

# CSYE6200 Daycare Project

GitHub link: [https://github.com/eswarsaladi/ood\\_project](https://github.com/eswarsaladi/ood_project)



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# Outline

Introduction

Modules and Technologies

Registration

Student Immunization

Alerts

Employee review

Future enhancements



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# Introduction

- DayCare model to enroll students from the age group if **6 to 60 months** and above.
- Students and Teachers are first registered
- Students are assigned to teachers according to **state regulations**
- Registrations are renewed **every year**
- **Immunization anniversary records** of students are tracked
- Annual employee reviews are recorded
- Alerts are produced based apt conditions.

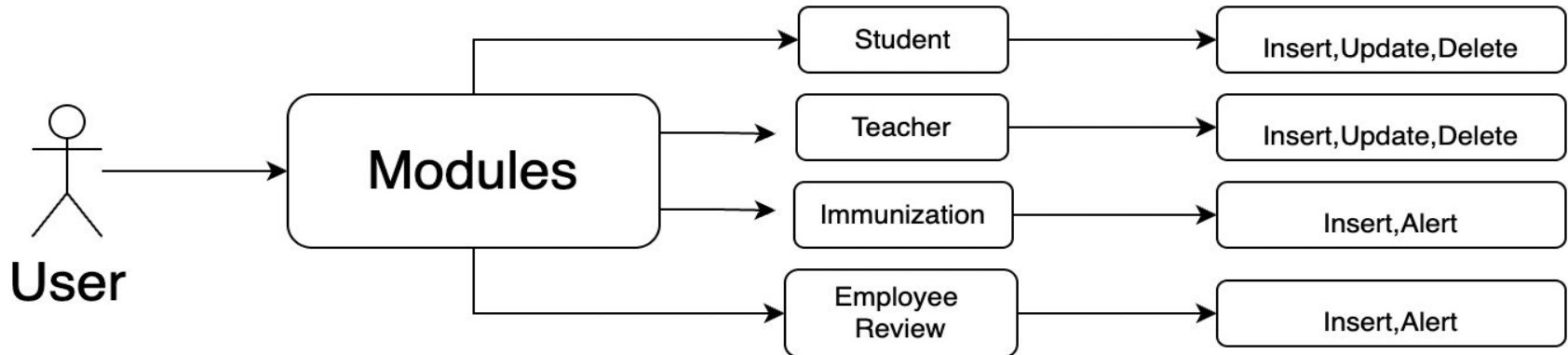
## Technologies used :

- Swing
- MySQL
- Github
- Netbeans IDE

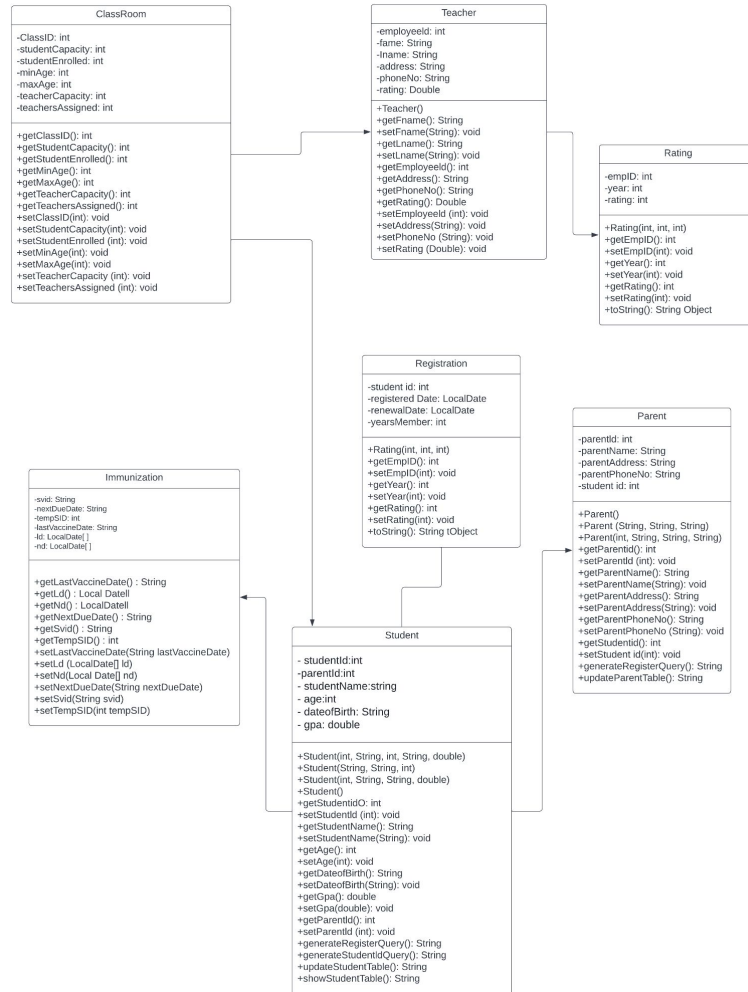
## Packages used :

- JDBC
- Swing
- SQL Connector

## Flowchart :



# UML

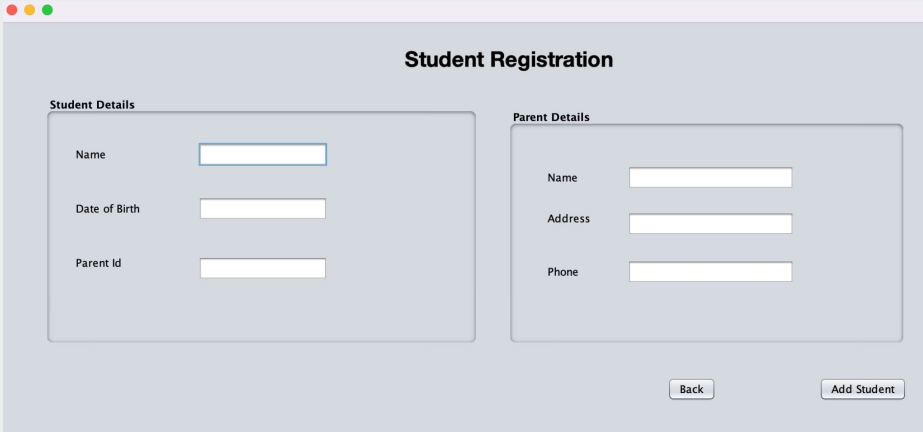


# Main Frame



A mockup of a software application window titled "Main Frame". The window has a light gray background and a title bar with three colored buttons (red, yellow, green) on the left. The content area is organized into sections for different user roles, each with a set of buttons:

- Daycare**: No buttons are visible under this header.
- Student**: Four buttons are arranged horizontally: "Register" (highlighted with a blue border), "Update or View", "Immunization", and "Assign".
- Teacher**: Two buttons are arranged horizontally: "Register" and "Update".
- Employee**: One button is visible: "Annual Review".
- Classes**: One button is visible: "View Classes".



A screenshot of a 'Student Registration' window. It features two main sections: 'Student Details' on the left and 'Parent Details' on the right. The 'Student Details' section contains three input fields labeled 'Name', 'Date of Birth', and 'Parent Id'. The 'Parent Details' section contains three input fields labeled 'Name', 'Address', and 'Phone'. At the bottom right, there are two buttons: 'Back' and 'Add Student'.

**Student Registration**

**Student Details**

Name

Date of Birth

Parent Id

**Parent Details**

Name

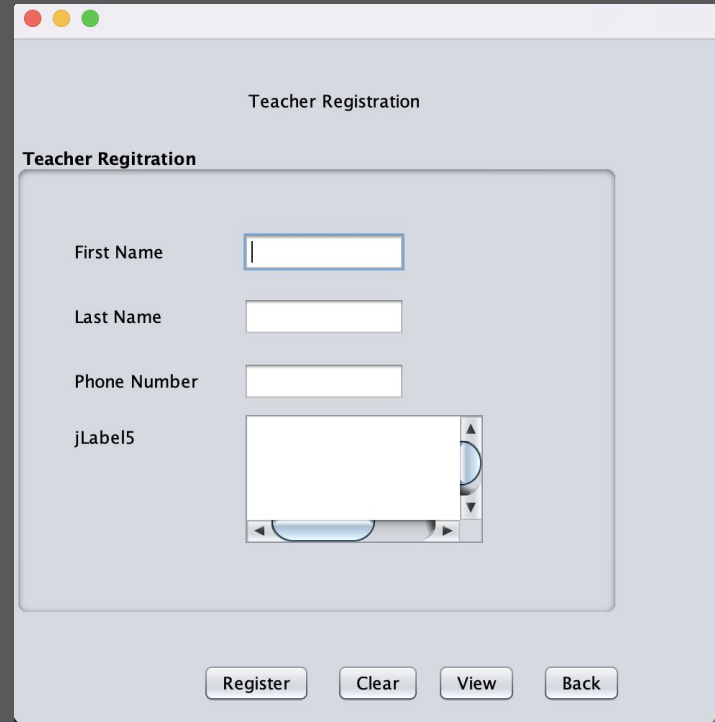
Address

Phone

Back Add Student

**Student registration** is implemented by obtaining the required attributes of students.

Student records can be updated and viewed as well.



A screenshot of a 'Teacher Registration' window. It has a title bar with three colored buttons (red, yellow, green). The window title is 'Teacher Registration'. Inside, there's a section titled 'Teacher Registration' with four input fields: 'First Name', 'Last Name', 'Phone Number', and a text area labeled 'jLabel5'. At the bottom, there are four buttons: 'Register', 'Clear', 'View', and 'Back'.

**Teacher Registration**

**Teacher Registration**

First Name

Last Name

Phone Number

jLabel5

Register Clear View Back

**Teacher registration** is implemented by obtaining the required attributes of teachers

Teacher records can be updated and viewed as well.

# Student Update

Student ID

Student Name

Date of Birth

GPA

Parent ID

Parent Name

Parent Address

Parent Phone Number

Back

Update

Student ID	Student Name	Age	Date of Birth	GPA	Parent ID	Parent Name	Address	Phone Number
1	Jimmy	11	2021-05-02	3.5	1	Vraj	Saint Alphonsus st	617 821 7281
2	Sally	23	2020-06-01	3.9	1	Vraj	Saint Alphonsus st	617 821 7281
3	Lizzy	62	2017-03-01	3.3	2	Akshay	Saint Alphonsus st	617 821 2791
4	Markie	32	2019-10-08	3.9	2	Akshay	Saint Alphonsus st	617 821 2791
5	Johnny	12	2022-05-04	3.3	3	Eswar	Huntington Ave	617 821 2782
6	Bobby	11	2018-05-02	4.0	3	Eswar	Huntington Ave	617 821 2782
7	Billy	26	0000-00-00	3.1	4	Tarun	Jamaica Plain	617 821 2293
8	Evie	40	2019-01-20	3.2	4	Tarun	Jamaica Plain	617 821 2293
9	Becky	29	2020-01-09	3.5	5	Akanksha	Boylston St	617 821 1232
10	Jessie	14	2021-03-17	3.8	5	Akanksha	Boylston St	617 821 1232
11	Jackie	12	2021-04-04	3.5	6	Kriya	Huntington Ave	617 821 1222
12	Laurie	27	2020-01-05	3.45	6	Kriya	Huntington Ave	617 821 1222
13	Cathey	12	2021-04-28	3.57	7	Vyshnavi	Huntington Ave	617 821 3421
14	Millie	63	2017-01-07	3.57	7	Vyshnavi	Huntington Ave	617 821 3421
15	Ruthie	34	2020-07-08	3.54	1	Vraj	Saint Alphonsus st	617 821 7281
16	Stanley	53	2017-12-09	3.23	3	Eswar	Huntington Ave	617 821 2782
17	Mary	41	2018-12-17	3.49	4	Tarun	Jamaica Plain	617 821 2293
18	Annie	30	2019-11-11	3.95	5	Akanksha	Boylston St	617 821 1232



# Teacher

Teacher Registration

**Teacher Registration**

First Name

Last Name

Phone Number

jLabel5

**TEACHER UPDATE AND DELETE**

TEACHER ID  RATING

FIRST NAME  PHONE NUMBER

LAST NAME  CLASS ID

ADDRESS

# Teacher View



A macOS-style message dialog box titled "Message" with a blue information icon on the left. It contains a table with 7 columns: employ..., fname, lname, emp\_p..., emp\_a..., emp\_r..., and class\_id. The table lists 24 rows of data. An "OK" button is located at the bottom right.

employ...	fname	lname	emp_p...	emp_a...	emp_r...	class_id
102	v				2.0	0
103		movva			0.0	0
104			vcxxvx...	raja	3.0	0
105	dsadaa	fdd	12222...		0.0	0
106	sdd	movva2	2333	ds	5.0	0
108	abhishek	kumar	12345	asas	0.0	1
109	juhili	s	121212	dsds	0.0	4
110	shriyA	AS	2222	SDSD	0.0	0
111	shriyA	AS	2222	SDSD	0.0	6
112	zdx	zx	2121	cdcd	0.0	0
113	uhjj	jkjk	888	hjhhj	0.0	0
114	uhjj	jkjk	888	hjhhj	0.0	0
115	Mitali	Shetye	72828...	roxbury	0.0	5
116	mmm	mkmm	kjkjk	,kkk	0.0	0
117	mmm	mkmm	kjkjk	,kkk	0.0	0
118	Akanks...	Pawar	hkkkk	143 p...	0.0	2
119	jjsjs	hjshs	89824...	ndd	0.0	0
120	vdsvd...	vdsxvc...	vcxxvx...	cxvcxv...	0.0	0
121	rjndjkn...	vdfver...	61778...	fdsfxnc...	0.0	0
122	vdsvd...	vdsxvc...	333	cxvcxv...	0.0	0
123	saitarun	movva	61778...	gndsnv...	0.0	3
124	Ak	Pa	89824...	143 p...	0.0	0

# Student Immunization

- Added new immunization records with relevant fields like **vaccination type, date and number of doses of the vaccination** received, etc ...
- Maintain and modify records of the received vaccinations to keep the data updated.


Immunization Record

### Student Immunization Record

Student Id:

Show Data

Message

 next dose date is still due

OK

SV ID		Date	Vaccinated	
11			fully vaccinated	
12		3	not fully vaccin...	
13		2	not fully vaccin...	
14		2	not fully vaccin...	
15	MMR	2022-03-01	2022-05-01	not fully vaccin...
16	Varicella	2022-03-02	2022-05-02	not fully vaccin...
17	Influenza	2022-02-01	2022-04-15	not fully vaccin...

Immunization Record

### Student Immunization Record

Student Id:

Show Data

SV ID	Vaccine Name	Last Dose Date	Next Due Date	Vaccinated
	HIB			
	TDap			
	Polio			
	Hepatitis B			
	MMR			
	Varicella			
	Influenza			

# Student Immunization

Immunization Record

## Student Immunization Record

Student Id:

Show Data

SV ID	Vaccine Name	Last Dose Date	Next Due Date	Vaccinated
11	HIB	2022-02-17	null	fully vaccinated
12	TDap	2022-02-12	2023-04-23	not fully vaccin...
13	Polio	2022-02-21	2023-04-22	not fully vaccin...
14	Hepatitis B	2022-02-19	2023-04-22	not fully vaccin...
15	MMR	2022-03-01	2022-05-01	not fully vaccin...
16	Varicella	2022-03-02	2022-05-02	not fully vaccin...
17	Influenza	2022-02-01	2022-04-15	not fully vaccin...

# Assigning Group to Classroom

Student ID

Class ID

Teacher Name

Assign

Back

Student ID	Student Na...	Class ID	TeacherNa...
1	Jimmy	1	abhishek
2	Sally	2	Akanksha
3	Lizzy	6	shriyA
4	Markie	3	saitarun
5	Johnny	1	abhishek
6	Bobby	5	Mitali
7	Billy	3	saitarun
8	Evie	4	juhili
9	Becky	3	saitarun
10	Jessie	2	Akanksha
11	Jackie	1	abhishek
12	Laurie	3	saitarun
13	Cathey	1	abhishek
14	Millie	6	shriyA
15	Ruthie	3	saitarun
16	Stanley	5	Mitali
17	Mary	4	juhili
18	Annie	3	saitarun

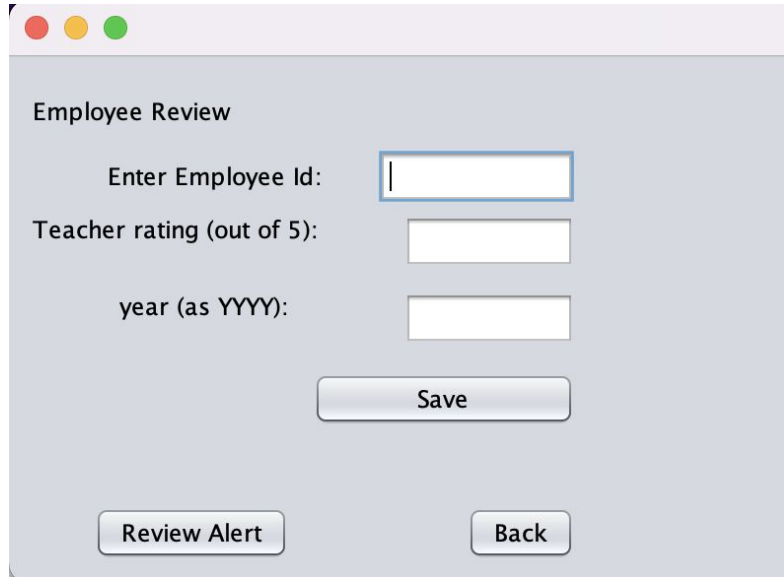
Enter Class:

View

Back

Teacher_id	Teacher Name	Student_id	Student Name
108	abhishek	1	Jimmy
108	abhishek	5	Johnny
108	abhishek	11	Jackie
108	abhishek	13	Cathey

# Employee Review



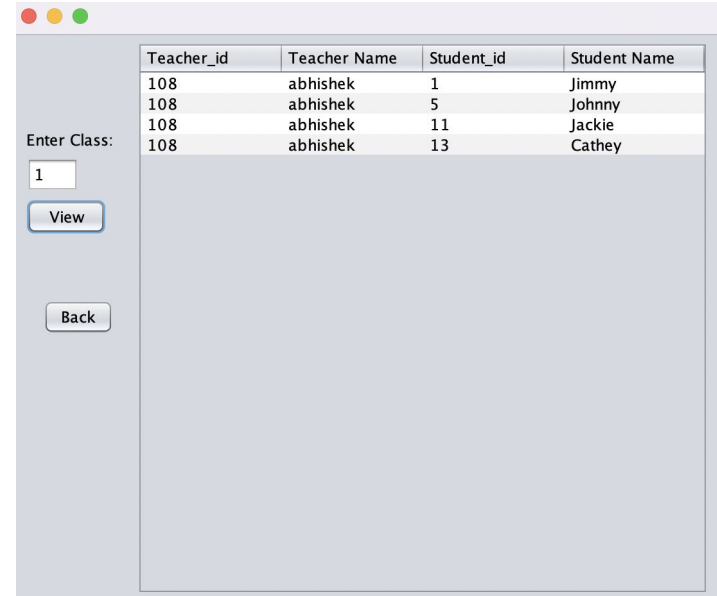
Employee Review

Enter Employee Id:

Teacher rating (out of 5):

year (as YYYY):

# Class View



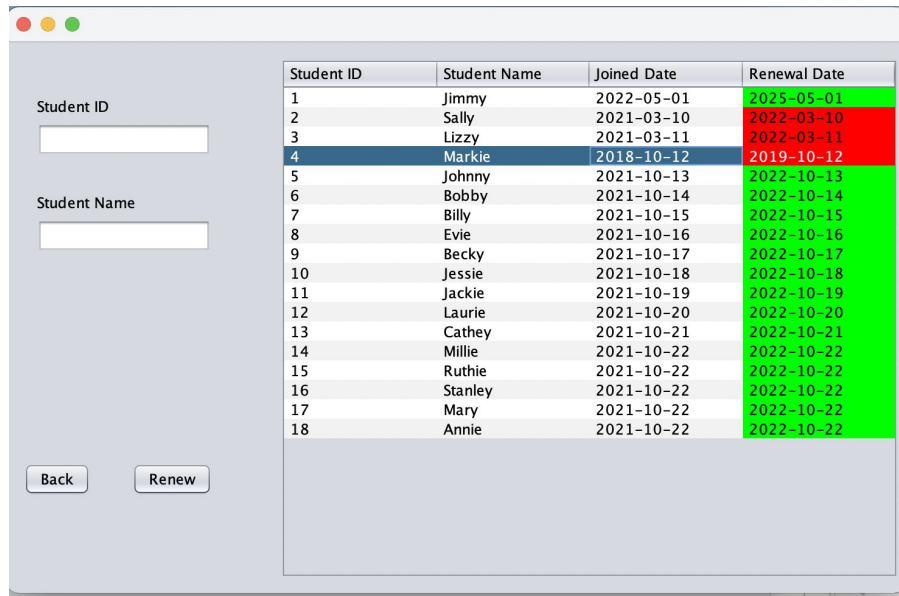
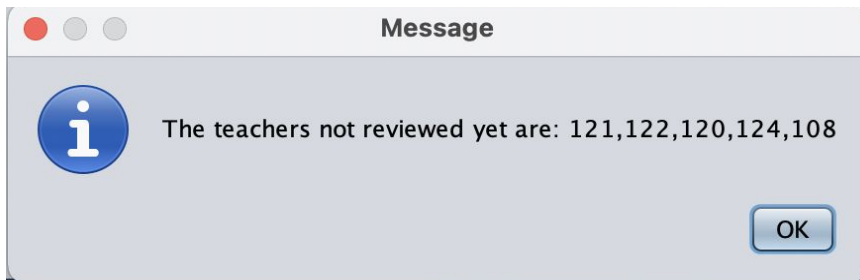
Enter Class:

Teacher_id	Teacher Name	Student_id	Student Name
108	abhishek	1	Jimmy
108	abhishek	5	Johnny
108	abhishek	11	Jackie
108	abhishek	13	Cathey

# Alerts

## Alert for upcoming/overdue dates

- Annual employee review
- Annual registration from original walk-in date
- Track student immunization record



# Future enhancements?



- Make it Scalable
- Improvise modules to handle latency
- Implement C/CD for smooth operations and development



# Conclusion

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- We are using a database(MySQL) and JSwing to present an easy to use interface for children to be checked in and their information to be managed
- This system will help in maintaining the records of the children enrolled along with their vaccination anniversaries in order to track their doses timely
- Periodic alerts and notifications can keep immunization schedules in check and will avoid the children from missing out on their vaccinations
- The user friendly interface will help the admit to record and maintain the data of students and employees (teachers) effectively



# References

- <https://docs.oracle.com/en/java/>
- <https://docs.oracle.com/javase/7/docs/api/javax/swing/package-summary.html>
- <https://docs.oracle.com/javase/tutorial/uiswing/index.html>
- <https://dev.mysql.com/doc/>

# Thank you



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