Service Implementation

```java
package com.service;


import java.util.Scanner;


import org.hibernate.Session;

import org.hibernate.SessionFactory;


import com.config.HibernateUtil;

import com.entity.Adhar;

import com.entity.Person;


public class PersonserviceImplmentation implements PersonService{

        Scanner sc=new Scanner(System.in);

        SessionFactory sf=HibernateUtil.getSessionFactory();


        @Override

        public void addPersonWithadhar() {

                // TODO Auto-generated method stub

                Person p=new Person();

                Session s=sf.openSession();

                System.out.println("Enter the PersonName:-");

                p.setPname(sc.next());

                Adhar ad=new Adhar();

                System.out.println("Enter the Adharnumber:-");

                ad.setAdharNumber(sc.next());

                ad.setPerson(p);

                p.setAdhar(ad);
```

```java
            s.save(p);

            s.beginTransaction().commit();

            System.out.println("Person Inserted");


    }


    @Override
    public void displayPersonOnlyUsingPID() {
            // TODO Auto-generated method stub
            Session s=sf.openSession();

            System.out.println("Enter the person Id::");

            int id=sc.nextInt();

            Person person=s.get(Person.class,id);

            if(person!=null) {

                    System.out.println("Person ID::"+person.getPid());

                    System.out.println("Person Name::"+person.getPname());

            }else {

                    System.out.println("Invalid ID");

            }


    }


    @Override
    public void displayAdharOnlyUsingPID() {
            // TODO Auto-generated method stub
            Session s=sf.openSession();

            System.out.println("Enter the person Id::");

            int id=sc.nextInt();
```

```java
        Person person=s.get(Person.class,id);

        if(person!=null) {

                Adhar adhar=person.getAdhar();

                System.out.println("Adhar ID::"+adhar.getAdharId());

                System.out.println("Adhar Number::"+adhar.getAdharNumber());

        }else {

                System.out.println("Invalid ID");

        }


}


@Override
public void updatePersonOnlyUsingPID() {

        // TODO Auto-generated method stub

        Session s=sf.openSession();

        System.out.println("Enter the person Id::");

        int id=sc.nextInt();

        Person person=s.get(Person.class,id);

        if(person!=null) {

                System.out.println("Previous Name::"+person.getPname());

                System.out.println("Enter the new Name::-");

                person.setPname(sc.next());

                s.update(person);

                s.beginTransaction().commit();

                System.out.println("Person Updated");

        }else {

                System.out.println("Invalid ID");

        }
```

```java
	}

	@Override
	public void updateAdharOnlyUsingPID() {
		// TODO Auto-generated method stub
		Session s=sf.openSession();
		System.out.println("Enter the person Id::");
		int id=sc.nextInt();
		Person person=s.get(Person.class,id);
		if(person!=null) {
			Adhar adhar=person.getAdhar();
			System.out.println("Previous
Adharnumber::"+adhar.getAdharNumber());
			System.out.println("Enter the new Adharnumber::-");
			adhar.setAdharNumber(sc.next());
			s.update(adhar);
			s.beginTransaction().commit();
			System.out.println("Adhar number Updated");
		}else {
			System.out.println("Invalid ID");
		}

	}

	@Override
	public void deletePersonOnlyUsingPID() {
		// TODO Auto-generated method stub
```

```java
        Session s=sf.openSession();

        System.out.println("Enter the person Id::");

        int id=sc.nextInt();

        Person person=s.get(Person.class,id);

        if(person!=null) {


                Adhar adhar=person.getAdhar();

                adhar.setPerson(null);

                person.setAdhar(null);

                s.update(person);

                s.delete(person);

                s.beginTransaction().commit();

                System.out.println("Person Deleted");

        }else {

                System.out.println("Invalid ID");

        }


}

@Override
public void deleteAdharOnlyUsingPID() {

        // TODO Auto-generated method stub

        Session s=sf.openSession();

        System.out.println("Enter the Person Id::");

        int id=sc.nextInt();

        Person p=s.get(Person.class, id);


        if(p!=null) {
```

```java
                Adhar ad=p.getAdhar();

                ad.setPerson(null);

                p.setAdhar(null);

                s.update(p);

                s.delete(ad);

                s.beginTransaction().commit();

                System.out.println("Adhar Deleted");

        }else {

                System.out.println("Invalid ID");

        }



}



@Override
public void displayPersonOnlyUsingAID() {

        // TODO Auto-generated method stub

        Session s=sf.openSession();

        System.out.println("Enter the Adhar Id::");

        int id=sc.nextInt();

        Adhar adhar=s.get(Adhar.class, id);



        if(adhar!=null) {

                Person person=adhar.getPerson();

                System.out.println("Person ID::"+person.getPid());

                System.out.println("Person Name::"+person.getPname());

        }else {

                System.out.println("Invalid ID");
```

```java
        }


    }


    @Override
    public void displayAdharOnlyUsingAID() {
        // TODO Auto-generated method stub
        Session s=sf.openSession();
        System.out.println("Enter the Adhar Id::");
        int id=sc.nextInt();
        Adhar adhar=s.get(Adhar.class, id);
        if(adhar!=null) {
            System.out.println("Adhar ID::"+adhar.getAdharId());
            System.out.println("Adhar Number::"+adhar.getAdharNumber());
        }else {
            System.out.println("Invalid ID");
        }

    }


    @Override
    public void updatePersonOnlyUsingAID() {
        // TODO Auto-generated method stub
        Session s=sf.openSession();
        System.out.println("Enter the Adhar Id::");
        int id=sc.nextInt();
        Adhar adhar=s.get(Adhar.class, id);
        if(adhar!=null) {
```

```java
            Person person=adhar.getPerson();

            System.out.println("Previous Name::"+person.getPname());

            System.out.println("Enter the new Name::-");

            person.setPname(sc.next());

            s.update(person);

            s.beginTransaction().commit();

            System.out.println("Person Updated");

        }else {

            System.out.println("Invalid ID");

        }


    }


    @Override
    public void updateAdharOnlyUsingAID() {
        // TODO Auto-generated method stub
        Session s=sf.openSession();

        System.out.println("Enter the Adhar Id::");

        int id=sc.nextInt();

        Adhar adhar=s.get(Adhar.class, id);

        if(adhar!=null) {


            System.out.println("Previous
Adharnumber::"+adhar.getAdharNumber());

            System.out.println("Enter the new Adharnumber::-");

            adhar.setAdharNumber(sc.next());

            s.update(adhar);

            s.beginTransaction().commit();
```

```java
				System.out.println("Adhar number Updated");

		}else {

				System.out.println("Invalid ID");

		}




	}


	@Override
	public void deletePersonOnlyUsingAID() {
			// TODO Auto-generated method stub
			Session s=sf.openSession();
			System.out.println("Enter the Adhar Id::");
			int id=sc.nextInt();
			Adhar adhar=s.get(Adhar.class, id);
			Person person=s.get(Person.class,id);
			if(adhar!=null) {

					adhar.setPerson(null);
					person.setAdhar(null);
					s.update(person);
					s.delete(person);
					s.beginTransaction().commit();
					System.out.println("Person Deleted");
			}else {
					System.out.println("Invalid ID");
			}
```

```java
        }


        @Override
        public void deleteAdharOnlyUsingAID() {
                // TODO Auto-generated method stub
                Session s=sf.openSession();
                System.out.println("Enter the Adhar Id::");
                int id=sc.nextInt();
                Adhar adhar=s.get(Adhar.class, id);



                if(adhar!=null) {


                        adhar.setPerson(null);


                        s.update(adhar);
                        s.delete(adhar);
                        s.beginTransaction().commit();
                        System.out.println("Adhar Deleted");
                }else {
                        System.out.println("Invalid ID");
                }


        }



}
```

Output

```sql
45 •   use batch63;
46 •   select * from Person;
47 •   select * from Adhar;
48 •   create database onetoonebidir;
49 •   use onetoonebidir;
50 •   select * from Person;
51 •   select * from Adhar;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

pid	pname	AdharID
1	Vinayak	1
2	Jayansh	2
4	Ravi	NULL
NULL	NULL	NULL

Person 19 ×

```java
246⊖        }else {
247            System.out.println("Invalid ID");
248        }
249
250    }
251
252    @Override
253⊖    public void deleteAdharOnlyUsingAID() {
254        // TODO Auto-generated method stub
255        Session s=sf.openSession();
256        System.out.println("Enter the Adhar Id::");
257        int id=sc.nextInt();
258        Adhar adhar=s.get(Adhar.class, id);
259
260
261⊖        if(adhar!=null) {
262
263            adhar.setPerson(null);
264
265            s.update(adhar);
266            s.delete(adhar);
267            s.beginTransaction().commit();
268            System.out.println("Adhar Deleted");
269⊖        }else {
270            System.out.println("Invalid ID");
271        }
272
273    }
274
```

```
10.Update Person only using AID
11.Update Adhar only using AID
12.Delete Person only using AID
13.Delete Adhar only using AID
14.EXIT
************************************************
Enter the choice::
13
Enter the Adhar Id::
3
Hibernate: select adhar0_.adharId as adharid1_0_0_, adhar0_.a
Hibernate: delete from Adhar where adharId=?
Adhar Deleted
************************************************
1.Add Person with Adhar
2.Display Person only using PID
3.Display Adhar using PID
4.Update Person using PID
5.Update Adhar using PID
6.Delete Person using PID
7.Delete Adhar using PID
8.Display Person only using AID
9.Display Adhar only using AID
10.Update Person only using AID
11.Update Adhar only using AID
12.Delete Person only using AID
13.Delete Adhar only using AID
14.EXIT
************************************************
```

```java
225        }
226
227
228    }
229
230    @Override
231⊖    public void deletePersonOnlyUsingAID() {
232        // TODO Auto-generated method stub
233        Session s=sf.openSession();
234        System.out.println("Enter the Adhar Id::");
235        int id=sc.nextInt();
236        Adhar adhar=s.get(Adhar.class, id);
237        Person person=s.get(Person.class,id);
238⊖        if(adhar!=null) {
239
240            adhar.setPerson(null);
241            person.setAdhar(null);
242            s.update(person);
243            s.delete(person);
244            s.beginTransaction().commit();
245            System.out.println("Person Deleted");
246⊖        }else {
247            System.out.println("Invalid ID");
248        }
249
250    }
251
252    @Override
253⊖    public void deleteAdharOnlyUsingAID() {
254        // TODO Auto-generated method stub
```

```
PersonController (1) [Java Application] D:\Java\bin\javaw.exe (4 Dec 2023, 2.38.20 pm elapsed: 0.01:45) [pid: 3200]

1.Add Person with Adhar
2.Display Person only using PID
3.Display Adhar using PID
4.Update Person using PID
5.Update Adhar using PID
6.Delete Person using PID
7.Delete Adhar using PID
8.Display Person only using AID
9.Display Adhar only using AID
10.Update Person only using AID
11.Update Adhar only using AID
12.Delete Person only using AID
13.Delete Adhar only using AID
14.EXIT
************************************************
Enter the choice::
12
Enter the Adhar Id::
3
Hibernate: select adhar0_.adharId as adharid1_0_0_, adhar0_.
Hibernate: update Adhar set adharNumber=?, person_pid=? wher
Hibernate: delete from Person where pid=?
Person Deleted
************************************************
1.Add Person with Adhar
2.Display Person only using PID
3.Display Adhar using PID
4.Update Person using PID
```

```java
201             System.out.println("Person Updated");
202         }else {
203             System.out.println("Invalid ID");
204         }
205
206     }
207
208     @Override
209     public void updateAdharOnlyUsingAID() {
210         // TODO Auto-generated method stub
211         Session s=sf.openSession();
212         System.out.println("Enter the Adhar Id::");
213         int id=sc.nextInt();
214         Adhar adhar=s.get(Adhar.class, id);
215         if(adhar!=null) {
216
217             System.out.println("Previous Adharnumber::"+ad
218             System.out.println("Enter the new Adharnumber:
219             adhar.setAdharNumber(sc.next());
220             s.update(adhar);
221             s.beginTransaction().commit();
222             System.out.println("Adhar number Updated");
223         }else {
224             System.out.println("Invalid ID");
225         }
226
227
228     }
229
230     @Override
```

```
*************************************************
1.Add Person with Adhar
2.Display Person only using PID
3.Display Adhar using PID
4.Update Person using PID
5.Update Adhar using PID
6.Delete Person using PID
7.Delete Adhar using PID
8.Display Person only using AID
9.Display Adhar only using AID
10.Update Person only using AID
11.Update Adhar only using AID
12.Delete Person only using AID
13.Delete Adhar only using AID
14.EXIT
*************************************************
Enter the choice::
11
Enter the Adhar Id::
3
Hibernate: select adhar0_.adharId as adharid1_0_0_, adhar0_.a
Previous Adharnumber::7345
Enter the new Adharnumber::-
1867
Hibernate: update Adhar set adharNumber=?, person_pid=? where
Adhar number Updated
*************************************************
1.Add Person with Adhar
2.Display Person only using PID
```

```sql
47 •    select * from Adhar;
48 •    create database onetoonebidir;
49 •    use onetoonebidir;
50 •    select * from Person;
51 •    select * from Adhar;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

pid	pname	AdharID
1	Vinayak	1
2	Jayansh	2
3	Shivraj	3
4	Ravi	NULL
NULL	NULL	NULL

Person 15 ✕

```java
177        Adhar adhar=s.get(Adhar.class, id);
178        if(adhar!=null) {
179            System.out.println("Adhar ID::"+adhar.getAdhar
180            System.out.println("Adhar Number::"+adhar.getA
181        }else {
182            System.out.println("Invalid ID");
183        }
184
185    }
186
187    @Override
188    public void updatePersonOnlyUsingAID() {
189        // TODO Auto-generated method stub
190        Session s=sf.openSession();
191        System.out.println("Enter the Adhar Id::");
192        int id=sc.nextInt();
193        Adhar adhar=s.get(Adhar.class, id);
194        if(adhar!=null) {
195            Person person=adhar.getPerson();
196            System.out.println("Previous Name::"+person.ge
197            System.out.println("Enter the new Name::-");
198            person.setPname(sc.next());
199            s.update(person);
200            s.beginTransaction().commit();
201            System.out.println("Person Updated");
202        }else {
203            System.out.println("Invalid ID");
204        }
205
206    }
```

```
**********************************************
Enter the choice::
10
Enter the Adhar Id::
3
Hibernate: select adhar0_.adharId as adharid1_0_0_, adhar0_.a
Previous Name::Raj
Enter the new Name::-
Shivraj
Hibernate: update Person set AdharID=?, pname=? where pid=?
Person Updated
**********************************************
1.Add Person with Adhar
2.Display Person only using PID
3.Display Adhar using PID
4.Update Person using PID
5.Update Adhar using PID
6.Delete Person using PID
7.Delete Adhar using PID
8.Display Person only using AID
9.Display Adhar only using AID
10.Update Person only using AID
11.Update Person only using AID
12.Delete Person only using AID
13.Delete Adhar only using AID
14.EXIT
**********************************************
Enter the choice::
```

```java
    }

    @Override
    public void displayAdharOnlyUsingAID() {
        // TODO Auto-generated method stub
        Session s=sf.openSession();
        System.out.println("Enter the Adhar Id::");
        int id=sc.nextInt();
        Adhar adhar=s.get(Adhar.class, id);
        if(adhar!=null) {
            System.out.println("Adhar ID::"+adhar.getAdharId());
            System.out.println("Adhar Number::"+adhar.getAdharNumbe
        }else {
            System.out.println("Invalid ID");
        }

    }

    @Override
    public void updatePersonOnlyUsingAID() {
        // TODO Auto-generated method stub

    }

    @Override
    public void updateAdharOnlyUsingAID() {
        // TODO Auto-generated method stub
```

```
13.Delete Adhar only using AID
14.EXIT
**********************************************
Enter the choice::
9
Enter the Adhar Id::
3
Hibernate: select adhar0_.adharId as adharid1_0_0_,
Adhar ID::3
Adhar Number::7345
**********************************************
1.Add Person with Adhar
2.Display Person only using PID
3.Display Adhar using PID
4.Update Person using PID
5.Update Adhar using PID
6.Delete Person using PID
7.Delete Adhar using PID
8.Display Person only using AID
9.Display Adhar only using AID
10.Update Person only using AID
11.Update Person only using AID
12.Delete Person only using AID
13.Delete Adhar only using AID
14.EXIT
```

```java
150
151    }
152
153    @Override
154    public void displayPersonOnlyUsingAID() {
155        // TODO Auto-generated method stub
156        Session s=sf.openSession();
157        System.out.println("Enter the Adhar Id::");
158        int id=sc.nextInt();
159        Adhar adhar=s.get(Adhar.class, id);
160
161        if(adhar!=null) {
162            Person person=adhar.getPerson();
163            System.out.println("Person ID::"+person.getPid());
164            System.out.println("Person Name::"+person.getPname());
165        }else {
166            System.out.println("Invalid ID");
167        }
168
169    }
170
171    @Override
172    public void displayAdharOnlyUsingAID() {
173        // TODO Auto-generated method stub
174        Session s=sf.openSession();
175        System.out.println("Enter the Adhar Id::");
176        int id=sc.nextInt();
```

```
13.Delete Adhar only using AID
14.EXIT
**********************************************
Enter the choice::
8
Enter the Adhar Id::
3
Hibernate: select adhar0_.adharId as adharid1_0_0_,
Person ID::3
Person Name::Raj
**********************************************
1.Add Person with Adhar
2.Display Person only using PID
3.Display Adhar using PID
4.Update Person using PID
5.Update Adhar using PID
6.Delete Person using PID
7.Delete Adhar using PID
8.Display Person only using AID
9.Display Adhar only using AID
10.Update Person only using AID
11.Update Person only using AID
12.Delete Person only using AID
13.Delete Adhar only using AID
14.EXIT
```