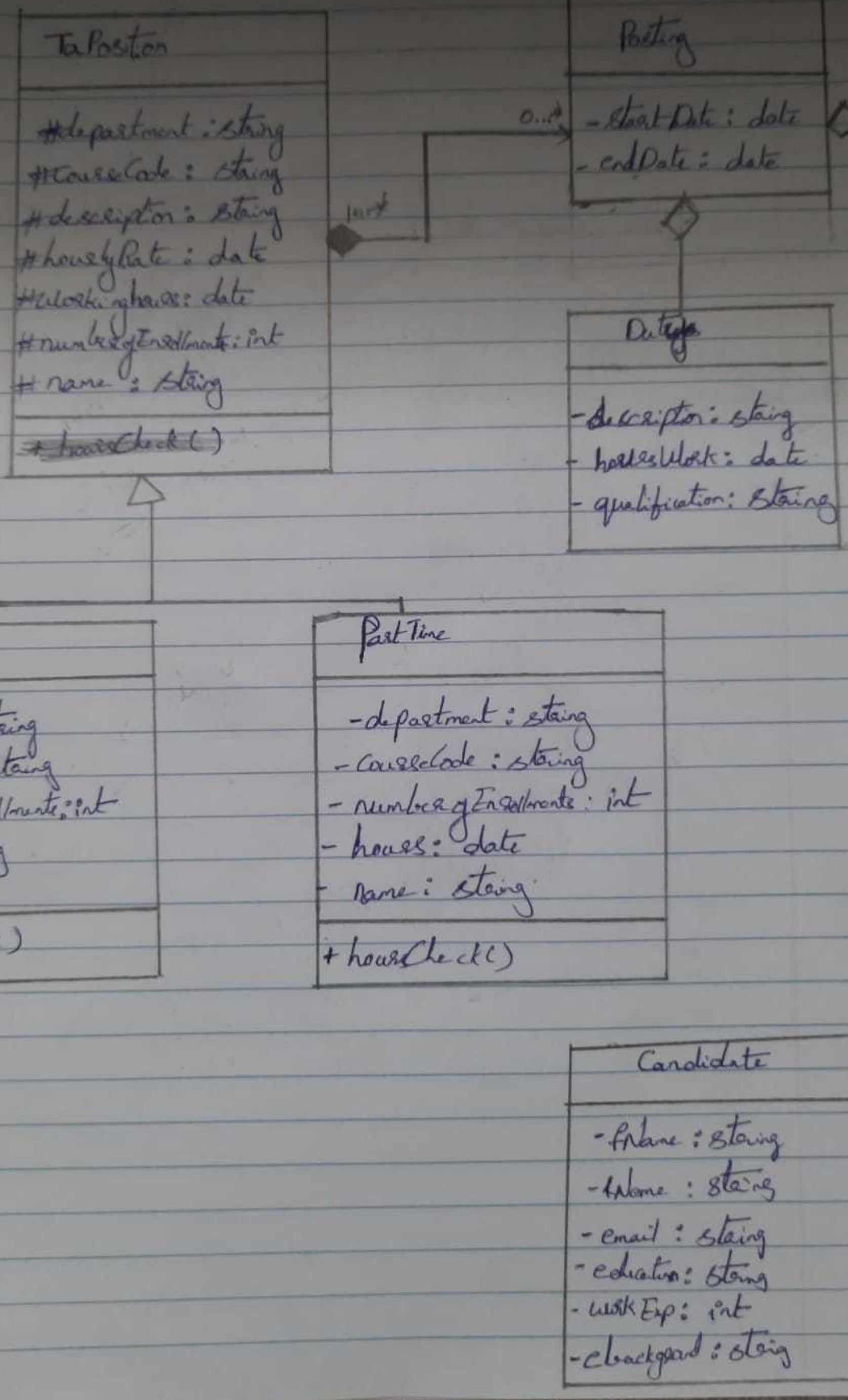
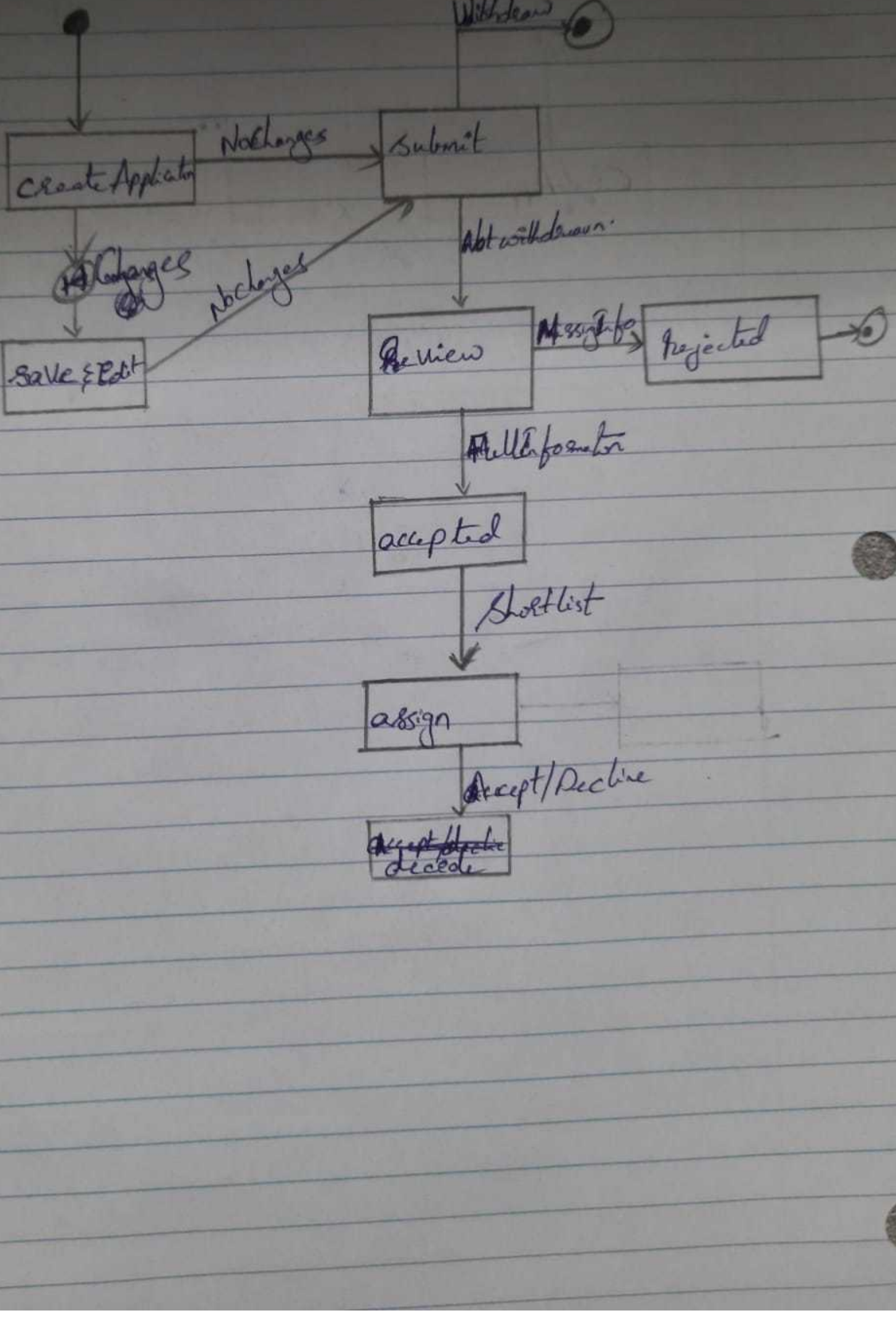
Q1)

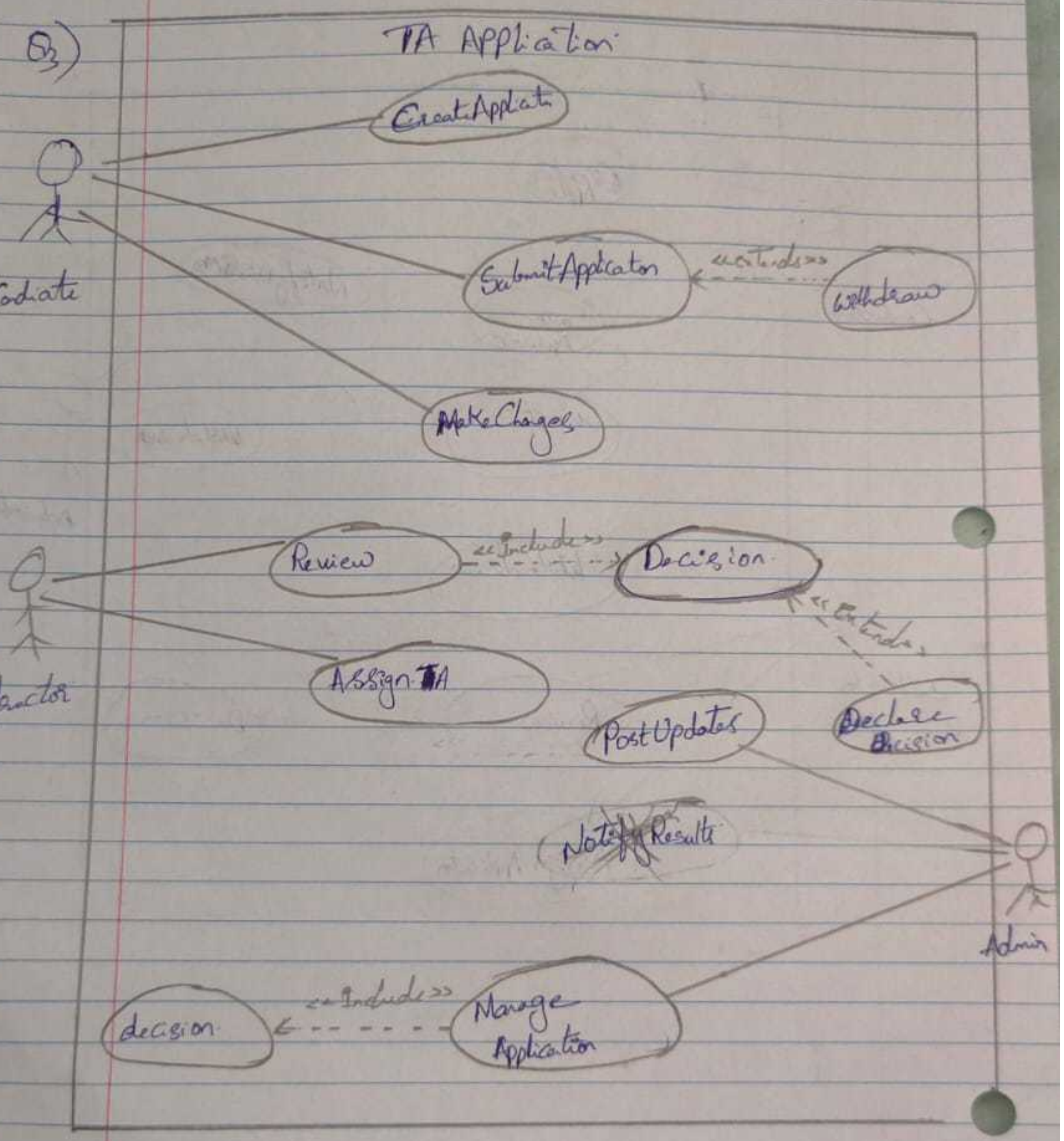

TaPosition
#department : String
#courseCode : String
#description : String
#hourlyRate : date
#workinghours: date
#numberOfEnrollments: int
#name : String
+ hoursCheck()
Posting
0...*
- startDate : date
- endDate : date
1
1..1*
DataType
- description : string
- hoursWork : date
- qualification : String
FullTime
- department : string
- courseCode : string
- numberOfEnrollments : int
- name : String
- hours : date
+ hoursCheck()
PartTime
- department : string
- courseCode : string
- numberOfEnrollments : int
- hours : date
- name : string
+ hoursCheck()
Candidate
- fName : String
- lName : string
- email : string
- education : String
- workExp : int
- cbackgard : string
0..*

Q2)


Withdraw
Create Application
No changes
Submit
Changes
No changes
Save & Edit
Abt withdrawn
Review
Rejected
Accepted
Shortlist
assign
Accept/Decline
Decide

Q3)

TA Application



(4) Model View Controller can be applied here by by creating a Taposition model class, View class which can display all the details & a controller class which can check the logic of the system. The benifits of model view controller are

→ Easy maintainance
→ Easy planning.
→ Test driven results.

2) Taposition is the abstract class in my class diagram, all the objects are either private & protected so they are encapsulated. We are dividing the each class to do a specific task, here we are seperation each task, so we are following seperation of concerns principle.

3) I would disagree with the statements, infact creating models helps to identify errors in the begining itself. Creating a Usecase diagram tells what the application can do. State diagram tells how the application behaves, Class diagram shows the blueprint of the code, & Relationship between objects.