Daffodil International University

Fall 2020

Department of Computer Science and Engineering

Mid Open Book Examination Answer Script

Full Marks: 25 Allowed Time: 4hrs (from: 09:00   to: 01:00   )

Date: Thursday 5, November 2020

Submission Date: Thursday 5 November, 2020 by 01:00pm

General Information (must be filled by the student)

COURSE CODE: CSE-333   **SECTION:** PC-C   **PROGRAM: DAY**

STUDENT ID: 181-15-1815   **TIME STARTED:** 9:00 AM   **TIME ENDED:** 1:00 PM

[Student must either TYPE or HAND WRITE the answers in this template; In case needed just write your detail on the paper using hand]
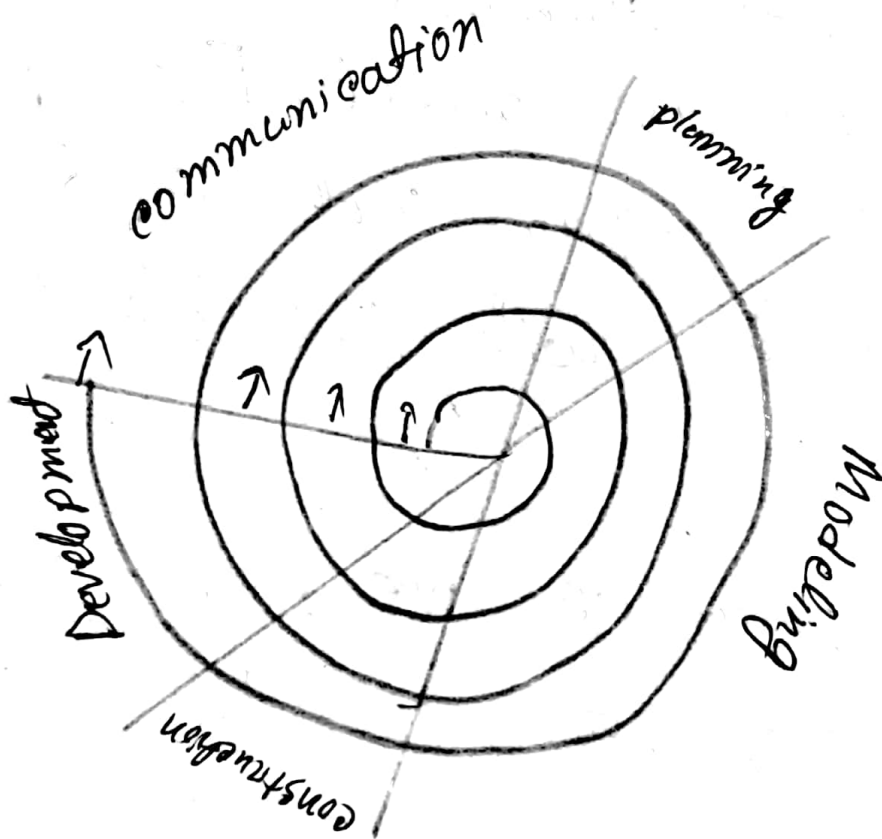
Ismail Hasan Sarkar
181-15-1815   PC-C

Ans to the question no-1 (a)

For the above secnario I'll choose the Spiral model from all software poncess development model.

The are so many reason behind it. Spiral model is a combination of water fall model and iterative model. Each phase in spiral model begins with a design goals and each ends with the client reveiwing the process.

From above secnario we saw that there will be many processes like contacting family / friends, view nearby police station, emergency, file a ~~flems~~ report, withdraw a report , etc. So, for that we can use spiral model.

Also there are other reason to choose spiral model like user requirement, unfamiliar technology, complex system, reliable system and strong project management. In these case spiral are widely used

For the above scenario I made a decision helping to make a mobile application based on women safety issue. There are some requirement given but not sure how to implement.
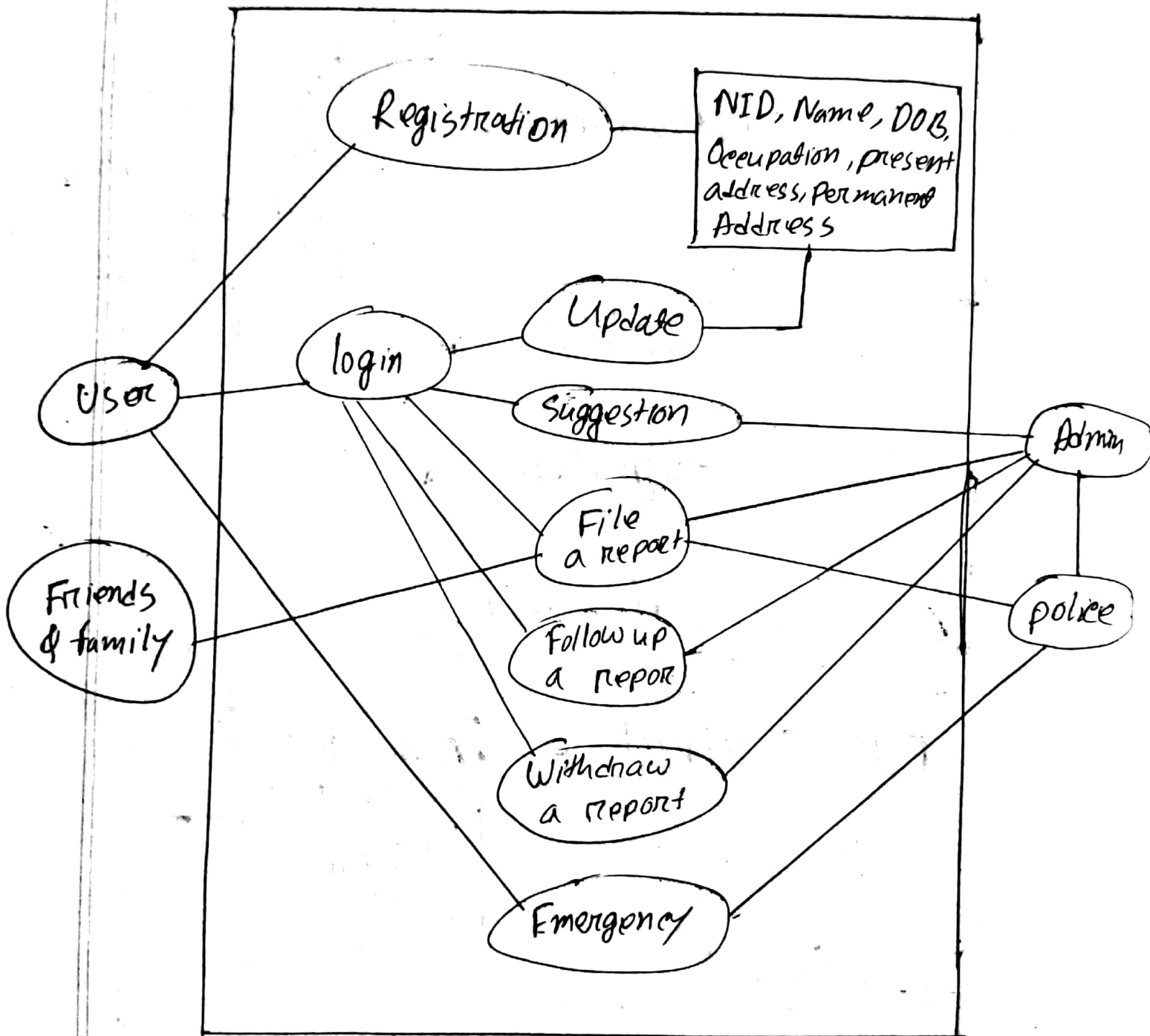
Now I'm completing the story to make that application in proper way. As this app is made for security purpose and only for women, that's why we need to ensure that it's used by them. So, we have to add login and registration system and to verified that user need to submit their NID or smart card. There's also need an admin panel to control the hole system.

Though the app is made for giving fastest support possible. I have to ensure SOS features. SOS feature is a new

technology that user can contact with nearest police station and trusted contact that added by user and also get immediate help the location also share with this features. As there is no time for open the app login and then report a problem while emergency for that we need to add feature like to shake the phone in such a way that at automatically using the GPS and do all the work. Yes, there will be also some manual work to do like report a case online and withdraw and follow-up report and all the safety law must include into the App. In these way we can complete the app and women will be secure there's a probem.

Ans do the Question No-2

Ans: Use Case Diagram of the given case.

Ans to the question no-3

Use case description for "Emergency".

Use case: Emergency.

Actors : User (Women)

Type : Primary and essential.

Description: The women ~~will~~ call emergency with her family member, friends, cousins. GPS system also add and family member and police station also get notification with the area. They can take action.

Cross Ref: For emergency purpose

Use cases : Log in

Use case description for "File a report".

Use case: File a report.

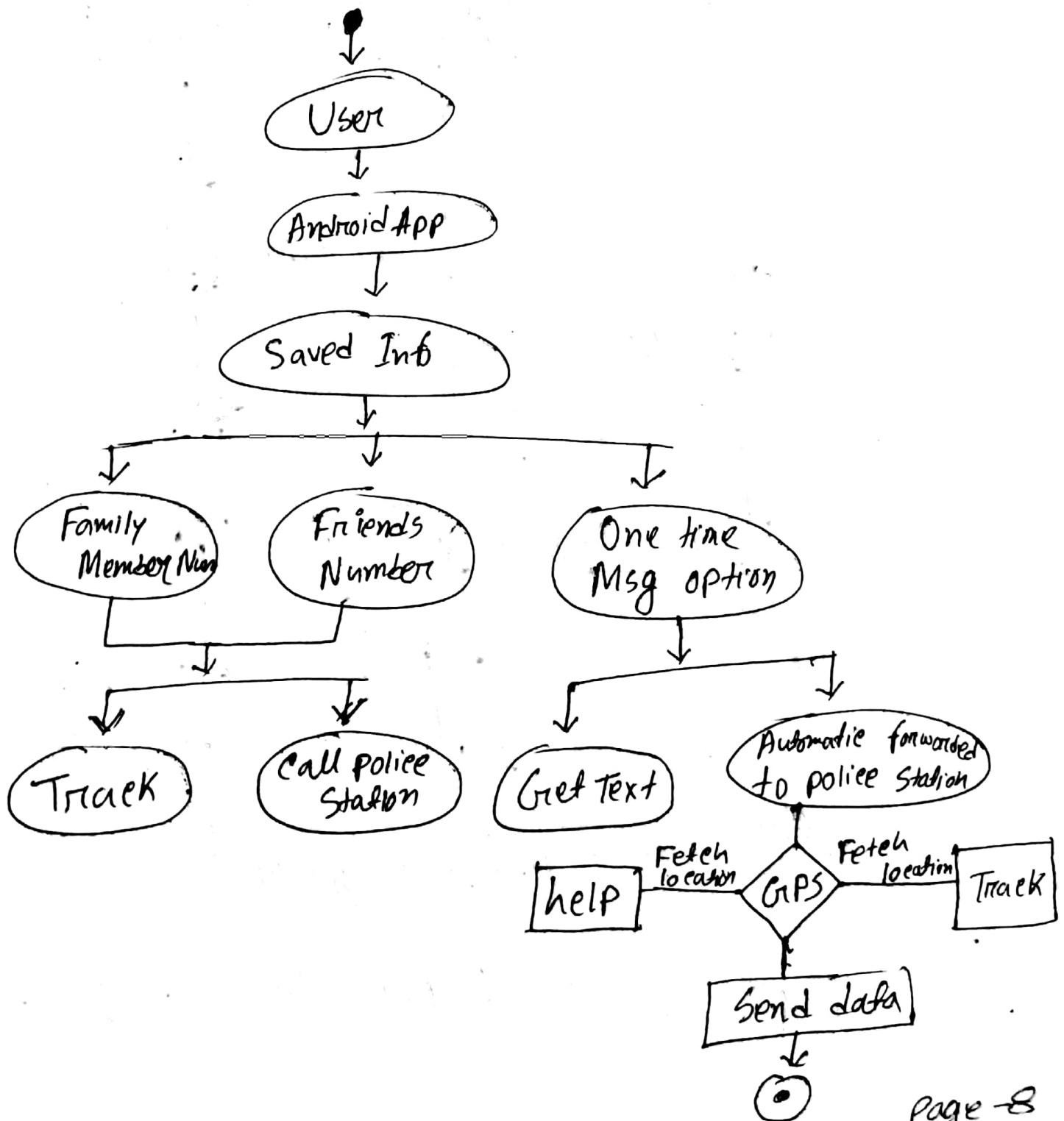Actors : Police Station.

Type: Primary and secondary. essential.

Description: Check the emergency call or hepline.
GPS system then identify the address
and create a report or no action.

Cross Ref : Take necessary Steps about harassment

Use cases : Perform withdraw report and follow
up.

Ans to the question No-4

Activity diagram for the "Contact Family/Friends"
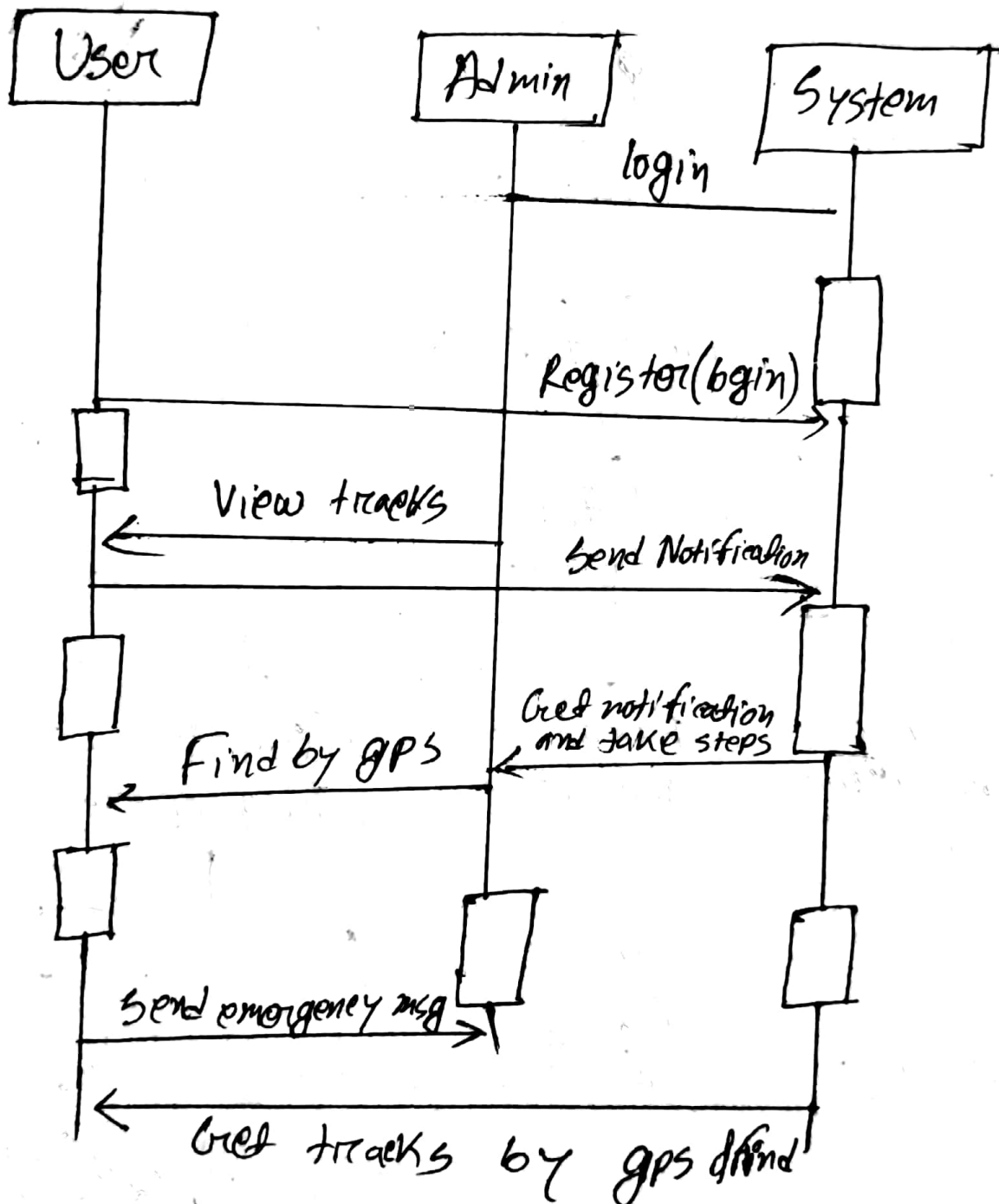
Ans to the question No-5

(A)

Fig: Sequence diagram for "Emergency".

→ GUI or graphical user interface for "contacting Family / Friends"

Hey User.
We're here for you.

🔔 Emergency call 999

Father 📞

Mother 📞

Friend 1 📞

Cousin 📞

⌂ Share my locatin
👤 Contact Details
🕐 Help and support

Emergency Voice Message