

Software Engineering-2 Cover Sheet

Project Title: **Kinder Garten**

Row Number (in PDF): **59**

Time: ..**9:00**..

| # | Member Name (printed in arabic) | Member Id (printed) | Handwritten signature |
|--------|---------------------------------|---------------------|-----------------------|
| 1 2 | عبدالله سامى عبد العزيز | 20210547 | |
| 3 | زياد ايمن الحسينى | 20210360 | |
| 4 | دياب موسى دياب | 20210311 | |
| 5 | زياد عمرو محمد | 20210368 | |
| 6 | زياد ياسر محمد | 20210384 | |
| 7 | زياد نبيل جابر عبد الرازق | 20210378 | |
| | عمر محب ابراهيم | 20210617 | |

Project Requirements(grades)

| | | |
|---------------|---|--|
| SRS | 2 | |
| SDD | 2 | |
| Validation | 3 | |
| OCL | 4 | |
| AOP | 4 | |
| Microservices | 1 | |
| Cloud | 4 | |

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Functional Requirements:

Manager:

Scope: Managing all aspects of the kindergarten.

Description:

View all students, teachers, parents, and the secretary.

Add, edit, or delete teachers, students (with parents), and classes.

Publish announcements and view them.

Communicate with security regarding parent or teacher messages.

Title: Kindergarten Management

Teacher:

Scope: Classroom management and communication.

Description:

View all students in their class.

Access announcements.

Communicate with the secretary.

Send requests/messages to the manager.

Provide grades and reports for students.

Search for students in their class.

Search for manager and secretary.

Send homework to absent students.

Title: Classroom Management and Communication

Parent:

Scope: Monitoring child's progress and communication.

Description:

View child's profile.

Access own profile.

Communicate with the secretary.

Send requests/messages to the manager.

View announcements.

Access child's homework in case of absence.

Title: Parental Engagement and Monitoring

Secretary:

Scope: Administrative tasks and communication.

Description:

Communicate with parents and manager.

Access announcements.

View all students, parents, and teachers.

Perform CRUD operations on all data.

Publish events.

Title: Administrative Management

Nonfunctional Requirements :

Manager:

Scope: Managing all aspects of the kindergarten.

Description:

View all students, teachers, parents, and the secretary.

Add, edit, or delete teachers, students (with parents), and classes.

Publish announcements and view them.

Communicate with security regarding parent or teacher messages.

Title: Kindergarten Management

Teacher:

Scope: Classroom management and communication.

Description:

View all students in their class.

Access announcements.

Communicate with the secretary.

Send requests/messages to the manager.

Provide grades and reports for students.

Search for students in their class.

Search for manager and secretary.

Send homework to absent students.

Title: Classroom Management and Communication

Parent:

Scope: Monitoring child's progress and communication.

Description:

View child's profile.

Access own profile.

Communicate with the secretary.

Send requests/messages to the manager.

View announcements.

Access child's homework in case of absence.

Title: Parental Engagement and Monitoring

Secretary:

Scope: Administrative tasks and communication.

Description:

Communicate with parents and manager.

Access announcements.

View all students, parents, and teachers.

Perform CRUD operations on all data.

Publish events.

Title: Administrative Management

Detailed Non - Functional Requirements.

2.2.1 Usability.

- . The application is easy to use and easy to understand, buttons should self-describe their function.
- . The application is in English, the user can change it to Arabic.
- . The interfaces are provided with cancel operation and return to the main page button.
- . End-users errors should show detailed information about the cause of the error

2.2.2 Performance.

- . Searching results should appear fast and be accurate doesn't matter which term the doctor used to search.
- . Results appear time should be less than 1 second. Functions are available as soon as the user finishes the function he is performing.

2.2.3 Look and feel.

- . The UI Design is good for the user.
- . Colors match and comfortable to the eye.
- . Animations and transitions are smooth and not too much.
- . Page will also have a dark-mode version.

2.2.4 Cultural.

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- . The language used is polite and formal and isn't offensive in anyway.

2.2.5 Legal REQS.

- . All the sounds, pictures and even animations are copyrighted.

2.2.6 Security.

- . All the data in the database are safely stored.
- . The user can't modify the data unless he confirmed his identity by logging in.

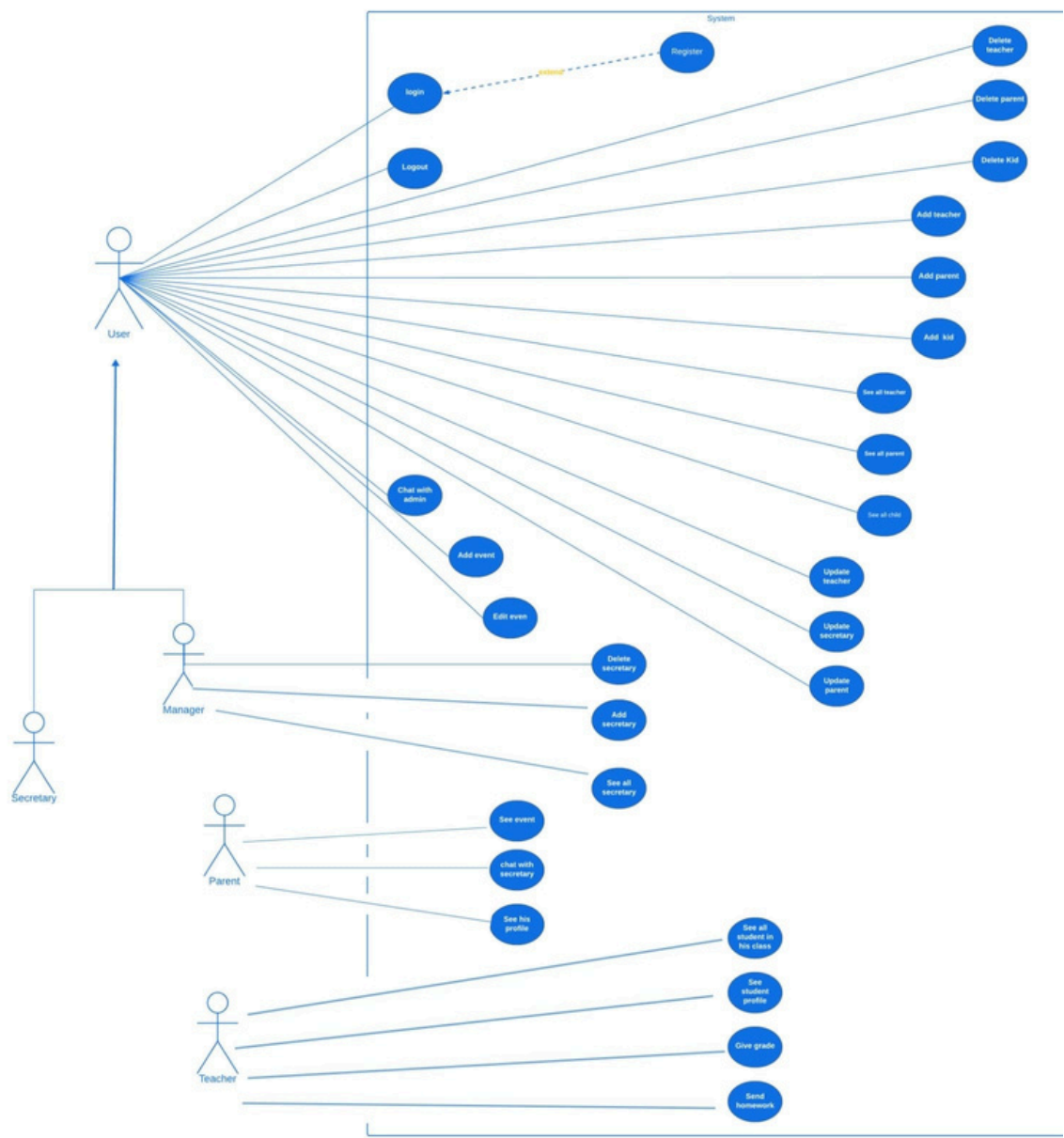
2.2.7 Robustness.

- . The time to restart the server won't be more than 2 second.
- . Probability of the corruption of the data is very low.

2.2.8 Reliability.

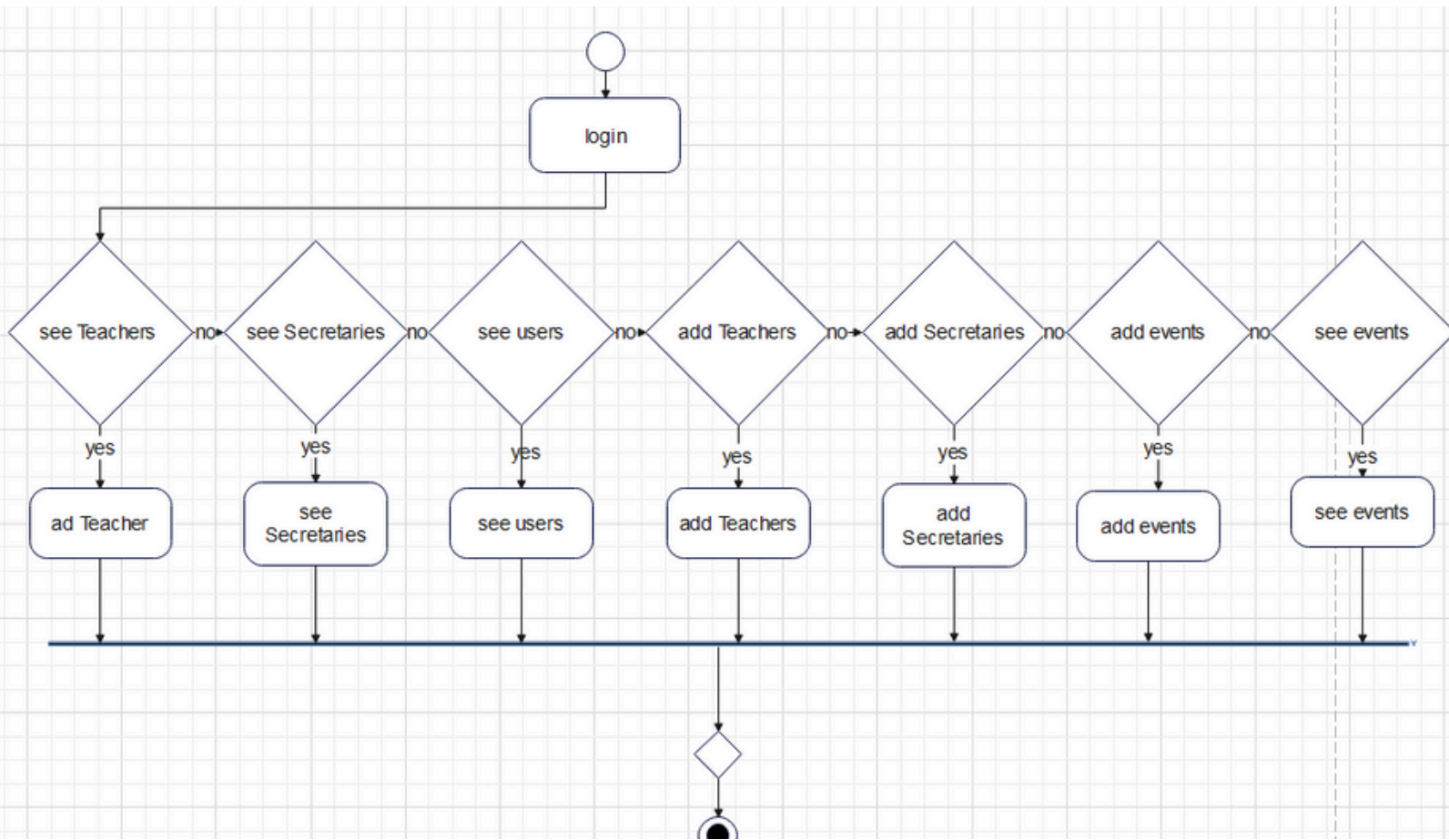
- . The server is working 24/7 on the main computer.

01 Usecase :

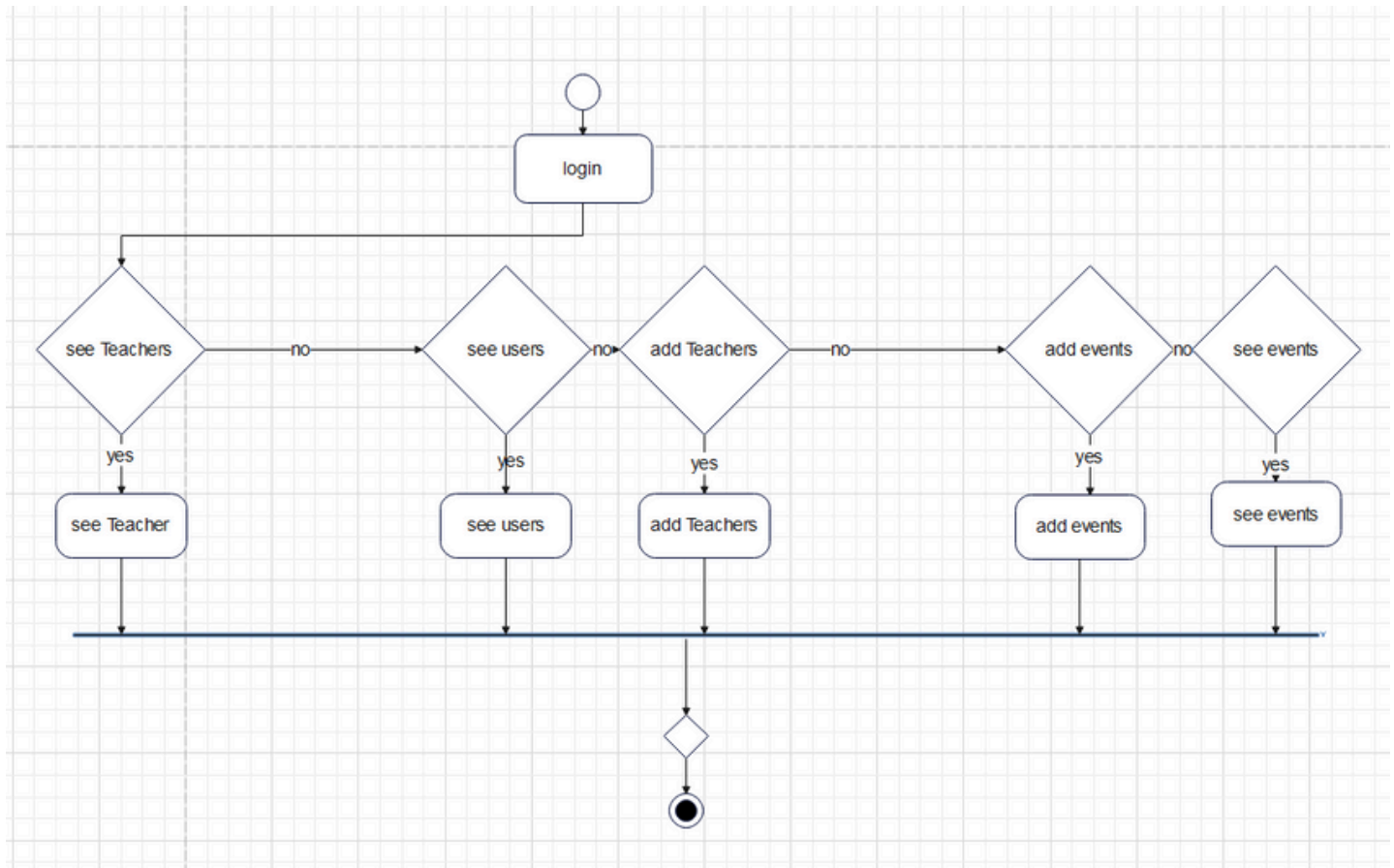


02 Activity diagram :

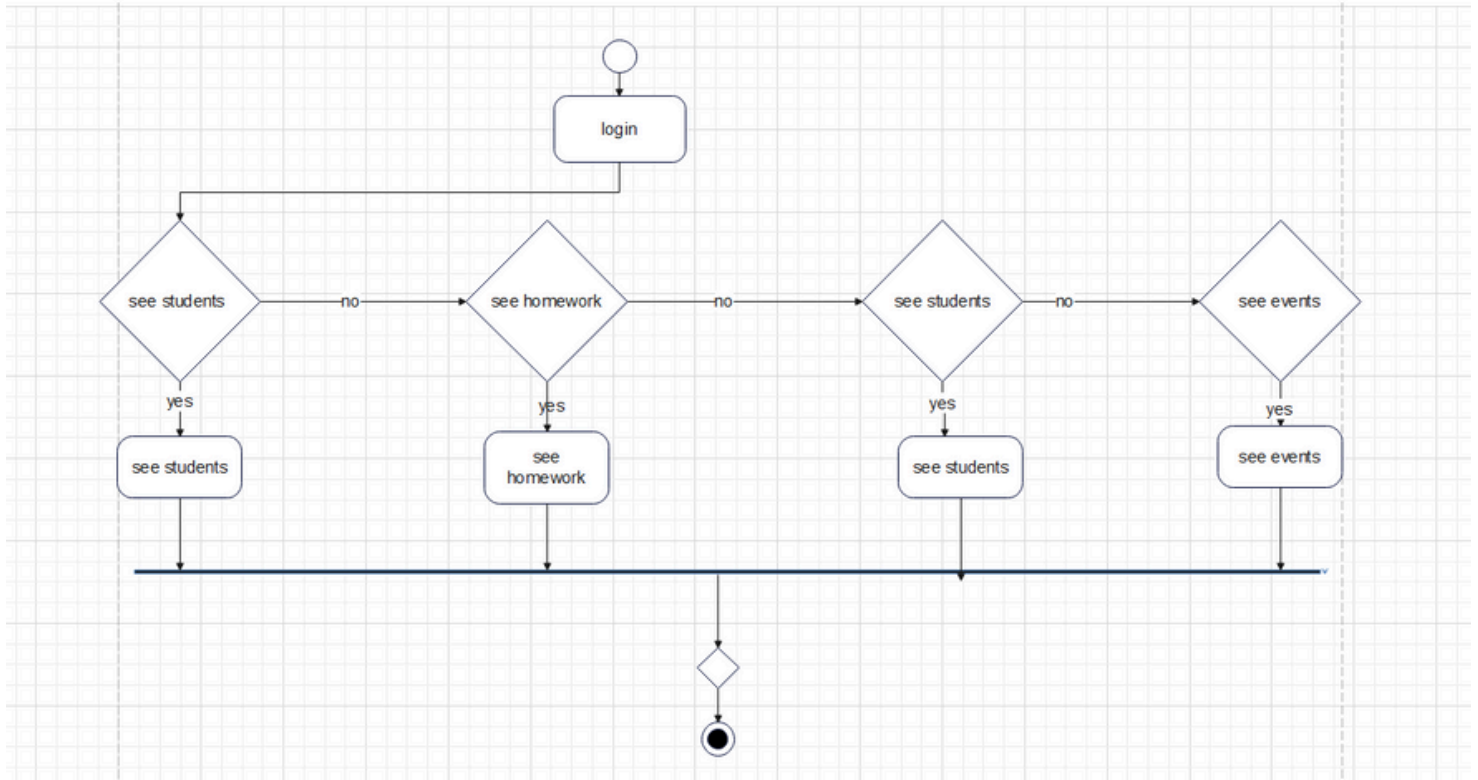
01 Admin :



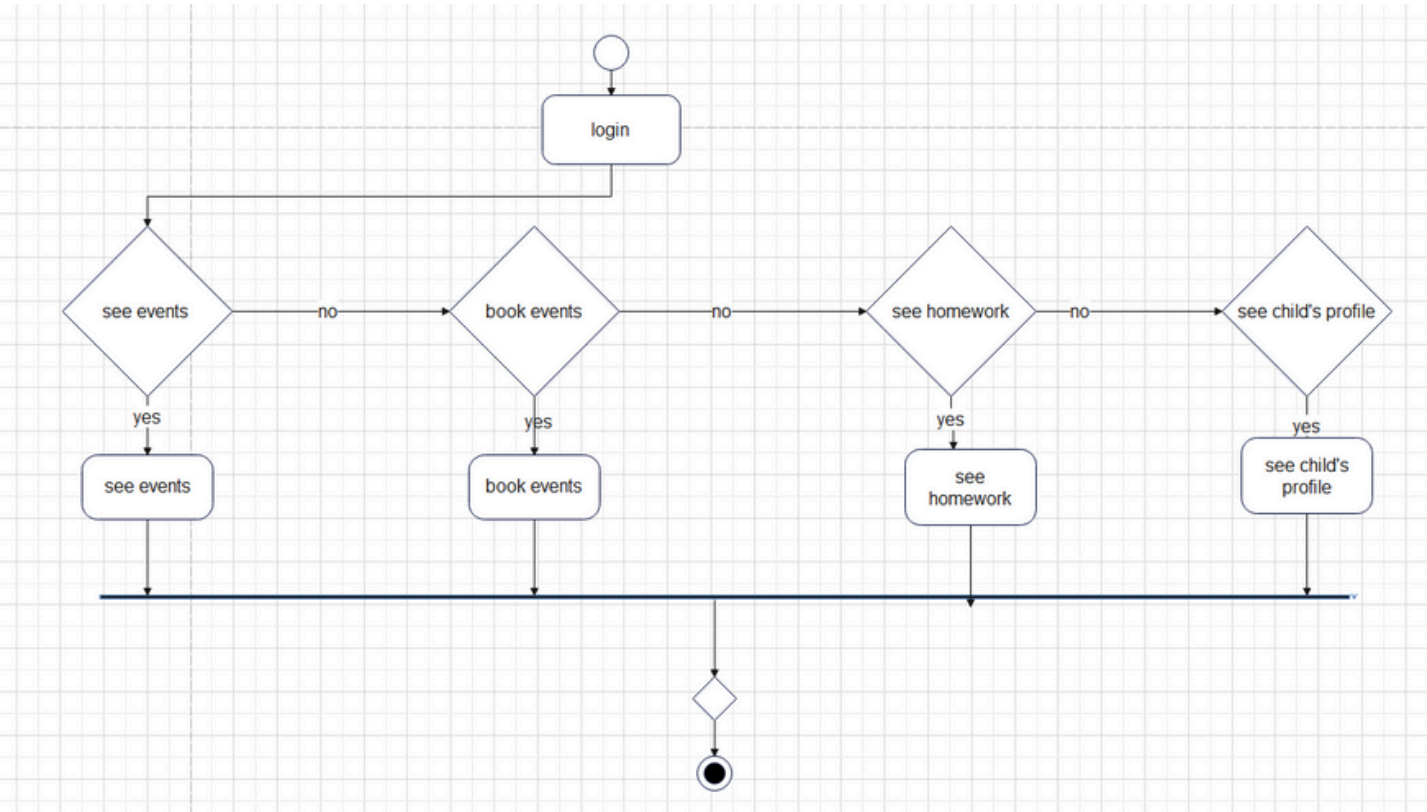
02 Secrtery :



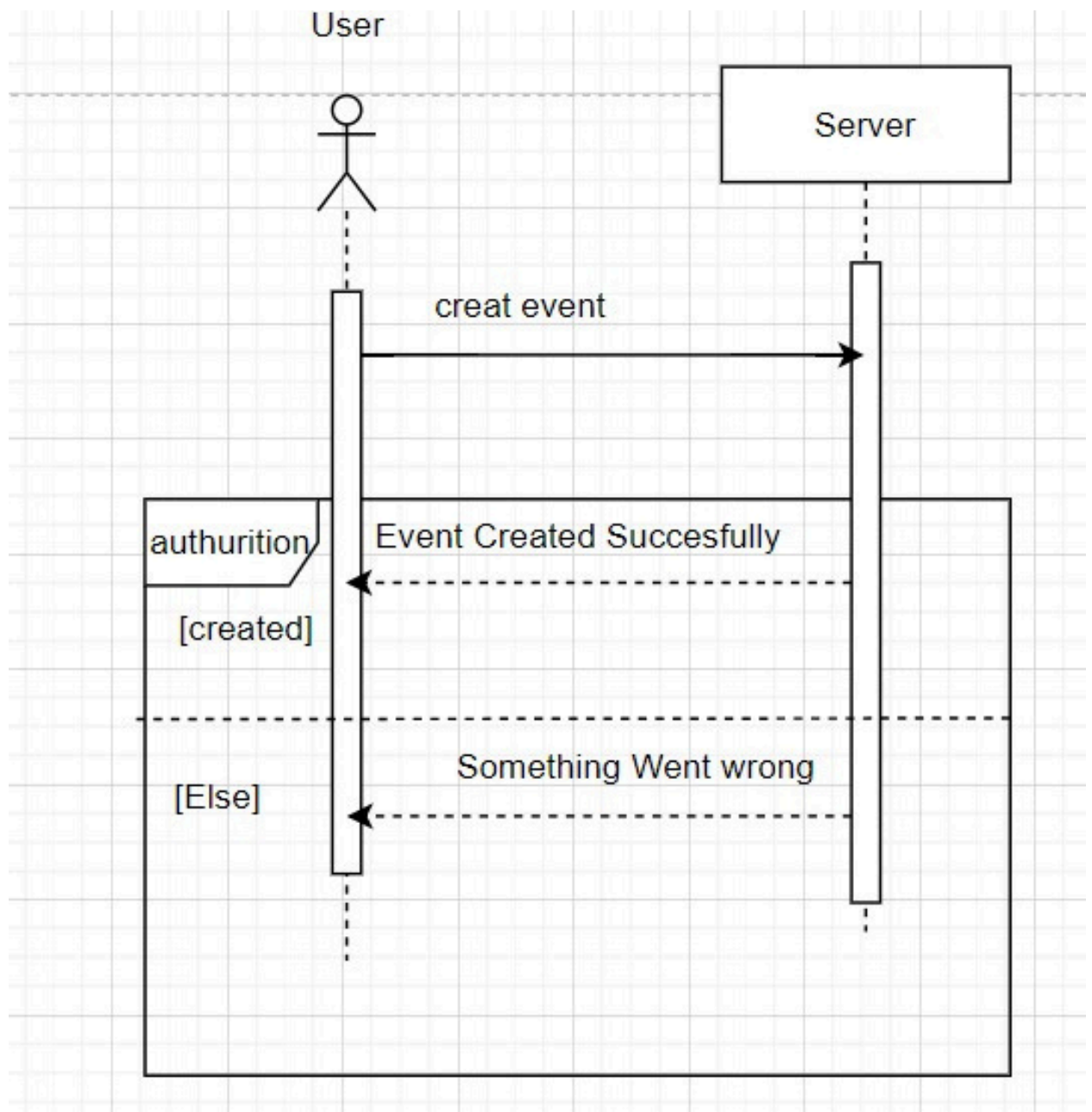
03 Teacher :

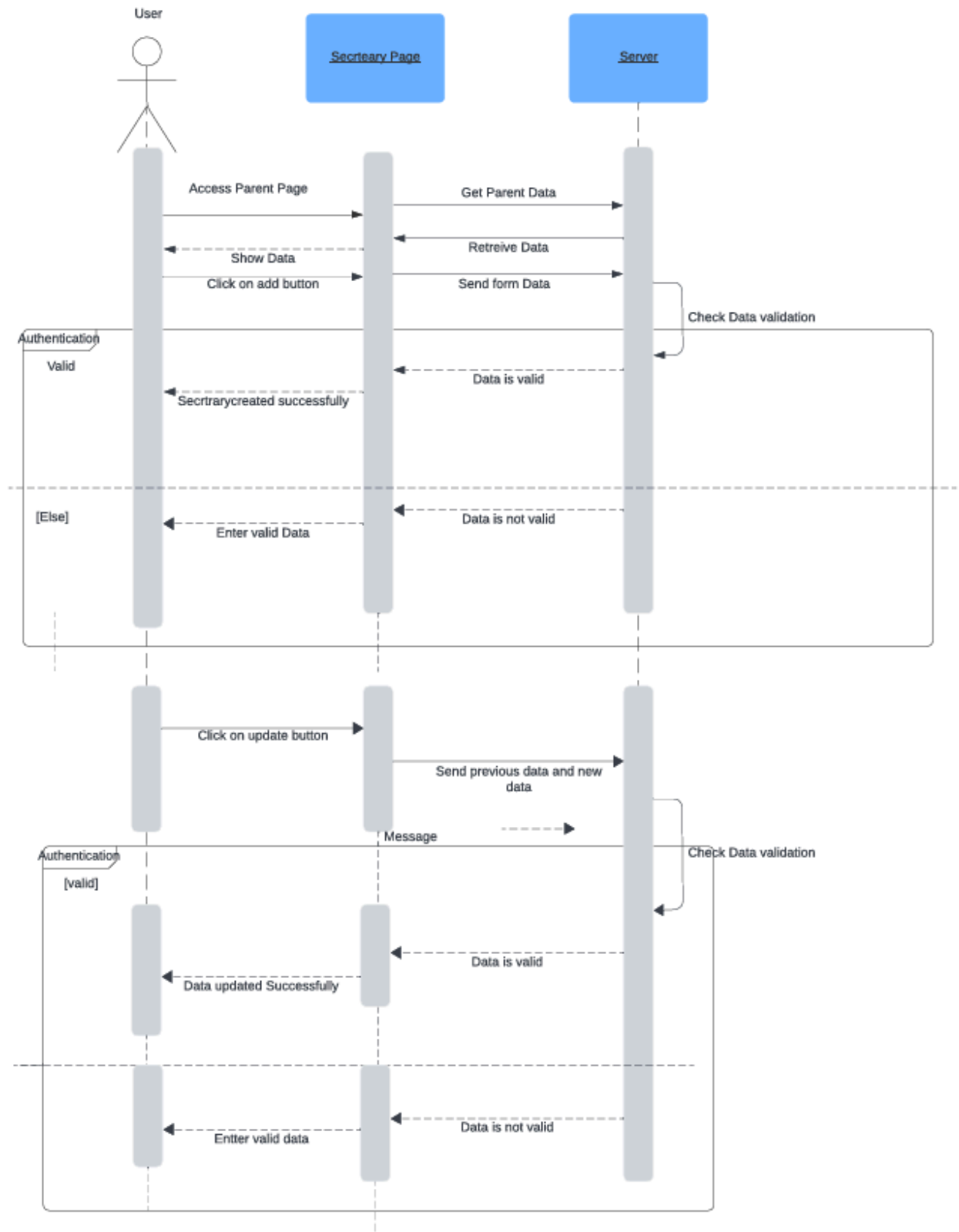


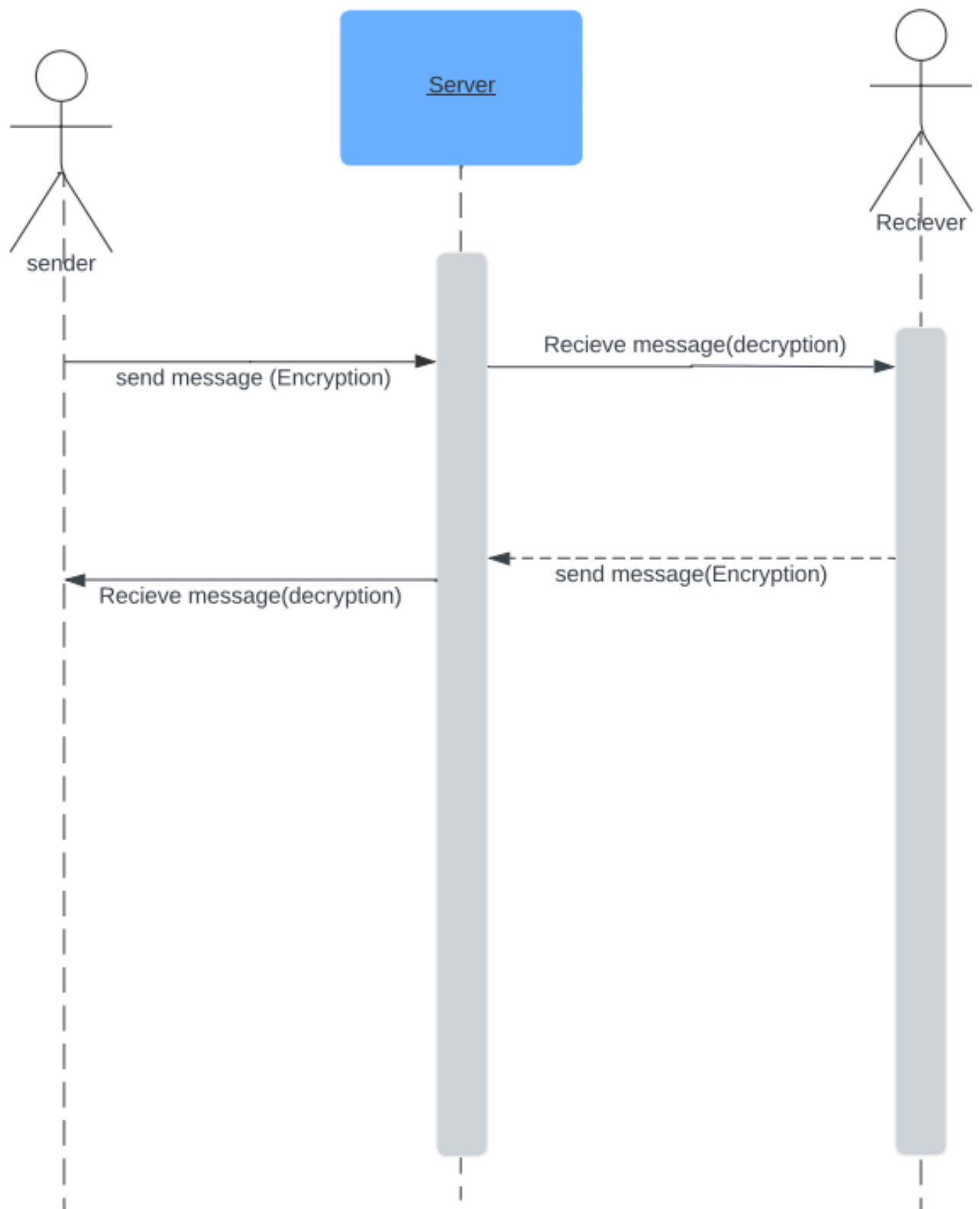
04 User :

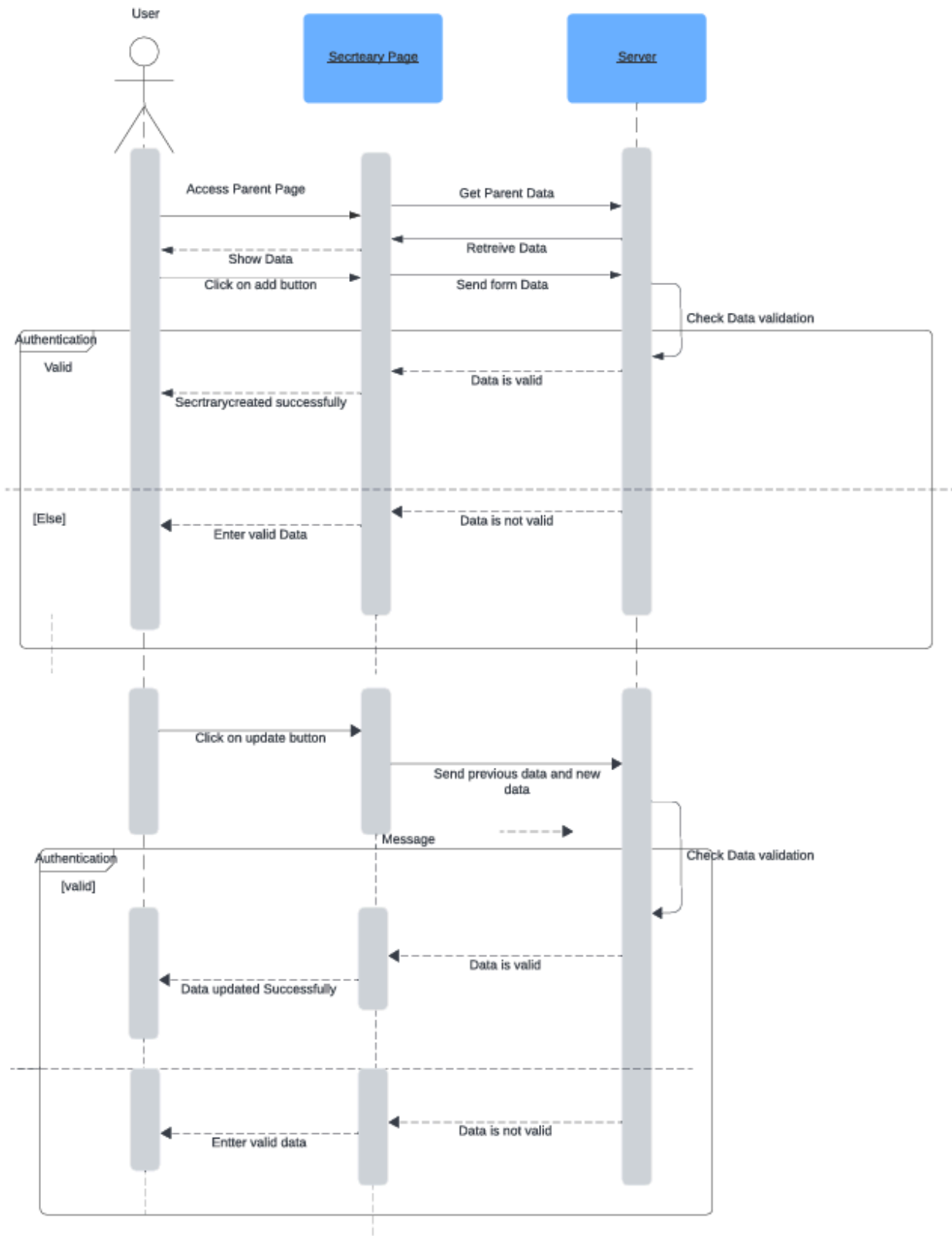


03 Sequence Diagram :

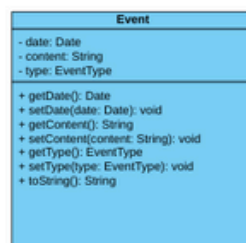
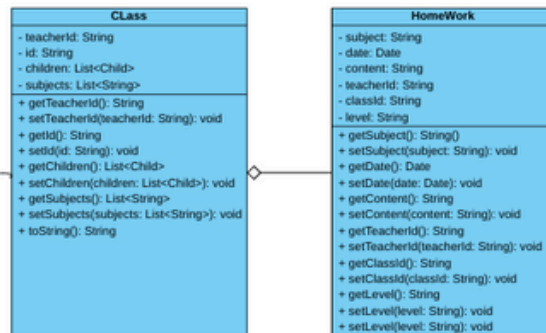
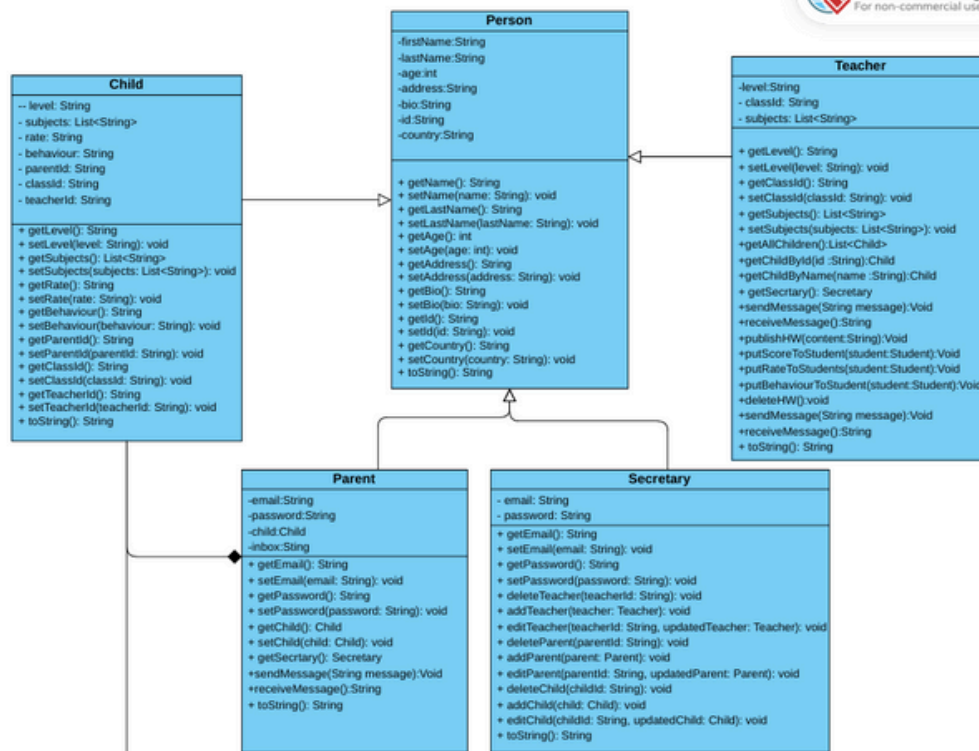




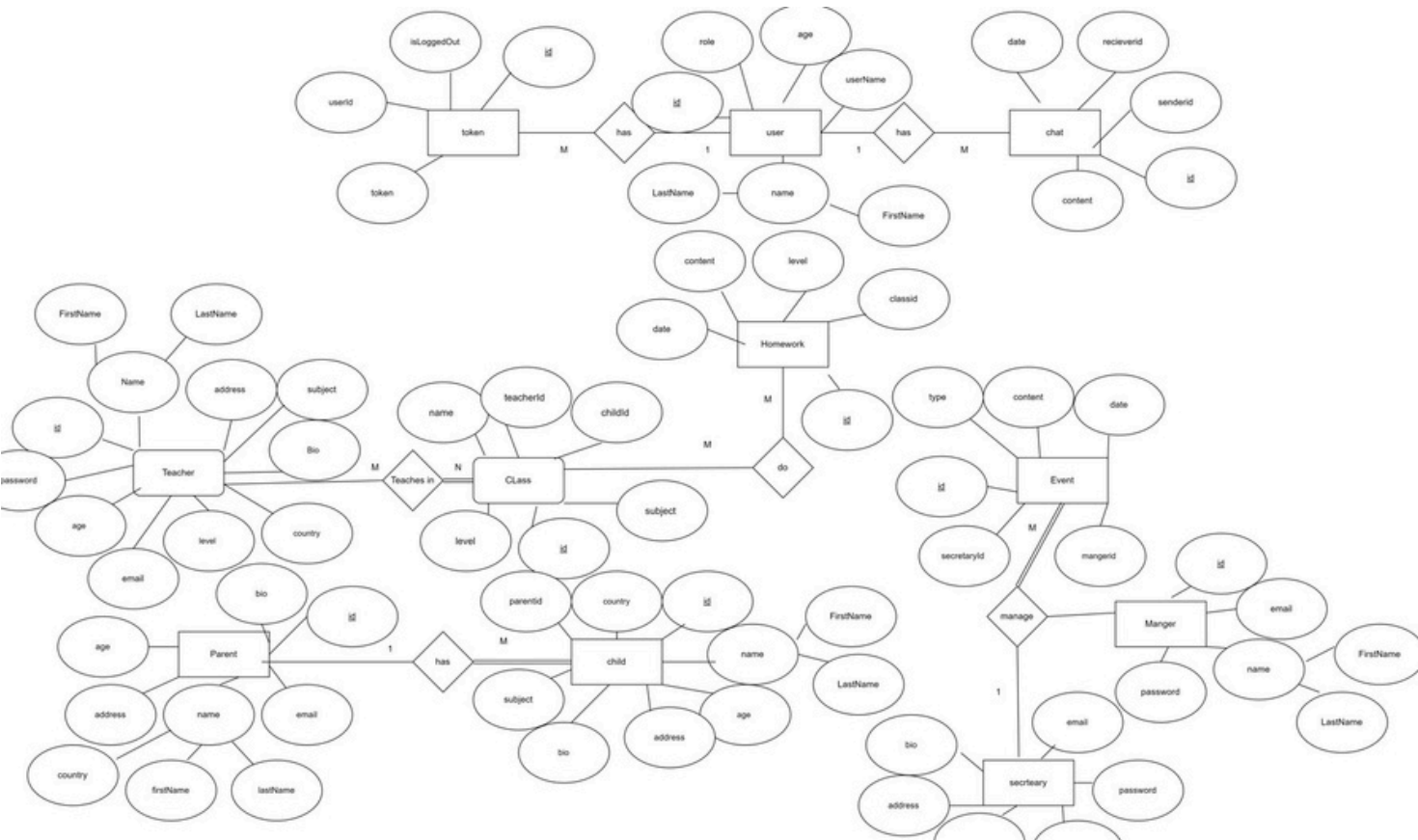




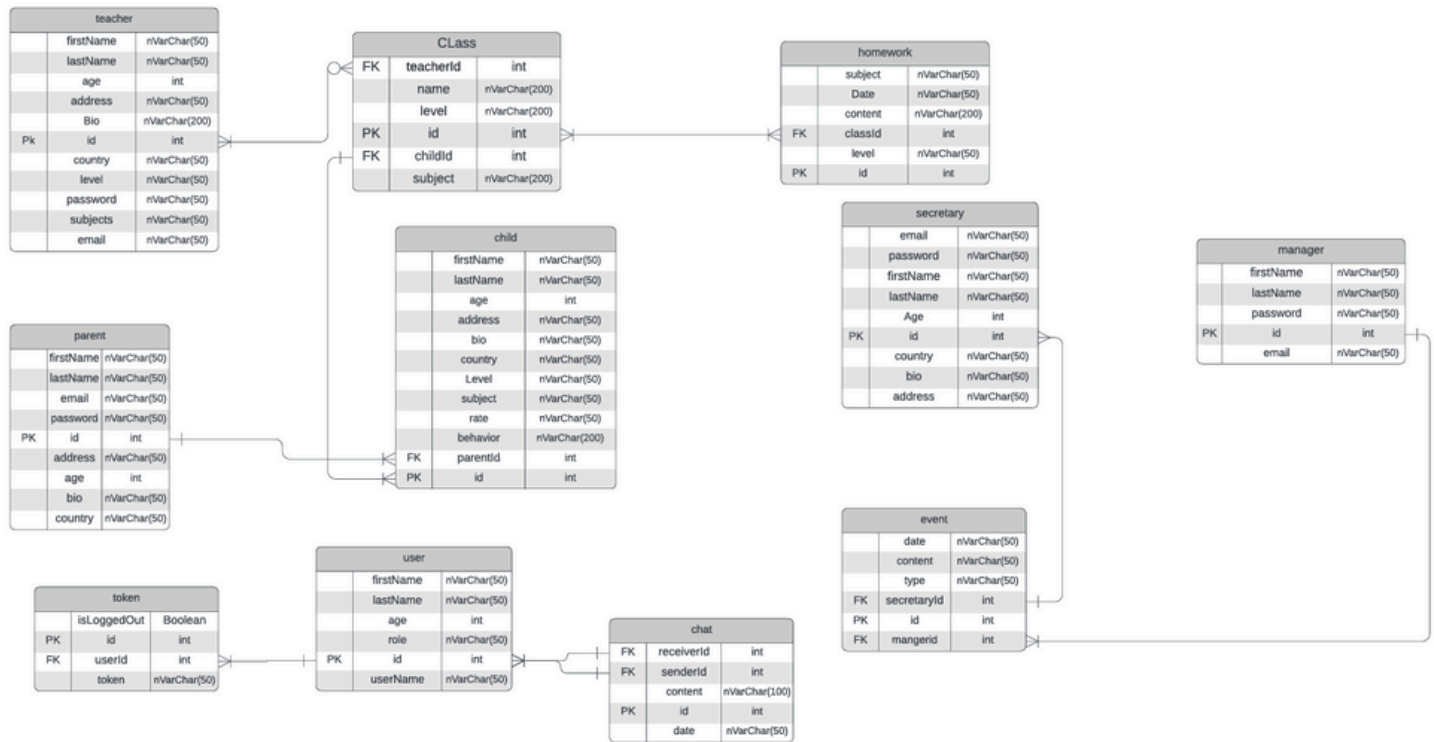
03 class Diagram :



04 ERD :



DataBase Schema :



OCL :

