

Design Diagrams

-Varshitha M K (15IT151)

Use Case Diagram

Actor: Student

Description: Student login to the system and if correct credentials are given then he can view the list of all the classes else he has to login into the system again. He can post remarks about the topic which are covered in the class by the teacher which will be updated to the database

Actor: Teacher

Teacher login to the system and if correct credentials are given then he can view the list of all the classes else if he has to login to the system again. He can add new batches classes also modify new classes and batches which are updated to the database.

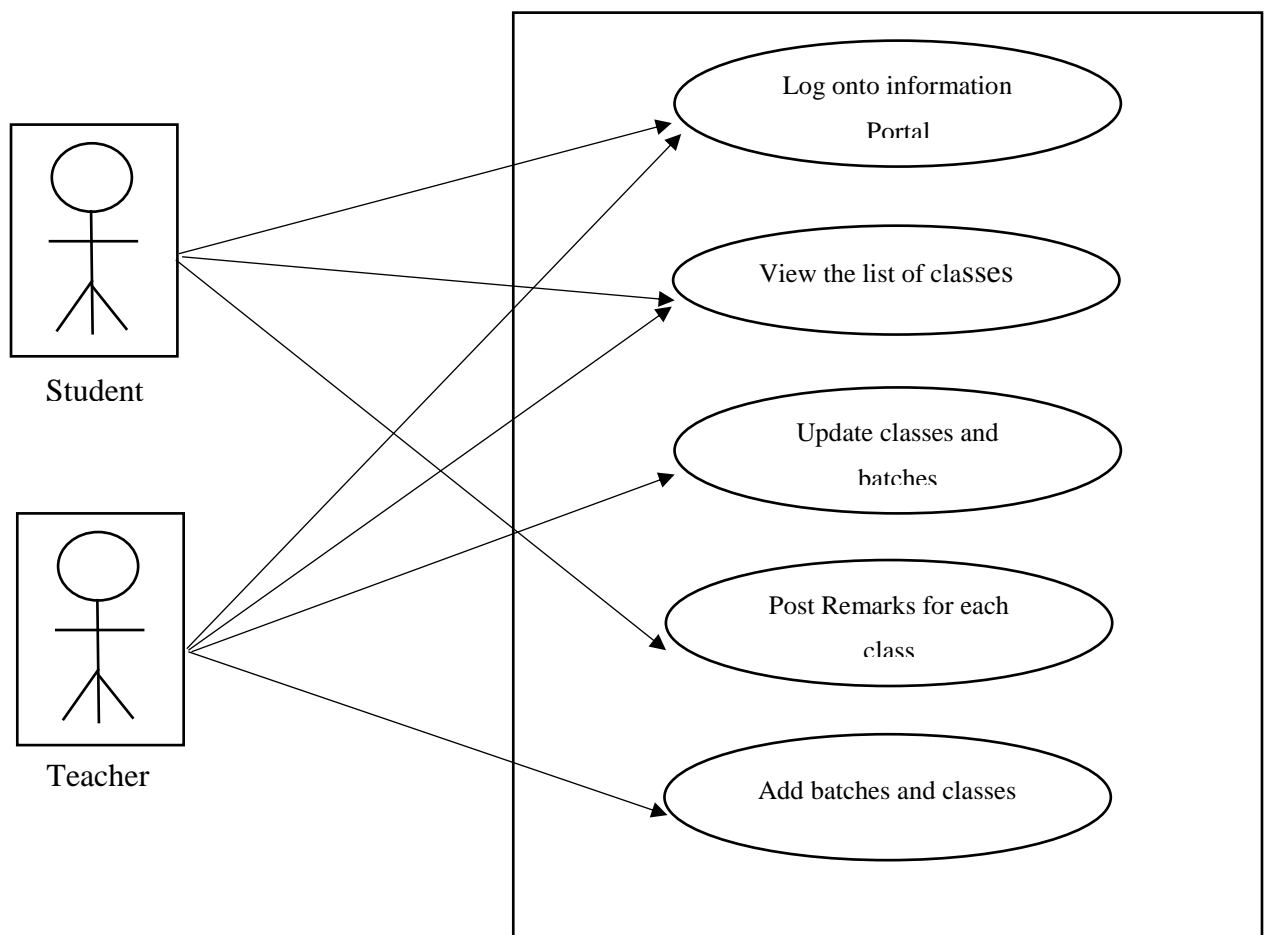


Figure 1: Use case diagram

Class Diagram

Student login to the system and he can post remarks about the topic which are covered in the class by the teacher which will be updated to the database. Teacher login to the system and he/she can add new batches /classes also modify new classes and batches which are updated to the database and eventually set the reminder.

Generated using Argo UML Tool

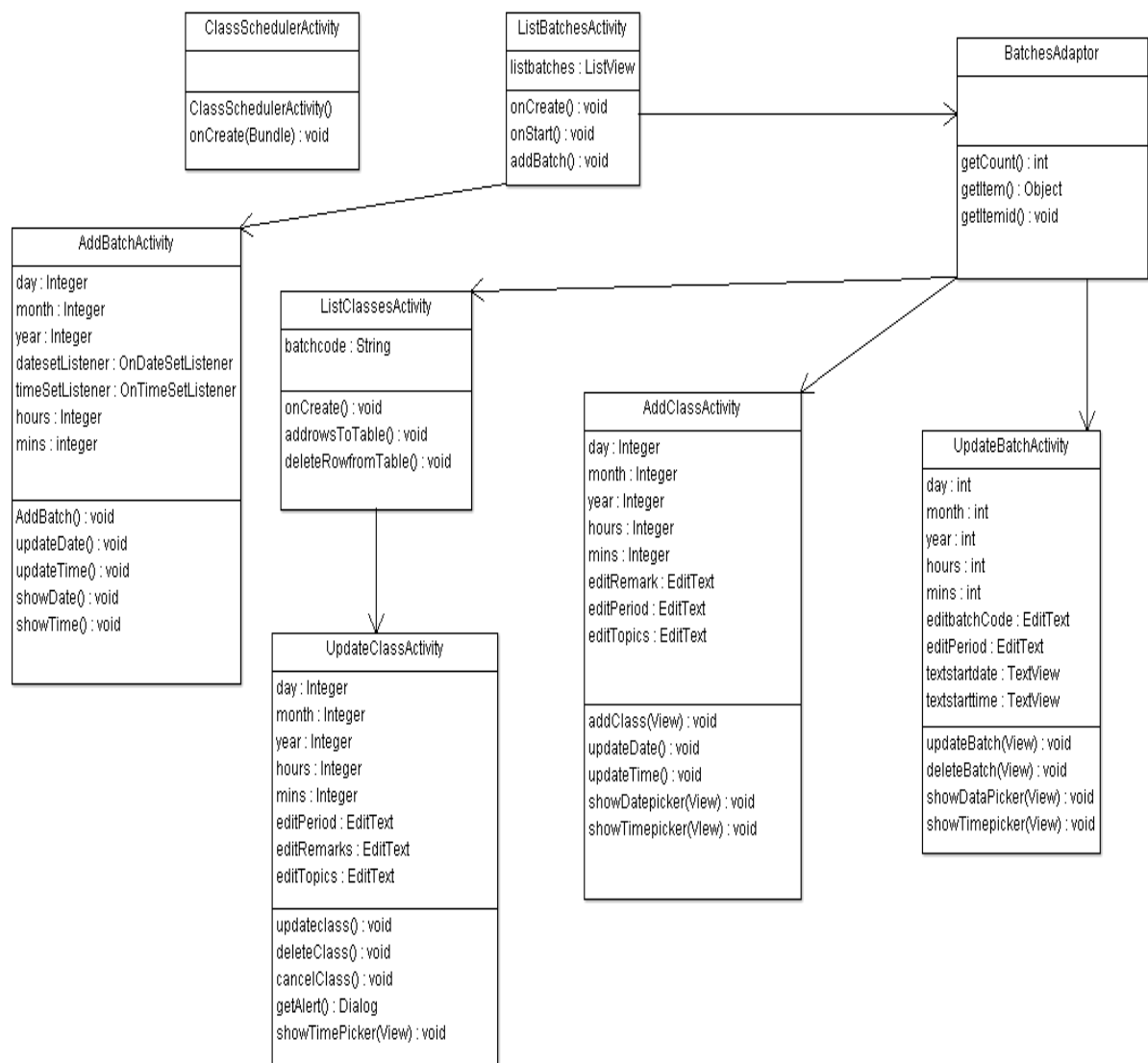


Figure 2: Class Diagram

Class Diagram generated using Eclipse IDE

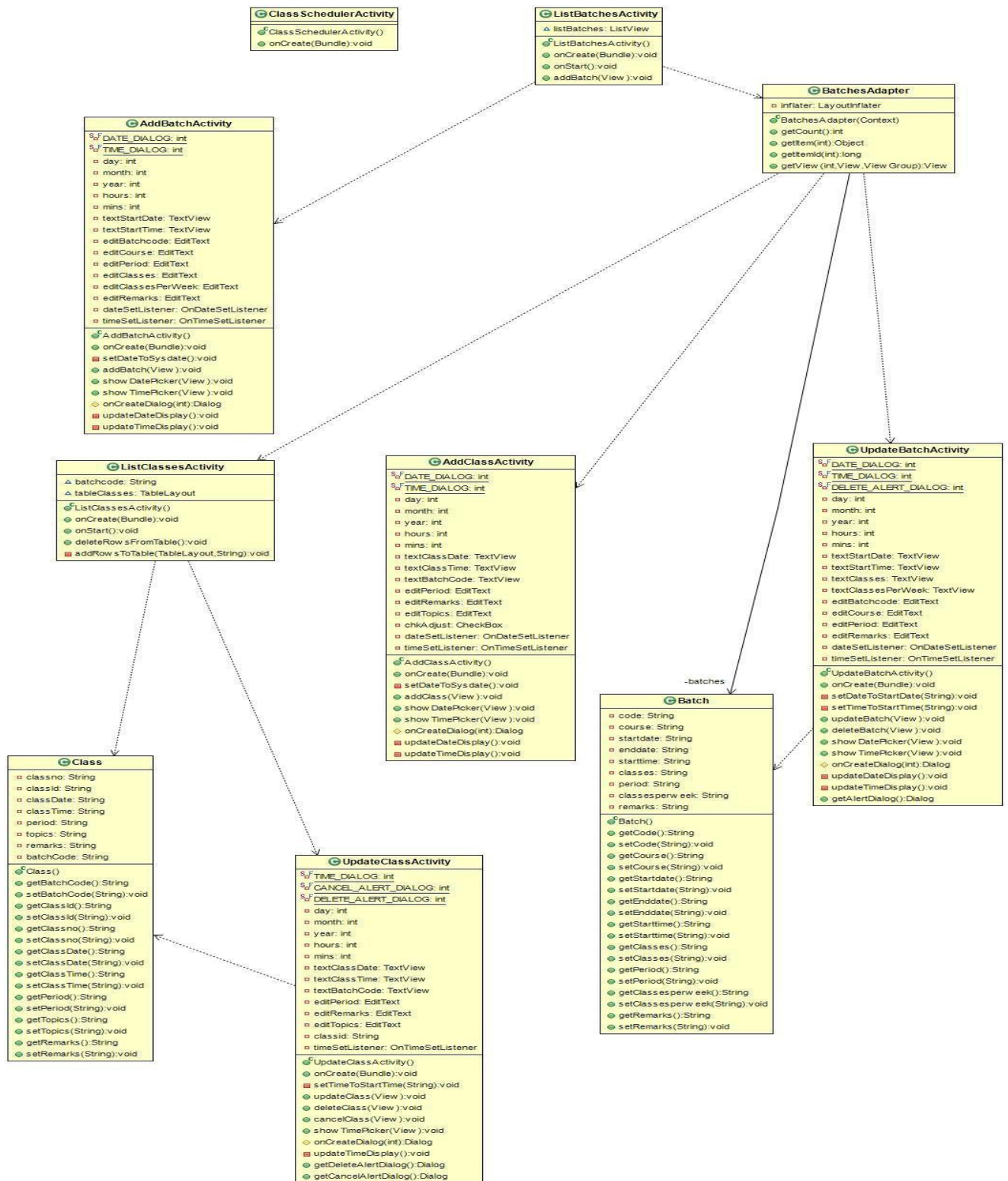


Figure 3: Class Diagram (Eclipse)

Data Flow Diagrams

Student login to the system and if correct credentials are given then he can view the list of all the classes else if he has to login to the system again. Teacher login to the system and if correct credentials are given then he can view the list of all the classes else if he has to login to the system again. He can add new batches /classes also modify new classes and batches which are updated to the database.

Context Free Diagram (DFD 0)

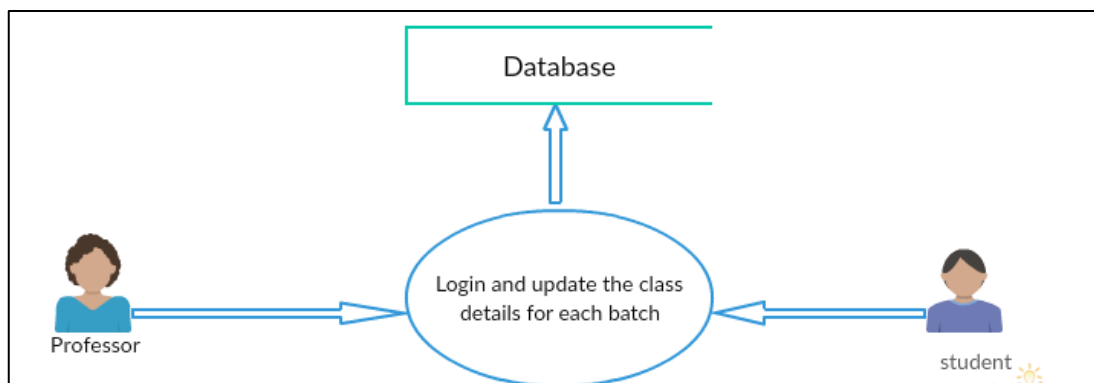


Figure 4: Context Free Diagram

DFD Level 1

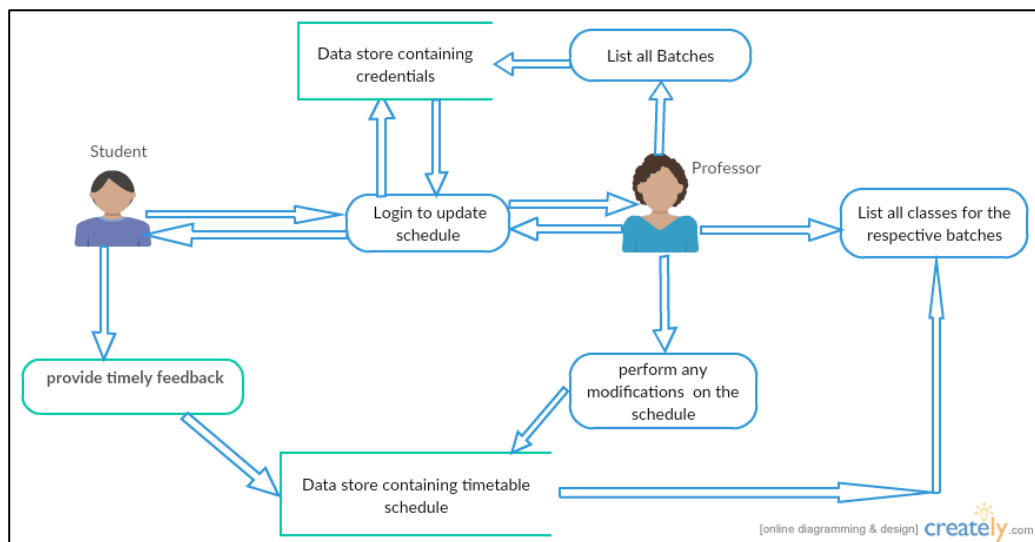


Figure 5: Data Flow Diagram (DFD1)

Collaboration Diagram

Student login to the system and if correct credentials are given then he can view the list of all the classes else if he has to login to the system again. He can post remarks about the topic which are covered in the class by the teacher which will be updated to the database. Teacher login to the system and if correct credentials are given then he can view the list of all the classes else if he has to login to the system again. He/she can add new batches /classes also modify new classes and batches which are updated to the database.

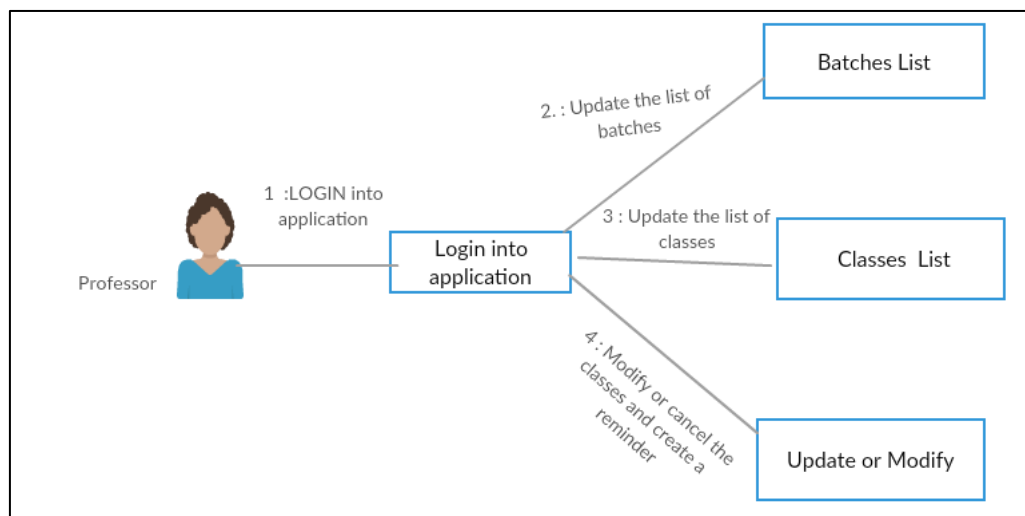


Figure 6: Collaboration Diagram of Professor

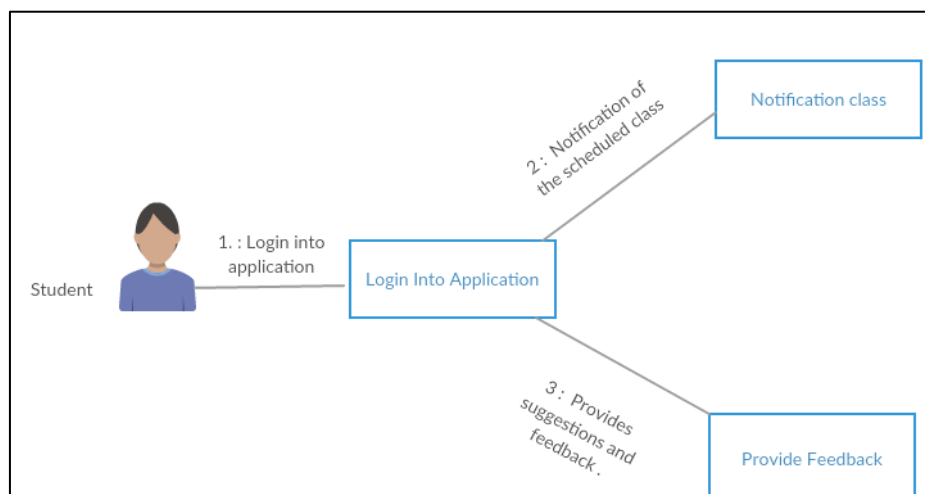


Figure 7: Collaboration Diagram of Student

Control Flow Diagram

Student login to the system and if correct credentials are given then he can view the list of all the classes else if he has to login to the system again. He can post remarks about the topic which are covered in the class by the teacher which will be updated to the database. Teacher login to the system and if correct credentials are given then he can view the list of all the classes else if he has to login to the system again. He/she can add new batches /classes also modify new classes and batches which are updated to the database.

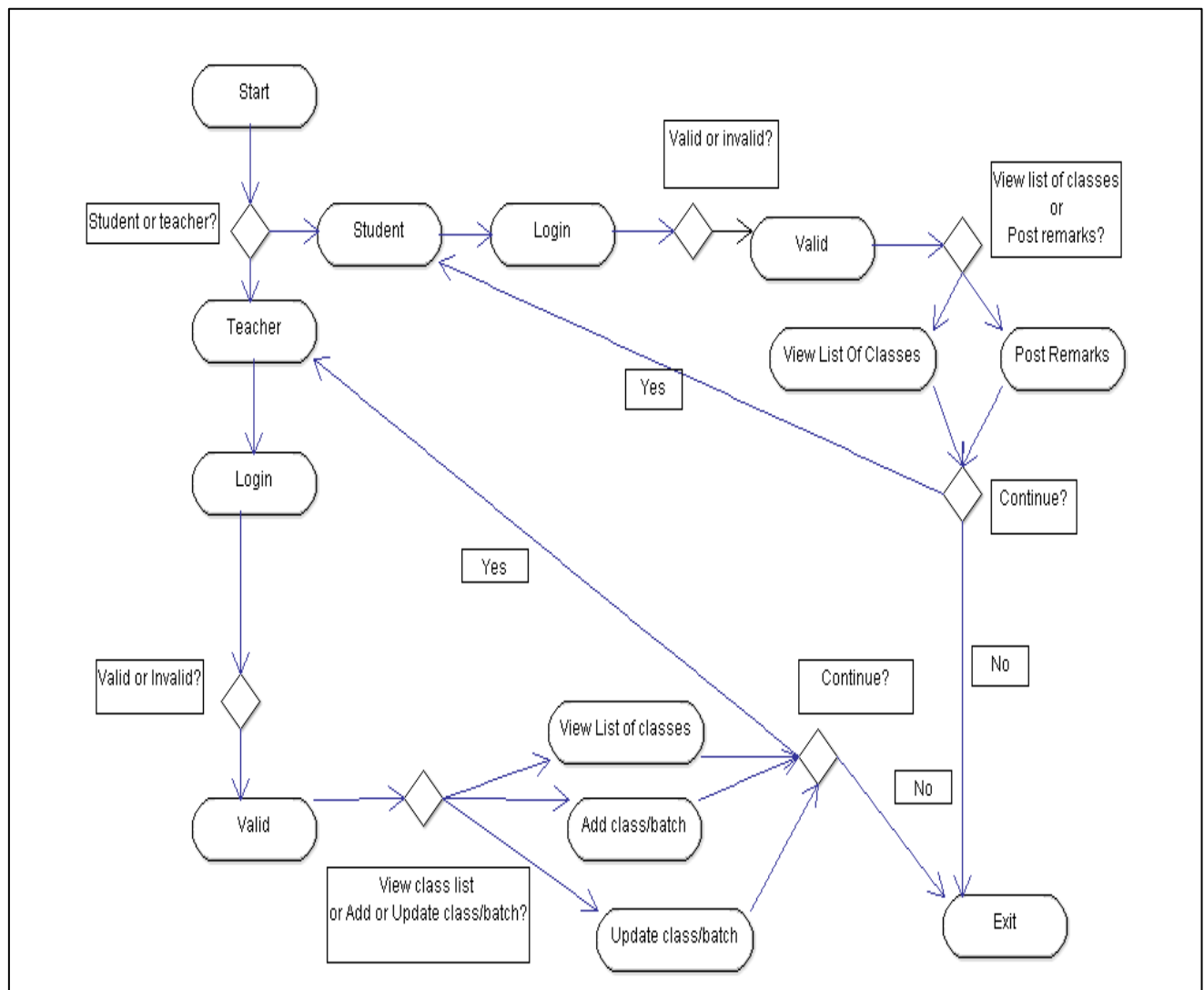


Figure 8: Control Flow Diagram

Interaction Diagrams

Swim lane Diagrams

Student Swim lane Diagram:

Student logs in to the system, interacts with the interface and then username and password will be validated using the username and password information stored in the database. Once he logs in to the system he views all the classes and can post the remarks on the topics discussed in the class by the teacher.

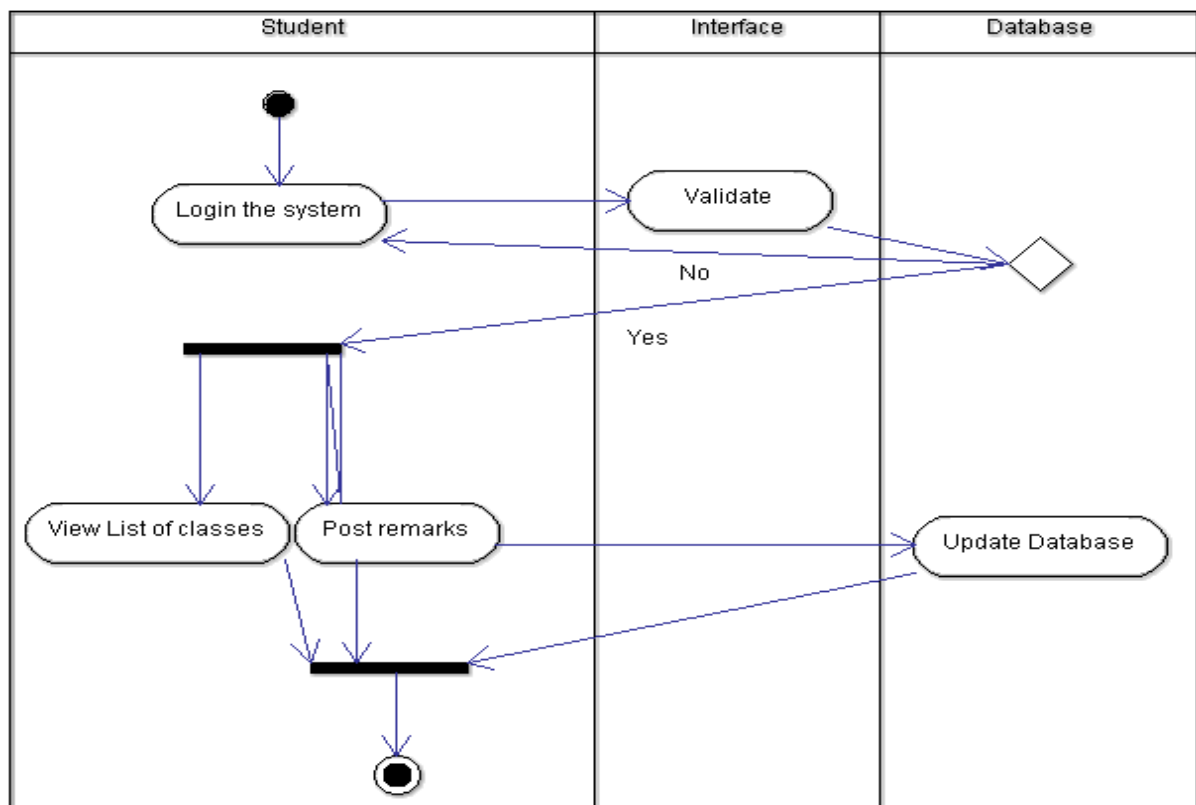


Figure 9: Swim lane Diagram of Student

Teacher Swim lane Diagram

Teacher logs in to the system, interacts with the user and then username and password will be validated using the username and password information stored in the database. Once he logs in to the system he views all the classes add the new classes/batches and update classes/batches which are updated in the database.

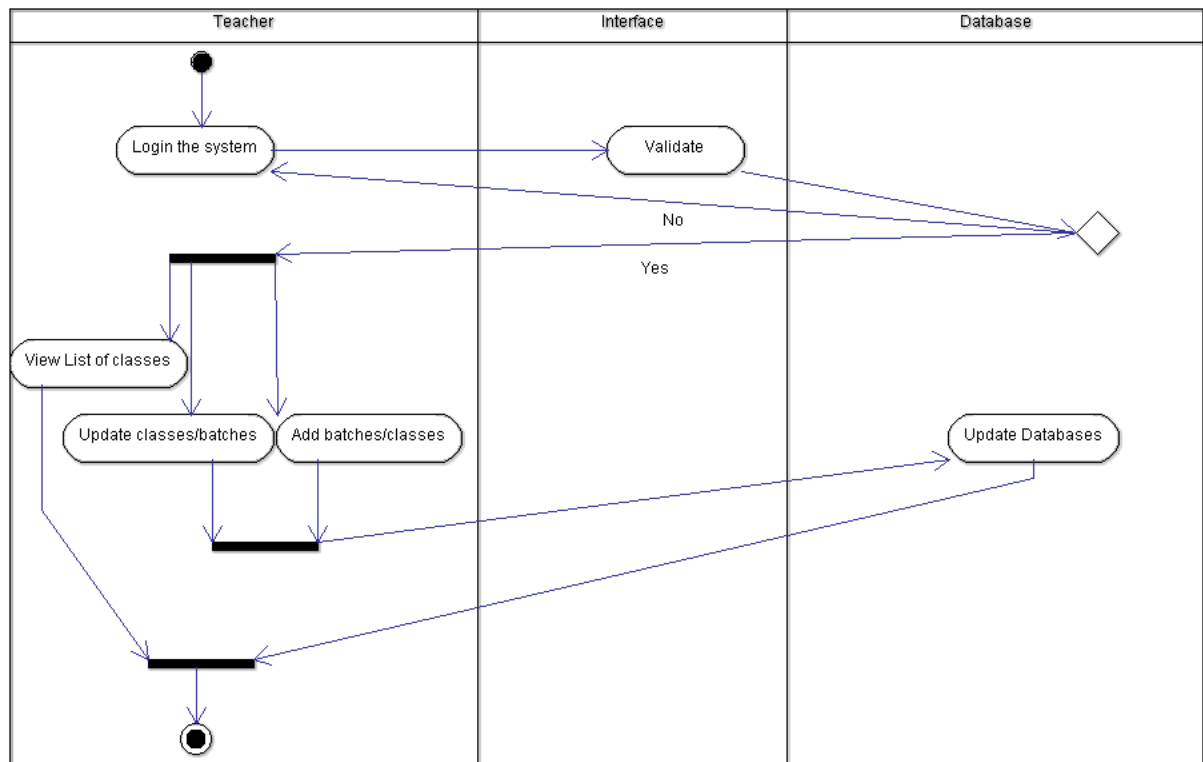


Figure 10: Swim lane Diagram of Teacher

Sequence Diagrams:

- Student View Class Sequence Diagram

Student logs in to the system and interacts with the interface. Then username and password will be validated using the username and password information stored in the database .Once he logins to the system he views all the classes

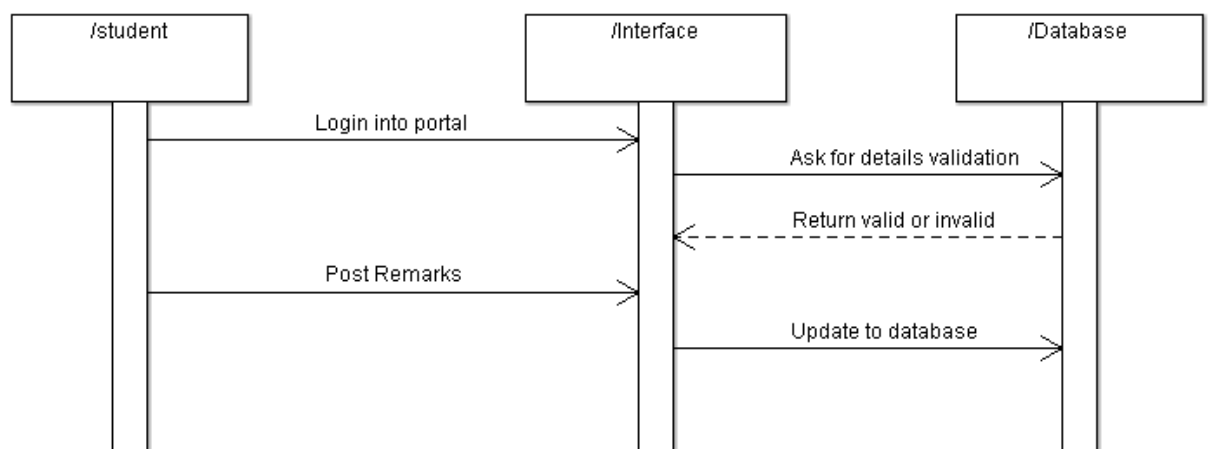


Figure 11: Sequence Diagram-View Class List (Student)

- Teacher View Class Sequence Diagram

Teacher logs in to the system and interacts with the interface. Then username and password will be validated using the username and password information stored in the database. Once he logs in to the system he views all the classes.

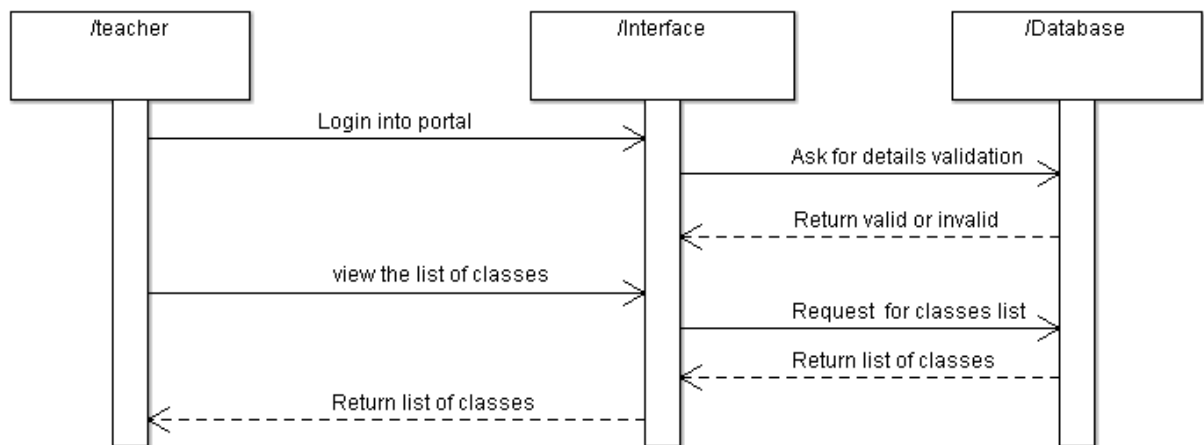


Figure 12: Sequence Diagram -View class list

- Student Post Remark Sequence Diagram

Student logs in to the system and interacts with the interface. Then username and password will be validated using the username and password information stored in the database. Once he logs in to the system he post the remarks on the topics discussed in the class by the teacher.

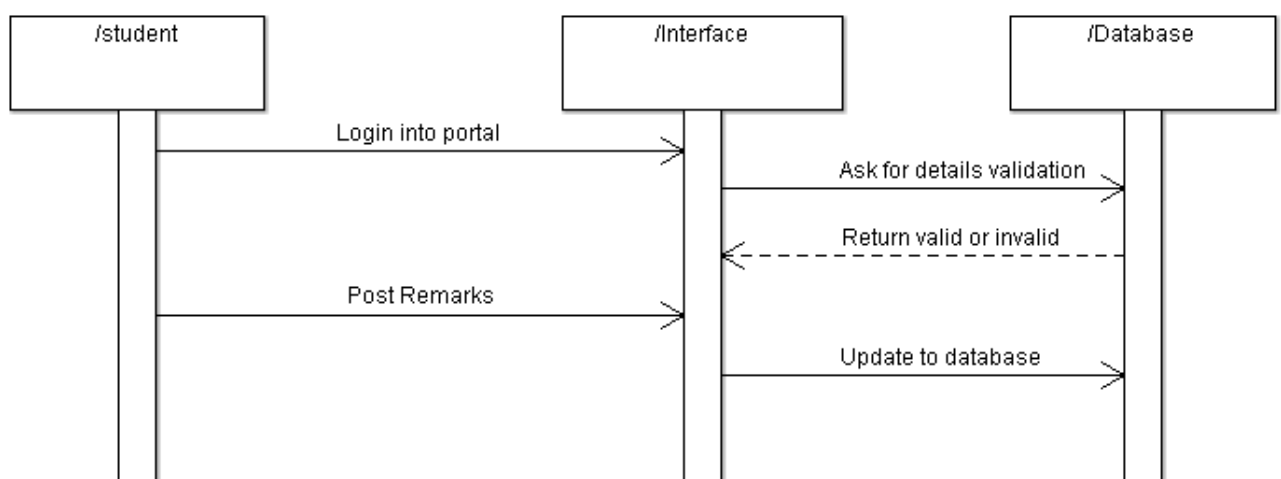


Figure 13: Sequence Diagram-Post Remarks

- Teacher: Add New Classes/Batches Sequence Diagram

Teacher logs in to the system and interacts with the interface. Then username and password will be validated using the username and password information stored in the database. Once he logs in to the system he can add new classes/batches which are updated in the database.

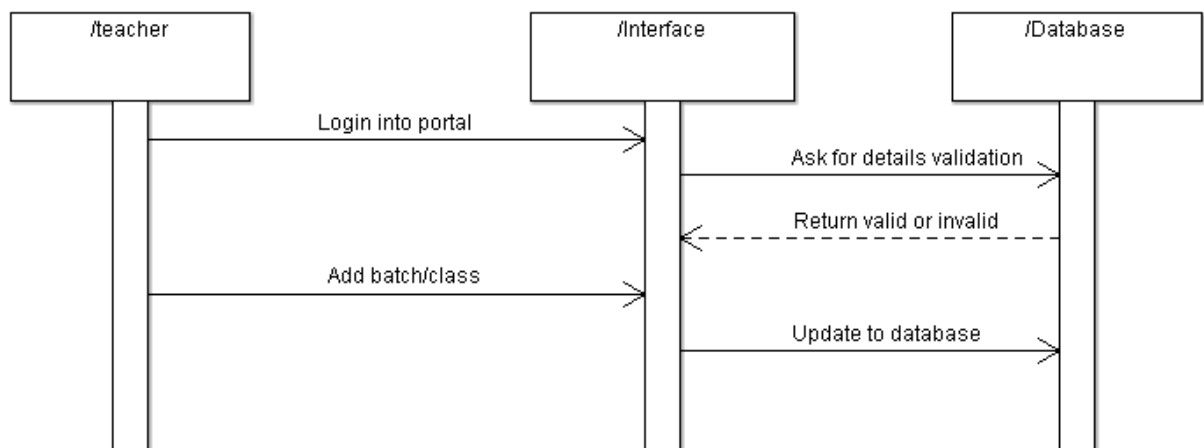


Figure 14: Sequence Diagram-Add New Classes/Batches

- Teacher Update Classes/Batches Sequence Diagram

Teacher logs in to the system and interacts with the interface. Then username and password will be validated using the username and password information stored in the database. Once he logs in to the system he can update the classes/batches which are updated in the database.

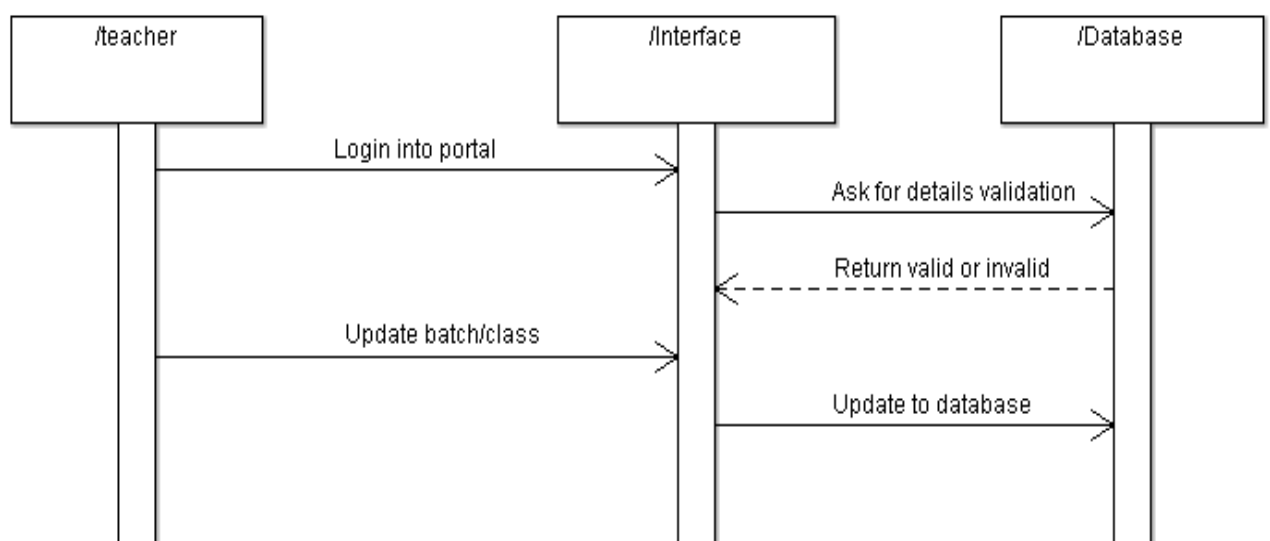


Figure 15: Sequence Diagram-Update Classes/Batches

Activity Diagrams:

- Student Activity Diagram

Student logs in to the system and then username and password will be validated using the username and password information stored in the database. Once he logs in to the system he views all the classes and can post the remarks on the topics discussed in the class by the teacher.

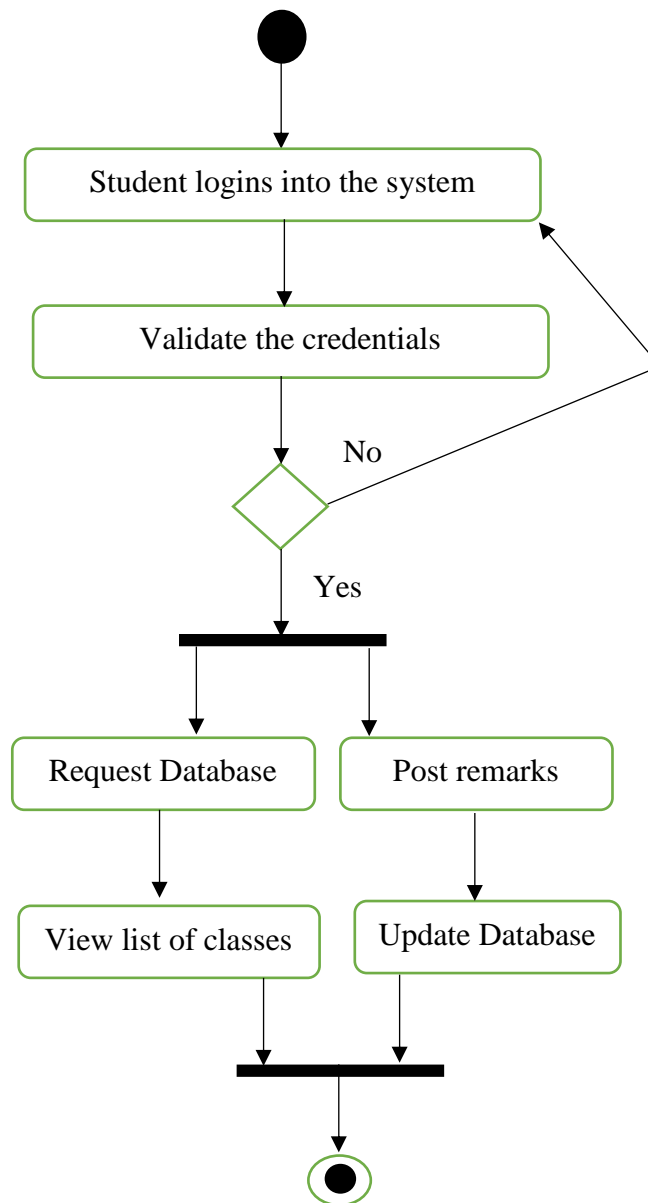


Figure 16: Activity Diagram of Student

- Teacher Activity Diagram

Teacher logs into the system and then username and password will be validated using the username and password information stored in the database. Once he logs into the system he views all the classes add the new classes/batches and update classes/batches which are updated in the database.

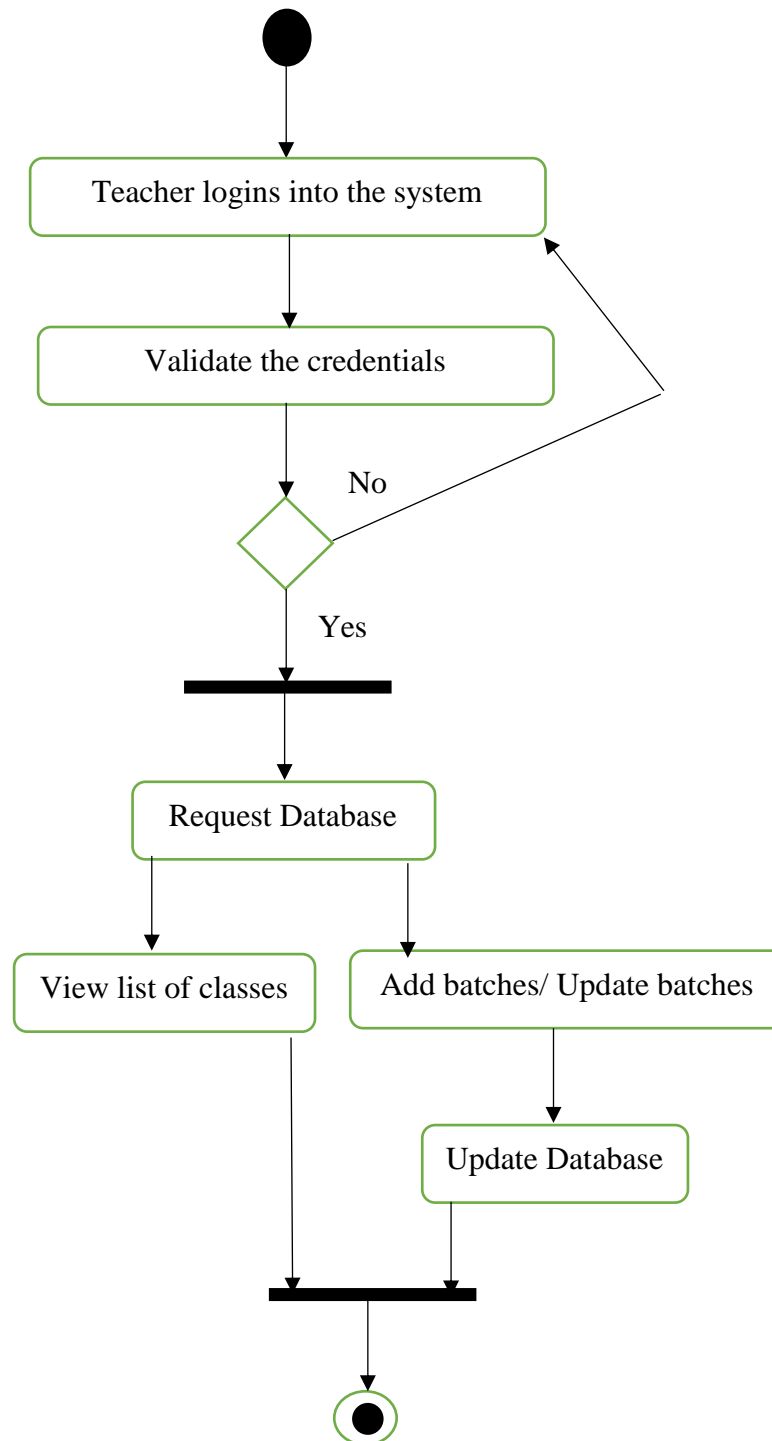


Figure 17: Activity Diagram of Teacher