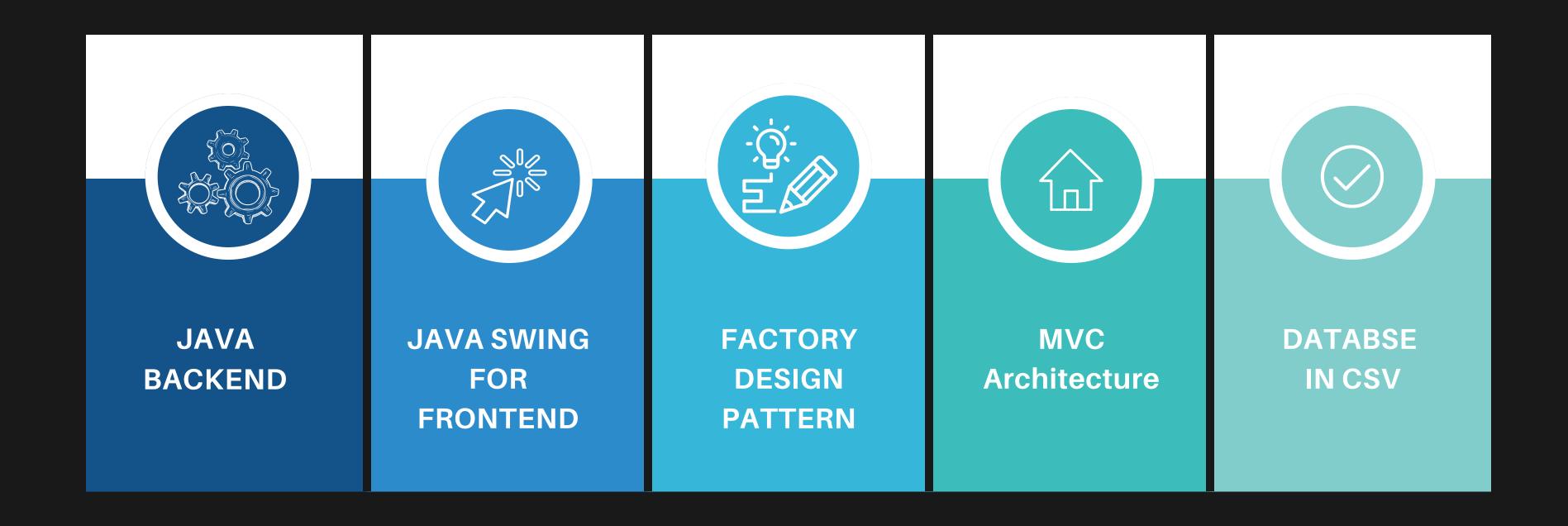
# DAYCARE PROJECT

Object Oriented Design CSYE 6200 Group: 05



#### **CONCEPTS AND TOOLS**

5-Step Ordering Process



	Abhinav	Immunization functionality and frontend	Satvik	Classroom functionality and UML
	Devansh	Teacher functionality and frontend	Tanmay	Student Functionality and UML
CONTRIBUTIONS	Kabir	Teacher functionality and documentation	Devanshu	Student and Classroom functionality
	Gautham	Classroom functionality and documentation	Meet	Immunization functionality and Frontend
			Rakesh	Frontend and Teacher functionality

### TECHNOLOGY AND DESIGN CONCEPTS

**GENERICS** 

**RUNNABLE THREADS** 

FACTORY PATTERN DESIGN

LAMBDA FUNCTION

FUNCTIONAL PROGRAMMING

**INHERITANCE** 

**POLYMORPHISM** 

**ABSTRACTION** 

**ENCAPSULATION** 

STREAM API

## LIBRARIES USED

JAVA SWING

JAVA UTIL

JAVA SIMPLE DATE FORMAT

JAVA AWT

JAVA UTIL CALENDER

JAVA TIME

JAVA.IO

JAVA NIO

**THREADS** 

STREAM



#### FUNCTIONALITIES



#### TEACHER

- TEACHER REGISTRATION
- TEACHER REVIEW
- VIEW TEACHER DETAILS
- ANNUAL REVIEW ALERT



#### STUDENT

- STUDENT REGISTRATION
- STUDENT IMMUNIZATION STATUS
- VIEW STUDENT DETAILS
- REGISTRATION RENEWAL
- UPDATE STUDENT IMMUNIZATION



#### IMMUNIZATION

- TRACK IMMUNIZATION
- STORE RECORDS
- UPDATE RECORDS
- UPCOMING DATE



#### CLASSROOM

• STUDENT TEACHER MAPING BASED ON STATE RULES

## Generics

## INHERITANCE

```
public class Student extends Person {
   private double gpa;
   private String ageGroup;
   private Date registrationDate;
    public double getGpa() {
        return gpa;
    public void setGpa(double gpa) {
        this.gpa = gpa;
    public String getAgeGroup(){
        return this ageGroup;
    public void setAgeGroup(String ageGroup){
       this.ageGroup = ageGroup;
   public Date getRegistrationDate(){
        return this registrationDate;
```

## STREAM API

```
public static void viewTeacherInformation() {
    System.out.println("******* Viewing Teacher list ******");
    teacherlist.stream().forEach(System.out::println);
    System.out.println();
}
```

## RUNNABLETHREAD

```
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
     Look and feel setting code (optional)
   /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new LandingPage().setVisible(true);
    }):
   DayCareController demoObj = new DayCareController();
   demoObj.run();
```

## LAMBDA FUNCTION

## FACTORY DESIGN PATTERN

```
public class StudentFactory {
   private static StudentFactory instance;
    private StudentFactory() {
        instance = null;
    public static synchronized StudentFactory getInstance() {
        if(instance == null){
            instance = new StudentFactory();
        return instance;
```

## THANKYOU