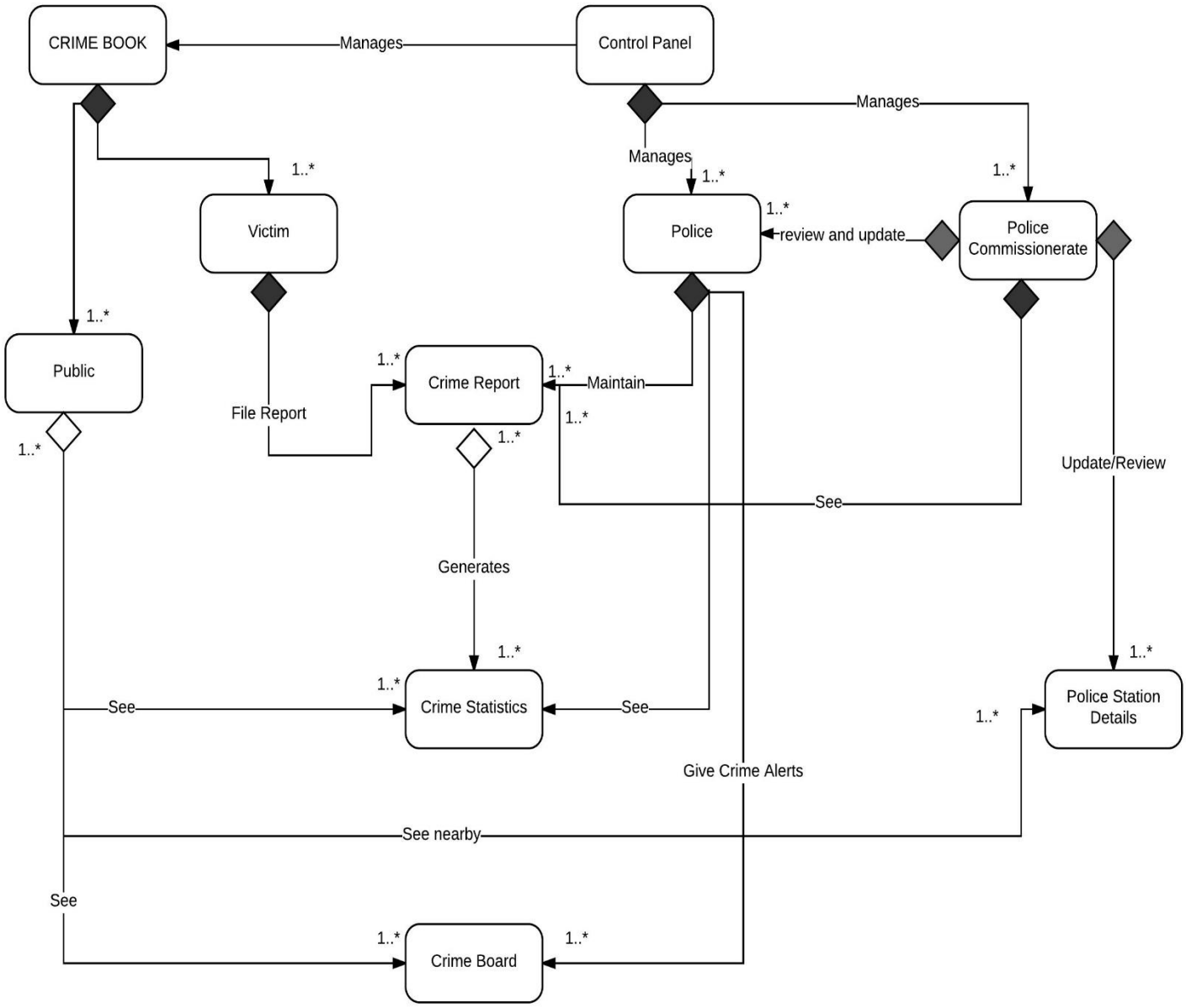
- Public – CHHATRAPATI JAIN(14UCS033)



- Commissionerate – Rajat Ranjan(14ucc030)



Class diagram – Revised and Extended



Class Attributes and Methods

Class	Attribute	Methods
Crime Book	Login ID Password	○ validateCredentials(Id , Pass)
Public	No attribute	○ modifyCredentials(ID)
Crime Statistics	Category	○ statsByLocality(state, locality) ○ statsByYear(year) ○ statsByDate(Date) ○ statsByCrimeType(crime type) ○ generateCrimeTable(crime type , total no of crimes) ○ calculateCrimes(crime type) ○ calculateCrimes(locality) ○ successRate(unsolved , solved)
Crime Board	No attribute	○ showTrendingCrime() ○ giveAlerts()
Crime Report	Report id Crime type Date Locality Time Evidence Status	○ returnID() ○ returnCrimeType()
Control Panel	Login id Password	○ validateCredentials(Id , Pass) ○ assignCredentials(Id , Pass)
Police Commissionerate	No attributes	○ addPolice(details) ○ modifyPolice(Police ID) ○ addPoliceStation(details) ○ modifyPoliceStation(PoliceStation ID) ○ modifyCredentials(ID)

Police Station	Police station id Name Address City State	○ returnPsID() ○ returnPsDetails()
Police Person	Police id Position Rating Name Address City State	○ returnPoliceId() ○ returnPoliceDetail()
Victim	Name Address City State DOB Contact details Email id Gender Pin code	○ setID(curr id) ○ setPass(curr pass) ○ seeStatus() ○ checkFIRList() ○ manageCredentials()

Scrum Minutes of the Meeting (Two entries per week for each team member)

Sprint 2 – Week 1

Team member	Work completed	Work planned	Impediments
Anshul Goyal (14ucs020)	**UI / UX Wireframe** (Victim) , **Activity Diagram** (Victim - To file report and see its status and list of all crimes.)	UI / UX Wireframe , Activity Diagram	No such difficulty because we had that before in sprint 1 also.
Aditya Sharma (14ucs007)	**UI / UX Wireframe** (Police) , **Activity Diagram** (Police - See list of crimes and update its progress.)	UI / UX Wireframe, Activity Diagram	Learned from previous sprint and implemented without any trouble.
Chattrapati Jain (14ucs033)	**UI / UX Wireframe** (Public) , **Activity Diagram** (Public - See trending crimes and crime statistics by locality or year)	UI / UX Wireframe, Activity Diagram	No problem in implementing UI wireframesand Activity Diagram.
Rajat Ranjan (14ucc030)	**UI / UX Wireframe** (Commissionerate) , **Activity Diagram** (Commissionerate - See reports of crime area wise and accordingly modify police person and station details)	UI / UX Wireframe, Activity Diagram	Very little trouble as both the tasks were practised in adequate amount in class.
Harshit Jain (14ucs047)	**UI / UX Wireframe** (Public) , **Activity Diagram** (Public- see police alerts as public and view nearby police stations.)	UI / UX Wireframe, Activity Diagram	Sprint1's practice made it quite easy in designing wireframes and activity diagram was improved.
Vinod Kumar Sharma (14ucc042)	**UI / UX Wireframe** (Police) , **Activity Diagram** (Police- See list of crime by locality and give alerts to public.)	UI / UX Wireframe, Activity Diagram	Difficulty in designing the whole business activity of police.

Sprint 2 – Week 2

Team member	Work completed	Work planned	Impediments
Anshul Goyal (14ucs020)	**Sprint Backlog, Acceptance and testing criteria** (Victim)	Sprint Backlog , Acceptance and testing criteria.	Difficulty in deciding the appropriate acceptance and testing criteria.
Aditya Sharma (14ucs007)	**Sprint Backlog, Estimate and actual points** (Police)	Sprint Backlog, Estimate and actual points.	Problem in thinking actual and estimate points.
Chattrapati Jain (14ucs033)	**Sprint Backlog**, **Estimate and actual points.** (Public)	Sprint Backlog, Estimate and actual points.	Problem in implementing Sprint backlog.
Rajat Ranjan (14ucc030)	**Sprint Backlog**, **Acceptance and testing criteria.** (Commissionerate)	Sprint Backlog, Acceptance and testing criteria.	Faced difficulty in choosing suitable validation points and corresponding estimation points.
Harshit Jain (14ucs047)	**Sprint Backlog**, **Acceptance and testing criteria.** (Public)	Sprint Backlog, Acceptance and testing criteria.	Faced problem in making testing criteria.
Vinod Kumar Sharma (14ucc042)	**Sprint Backlog** , **Estimate and actual points.** (Police)	Sprint Backlog, Estimate and actual points.	Difficulty in choosing user story for sprint 2.

Sprint 2 – Week 3

Team member	Work completed	Work planned	Impediments
Anshul Goyal (14ucs020)	**Class Diagram, Remaining work and report**(Victim)	Class Diagram , Acceptance and testing criteria.	Difficulty in Thinking attributes and methods of classes.
Aditya Sharma (14ucs007)	**Class Diagram, Remaining work and report** (Police)	Class Diagram, Remaining work and report.	Problem in selecting adequate classes
Chattrapati Jain (14ucs033)	**Class Diagram**, **Remaining work and report** (Public)	Class Diagram, Remaining work and report	Had difficulty in deciding methods.
Rajat Ranjan (14ucc030)	**Class Diagram**, **Remaining work and report.** (Commissionerate)	Class Diagram, Remaining work and report	Faced difficulty in associating various classes and applying inheritancs between classes
Harshit Jain (14ucs047)	**Class Diagram**, **Remaining work and report** (Public)	Class Diagram, Remaining work and report	Faced problem in extending classes.
Vinod Kumar Sharma (14ucc042)	**Class Diagram**, **Remaining work and report.** (Police)	Class Diagram, Remaining work and report.	Difficulty in deciding the functioning of classes.

Sprint 2 Summary

SITE LINK : < hikecoupon.com/test/CrimeBook/index.php >

Review Summary (about the product)

1	We made improvements in our previous UI/UX wireframes and added business activity to corresponding activity diagram. This helped us see the gap between estimated flow and actual implemented flow.
2	We completed sprint backlog and acceptance criteria. We learnt to implement user feedbacks successfully and made filters to take valid inputs (acceptance criteria).
3	We completed class diagram and corresponding attributes and the remaining work. This time it was relatively easy to select appropriate classes and connect them wisely.

Retrospective Summary (about the process)

1	This time it was easier to design wireframes , but it took some effort to understand and include business activity.
2	Implementing user stories into our site improved it. Validating and verifying helped to take in genuine inputs.
3	We realized the importance of class diagram, because it gave clarity and saved our time and effort while designing the site.