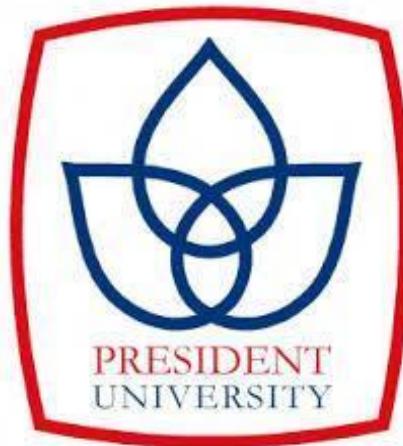


Project Object Oriented Visual Programming

Movie Ticket Management Java Application



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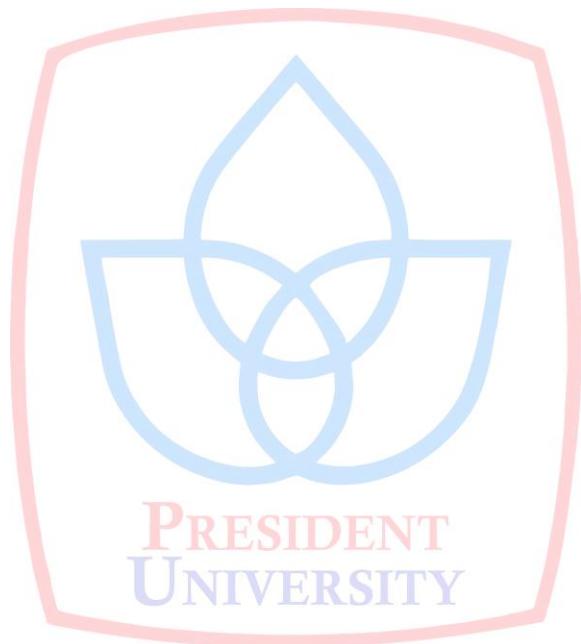
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BAB I

INTRODUCTION

1.1 BACKGROUND

In today's dynamic world, where time is a precious commodity, the demand for efficient and convenient solutions has permeated every aspect of our lives. The entertainment industry, particularly the world of cinema, is no exception to this trend. Movie enthusiasts eagerly seek seamless and hassle-free ways to indulge in their passion for captivating cinematic experiences.

However, the traditional methods of movie ticket booking often fall short of meeting these expectations. The manual process of purchasing tickets at cinema counters can be time-consuming and inconvenient, often leading to long queues and frustration among eager moviegoers. Additionally, the lack of comprehensive and readily available movie information on traditional ticketing platforms often leaves users struggling to make informed decisions about their cinematic choices.

To address these shortcomings and elevate the movie-watching experience, innovative solutions are urgently needed. The development of a user-friendly, informative, and feature-rich movie ticketing application has emerged as a promising approach to revolutionize the way we access and enjoy the magic of cinema.

1.2 PROBLEM STATEMENT

The current movie ticketing landscape is plagued by several fundamental issues that hinder the overall user experience:

- a. **Manual Booking System:** The archaic process of purchasing movie tickets manually at cinema counters remains a significant inconvenience, often resulting in lengthy queues

- b. and wasted time for movie enthusiasts. This outdated system fails to align with the fast-paced nature of modern life, where efficiency and convenience are paramount.
- c. **Lack of Comprehensive Movie Information:** Traditional ticketing platforms often lack the depth and breadth of movie information that users seek to make informed decisions about their cinematic choices. Essential details such as synopses, trailers, ratings, and user reviews are often scarce or inaccessible, leaving users with limited insights into the films they consider watching.
- d. **Limited Movie Selection:** The range of movies available on traditional ticketing platforms often falls short of meeting the diverse preferences of moviegoers. The lack of variety restricts users' options and hinders their ability to discover films that align with their interests and tastes.

These challenges collectively create a frustrating and unsatisfactory experience for movie enthusiasts, diminishing the overall enjoyment of their cinematic endeavors.

1.3 OBJECTIVE

Driven by the desire to transform the movie-watching experience, this project aims to develop a user-friendly, informative, and feature-rich movie ticketing application that addresses the shortcomings of traditional ticketing methods. The application will empower users to seamlessly book tickets, access comprehensive movie information, and discover a diverse range of films. Here's a breakdown of the key objectives:

- a. **Simplify Movie Ticket Booking:** The application will streamline the ticket booking process, enabling users to purchase tickets quickly and conveniently.
- b. **Enhance Movie Information Accessibility:** Provide users with detailed synopses, trailers, ratings, and reviews to make informed choices.
- c. **Expand Movie Selection:** Offer a vast selection of movies from various genres and countries, catering to diverse preferences.
- d. **Increase User Convenience and Satisfaction:** Ultimately, create a seamless and enjoyable movie-watching experience through streamlined booking, rich information, and diverse film choices.

e. PROJECT BENEFITS

The implementation of this innovative movie ticketing application will bring forth a multitude of benefits for users, including:

- a. **Simplified Movie Ticket Booking:** The application will streamline the ticket booking process, enabling users to purchase tickets quickly and conveniently from the comfort of their own devices. This eliminates the need for lengthy queues at cinema counters, saving users valuable time and effort.
- b. **Comprehensive Movie Information:** The application will serve as a comprehensive resource for movie information, providing users with detailed synopses, engaging trailers, informative ratings, and insightful user reviews. This wealth of information will empower users to make informed decisions about their cinematic choices, ensuring they select films that align with their preferences and expectations.
- c. **Wide Variety of Films:** The application will offer an extensive selection of movies from various genres and countries, catering to the diverse tastes and interests of movie enthusiasts. This wide array of choices will enable users to discover new films, explore different cinematic styles, and expand their horizons in the world of cinema.
- d. **Enhanced User Convenience and Satisfaction:** By addressing the limitations of traditional ticketing methods, the application will significantly enhance user convenience and satisfaction. The streamlined booking process, comprehensive movie information, and diverse film selection will collectively create a seamless and enjoyable movie-watching experience for all users.

f. APPLICATION

This versatile movie ticketing application will cater to a broad spectrum of users, including:

- a. Movie Enthusiasts:** Avid moviegoers who seek convenient and hassle-free ways to book tickets and access comprehensive movie information.
- b. Families:** Families seeking a fun and engaging way to enjoy movies together, with the ease of booking tickets and selecting films that appeal to all ages.
- c. Students:** Students on a budget who appreciate the convenience and affordability of booking tickets through the application.
- d. General Users:** Individuals who enjoy watching movies and appreciate the wide variety of films available on the application.

The application's accessibility across various devices, including smartphones, tablets, and computers, will further enhance its usability and broaden its reach, allowing users to access its features anytime, anywhere.

g. LINK APPLICATION

Github :

https://github.com/abdurrahmankhairi/laravel_project.git

BAB II

THEORITICAL FRAMEWORK

2.1 JAVA NETBEANS

2.1.1 *Rationale for Selecting Java NetBeans*

The decision to utilize Java NetBeans as the primary development environment for this final project was driven by several compelling factors:

- a. **Robustness and Versatility:** Java is a widely recognized and mature programming language renowned for its object-oriented paradigm, platform independence, and extensive security features. Its versatility makes it suitable for developing a wide range of applications, including complex enterprise systems.
- b. **NetBeans IDE's Comprehensive Features:** NetBeans IDE offers a comprehensive suite of tools and functionalities that streamline the development process, enhancing productivity and efficiency. Its intuitive graphical user interface, code completion capabilities, and debugging tools significantly expedite the development cycle.
- c. **Seamless Integration with MySQL Database:** MySQL is a popular open-source relational database management system known for its reliability, scalability, and ease of use. NetBeans IDE provides seamless integration with MySQL, enabling effortless data management and manipulation within the application.

2.1.2 *Key Advantages of Java NetBeans*

The combination of Java and NetBeans IDE offers a multitude of advantages for developing this movie ticketing application:

- a. **Simplified Development:** Java's object-oriented programming approach and NetBeans IDE's intuitive tools facilitate efficient coding and rapid prototyping.
- b. **Robust Application:** Java's inherent security features and NetBeans IDE's debugging tools ensure the application's stability and reliability.

- c. **Scalable Solution:** Java's scalability and NetBeans IDE's modular design enable the application to accommodate future growth and enhancements.
- d. **Cross-Platform Compatibility:** Java's platform independence ensures the application runs seamlessly across various operating systems, expanding its reach.

2.1.3 *Specific Features of NetBeans IDE 21*

NetBeans IDE 21 provides a plethora of features that significantly enhance the development experience:

- a. **Intuitive Graphical User Interface:** The user-friendly interface simplifies navigation and access to development tools.
- b. **Advanced Code Completion:** Intelligent code completion suggestions streamline coding and reduce errors.
- c. **Refactoring Tools:** Powerful refactoring tools facilitate code restructuring and maintainability.
- d. **Integrated Debugging Tools:** Comprehensive debugging tools aid in identifying and resolving software defects.
- e. **Version Control Integration:** Seamless integration with version control systems like Git promotes collaboration and code management.

2.1.4 *MySQL Connector 8.0.25 Integration*

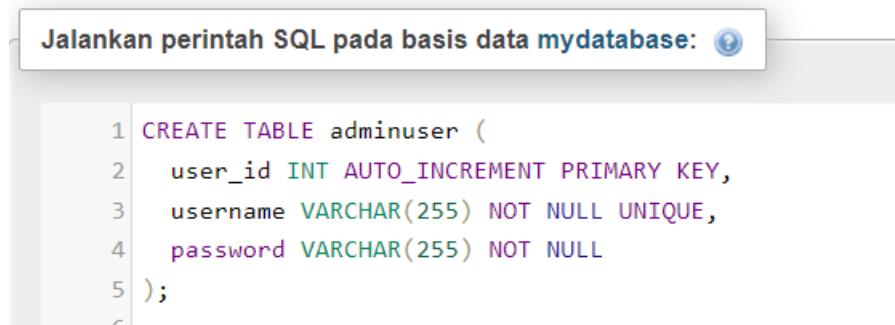
MySQL Connector 8.0.25 plays a crucial role in enabling effective database interaction:

- a. **Database Connectivity:** Establishes a robust connection between the application and the MySQL database.
- b. **Data Manipulation:** Facilitates efficient data retrieval, insertion, updates, and deletions within the application.
- c. **Database Administration:** Provides tools for managing database schema, users, and permissions.

2.2 DATABASE CONNECTION

2.2.1 AdminUser

a. MySQL Code



Jalankan perintah SQL pada basis data mydatabase:

```
1 CREATE TABLE adminuser (
2     user_id INT AUTO_INCREMENT PRIMARY KEY,
3     username VARCHAR(255) NOT NULL UNIQUE,
4     password VARCHAR(255) NOT NULL
5 );
6
```

Image 2.2.1.1 mySQL Code Table AdminUser

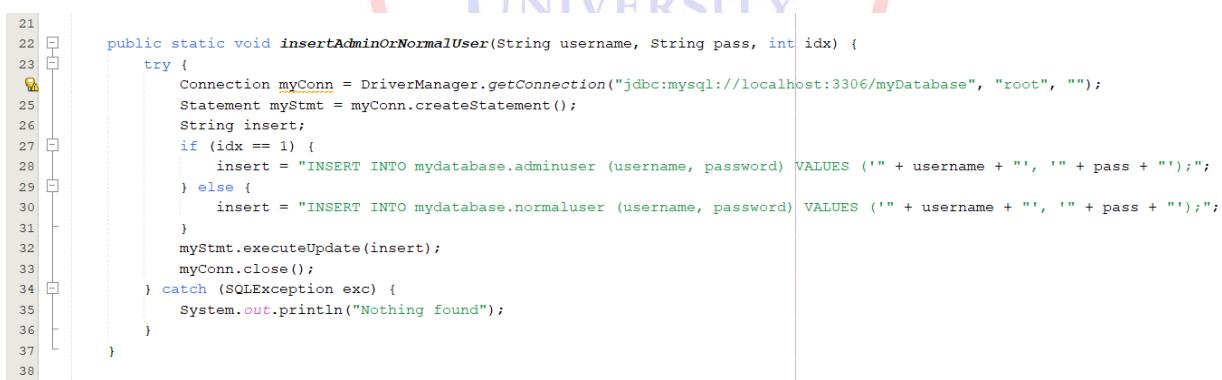
b. MySQL Table



	Ubah	Salin	Hapus	user_id	username	password
<input type="checkbox"/>				1	khairiadmin	adminpassword
<input type="checkbox"/>				3	vikoadmin	vikoadmin
<input type="checkbox"/>				4	ragiladmin	ragiladmin
<input type="checkbox"/>				5	mamdeffa	mamdeffa

Image 2.2.1.2 Database Table AdminUser

c. Connection Java Netbeans



```
21
22 public static void insertAdminOrNormalUser(String username, String pass, int idx) {
23     try {
24         Connection myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
25         Statement myStmt = myConn.createStatement();
26         String insert;
27         if (idx == 1) {
28             insert = "INSERT INTO mydatabase.adminuser (username, password) VALUES ('" + username + "', '" + pass + "');";
29         } else {
30             insert = "INSERT INTO mydatabase.normaluser (username, password) VALUES ('" + username + "', '" + pass + "');";
31         }
32         myStmt.executeUpdate(insert);
33         myConn.close();
34     } catch (SQLException exc) {
35         System.out.println("Nothing found");
36     }
37 }
```

Image 2.2.1.3 Database Connection Insert Admin or Normal User

```

50
51     public static boolean adminOrNormalExists(String username, int idx) {
52         Connection myConn = null;
53         try {
54             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
55             Statement myStmt = myConn.createStatement();
56             String insert;
57             if (idx == 1) {
58                 insert = "SELECT * FROM mydatabase.adminuser WHERE username = '" + username + "'";
59             } else {
60                 insert = "SELECT * FROM mydatabase.normaluser WHERE username = '" + username + "'";
61             }
62             ResultSet myRs = myStmt.executeQuery(insert);
63             boolean found = false;
64             while (myRs.next()) {
65                 found = true;
66             }
67             myConn.close();
68             return found;
69         } catch (SQLException exc) {
70             System.out.println("Nothing found");
71             return false;
72         } finally {
73             try {
74                 myConn.close();
75             } catch (SQLException ex) {
76                 Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
77             }
78         }
79     }

```

Image 2.2.1.4 Database Connection Admin or Normal Exist

```

81
82     public static boolean validAdminOrNormal(String username, String password, int idx) {
83         Connection myConn = null;
84         try {
85             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/moviedatabase", "root", "");
86             Statement myStmt = myConn.createStatement();
87             String insert;
88             if (idx == 1) {
89                 insert = "SELECT * FROM mydatabase.adminuser WHERE username = '" + username + "'";
90             } else {
91                 insert = "SELECT * FROM mydatabase.normaluser WHERE username = '" + username + "'";
92             }
93             ResultSet myRs = myStmt.executeQuery(insert);
94             boolean found = false;
95             String cur = "";
96             while (myRs.next()) {
97                 found = true;
98                 cur = myRs.getString("password");
99             }
100            myConn.close();
101            return password.equals(cur);
102        } catch (SQLException exc) {
103            System.out.println("Nothing found");
104            return false;
105        } finally {
106            try {
107                myConn.close();
108            } catch (SQLException ex) {
109                Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
110            }
111        }

```

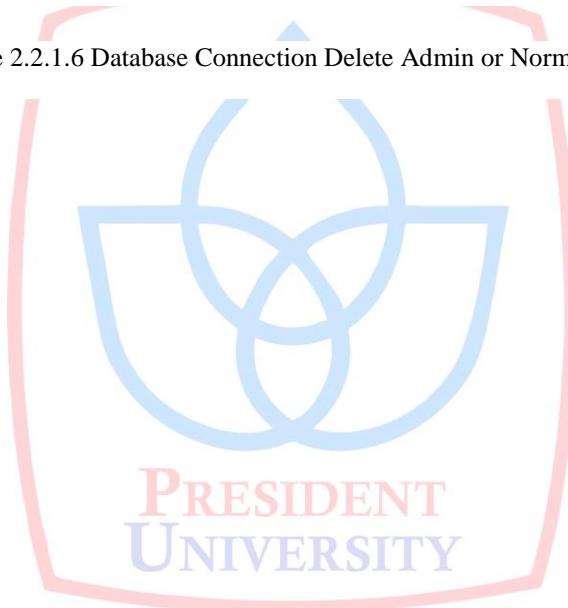
Image 2.2.1.5 Database Connection Validation Admin or Normal User

```

159
160
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171
172
173
174
175
176
177
178
179
180
181
182
}

```

Image 2.2.1.6 Database Connection Delete Admin or Normal User



2.2.2 NormalUser

a. MySQL Code

```
Jalankan perintah SQL pada basis data mydatabase: ⓘ  
1 CREATE TABLE normaluser (  
2     user_id INT AUTO_INCREMENT PRIMARY KEY,  
3     username VARCHAR(255) NOT NULL UNIQUE,  
4     password VARCHAR(255) NOT NULL  
5 );  
6 |
```

Image 2.2.2.1 mySQL Code Database Table NormalUser

b. MySQL Table

	Ubah	Salin	Hapus	user_id	username	password
<input type="checkbox"/>				2	moshe	password
<input type="checkbox"/>				3	ragil	ragil
<input type="checkbox"/>				4	vikoadrian	vikoadrian
<input type="checkbox"/>				5	mamdeffa	mamdeffa
<input type="checkbox"/>				6	abdur	password

Image 2.2.2.2 Database Table NormalUser

c. Connection Java Netbeans

```
21  
22 public static void insertAdminOrNormalUser(String username, String pass, int idx) {  
23     try {  
24         Connection myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");  
25         Statement myStmt = myConn.createStatement();  
26         String insert;  
27         if (idx == 1) {  
28             insert = "INSERT INTO mydatabase.adminuser (username, password) VALUES ('" + username + "', '" + pass + "');";  
29         } else {  
30             insert = "INSERT INTO mydatabase.normaluser (username, password) VALUES ('" + username + "', '" + pass + "');";  
31         }  
32         myStmt.executeUpdate(insert);  
33         myConn.close();  
34     } catch (SQLException exc) {  
35         System.out.println("Nothing found");  
36     }  
37 }  
38 }
```

Image 2.2.2.7 Database Connection Insert Admin or Normal User

```

50
51     public static boolean adminOrNormalExists(String username, int idx) {
52         Connection myConn = null;
53         try {
54             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
55             Statement myStmt = myConn.createStatement();
56             String insert;
57             if (idx == 1) {
58                 insert = "SELECT * FROM mydatabase.adminuser WHERE username = '" + username + "'";
59             } else {
60                 insert = "SELECT * FROM mydatabase.normaluser WHERE username = '" + username + "'";
61             }
62             ResultSet myRs = myStmt.executeQuery(insert);
63             boolean found = false;
64             while (myRs.next()) {
65                 found = true;
66             }
67             myConn.close();
68             return found;
69         } catch (SQLException exc) {
70             System.out.println("Nothing found");
71             return false;
72         } finally {
73             try {
74                 myConn.close();
75             } catch (SQLException ex) {
76                 Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
77             }
78         }
79     }

```

Image 2.2.2.8 Database Connection Admin or Normal Exist

```

81
82     public static boolean validAdminOrNormal(String username, String password, int idx) {
83         Connection myConn = null;
84         try {
85             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/moviedatabase", "root", "");
86             Statement myStmt = myConn.createStatement();
87             String insert;
88             if (idx == 1) {
89                 insert = "SELECT * FROM mydatabase.adminuser WHERE username = '" + username + "'";
90             } else {
91                 insert = "SELECT * FROM mydatabase.normaluser WHERE username = '" + username + "'";
92             }
93             ResultSet myRs = myStmt.executeQuery(insert);
94             boolean found = false;
95             String cur = "";
96             while (myRs.next()) {
97                 found = true;
98                 cur = myRs.getString("password");
99             }
100            myConn.close();
101            return password.equals(cur);
102        } catch (SQLException exc) {
103            System.out.println("Nothing found");
104            return false;
105        } finally {
106            try {
107                myConn.close();
108            } catch (SQLException ex) {
109                Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
110            }
111        }
112    }

```

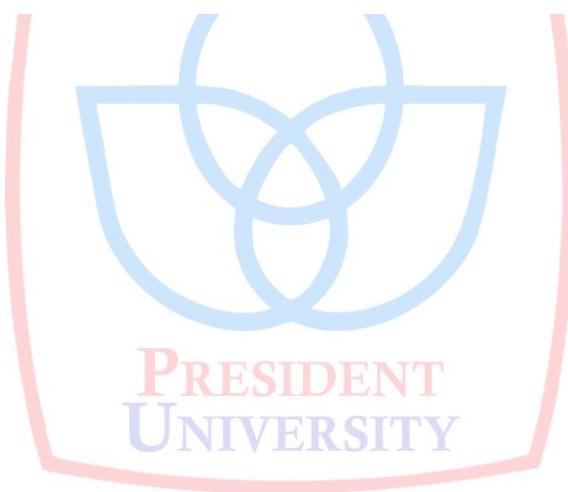
Image 2.2.2.9 Database Connection Validation Admin or Normal User

```

159     public static void deleteAdminOrNormal(String username, int idx) {
160         Connection myConn = null;
161         try {
162             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
163             Statement myStmt = myConn.createStatement();
164             String insert;
165             if (idx == 1) {
166                 insert = "DELETE FROM mydatabase.adminuser WHERE username = '" + username + "'";
167             } else {
168                 insert = "DELETE FROM mydatabase.normaluser WHERE username ='" + username + "'";
169             }
170             //System.out.println(insert);
171             myStmt.executeUpdate(insert);
172             myConn.close();
173         } catch (SQLException exc) {
174             System.out.println("Nothing found");
175         } finally {
176             try {
177                 myConn.close();
178             } catch (SQLException ex) {
179                 Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
180             }
181         }
182     }

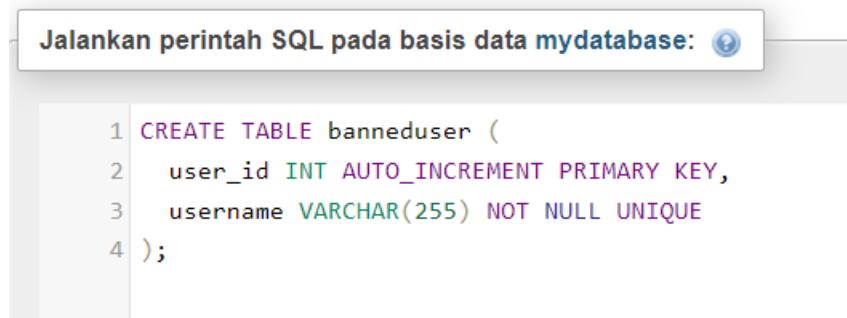
```

Image 2.2.2.10 Database Connection Delete Admin or Normal User



2.2.3 BannedUser

a. MySQL Code

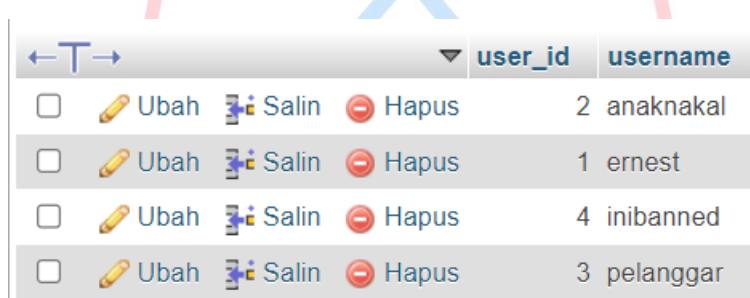


Jalankan perintah SQL pada basis data mydatabase:

```
1 CREATE TABLE banneduser (
2     user_id INT AUTO_INCREMENT PRIMARY KEY,
3     username VARCHAR(255) NOT NULL UNIQUE
4 );
```

Image 2.2.3.1 mySQL Code Database Table BannedUser

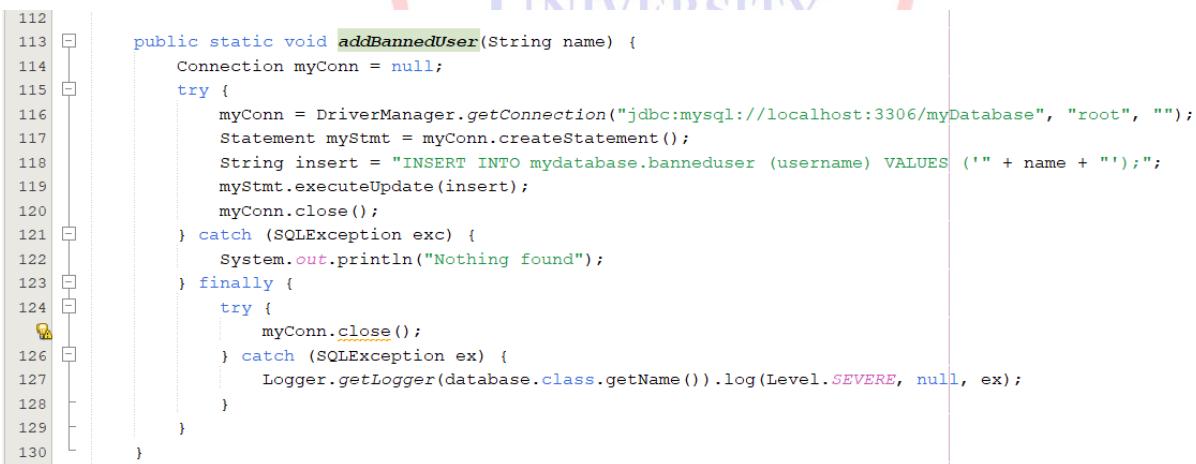
b. MySQL Table



			user_id	username
<input type="checkbox"/>	Ubah	Salin	2	anaknakal
<input type="checkbox"/>	Ubah	Salin	1	ernest
<input type="checkbox"/>	Ubah	Salin	4	inibanned
<input type="checkbox"/>	Ubah	Salin	3	pelanggar

Image 2.2.3.2 Database Table BannedUser

c. Connection Java Netbeans



```
112
113     public static void addBannedUser(String name) {
114         Connection myConn = null;
115         try {
116             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
117             Statement myStmt = myConn.createStatement();
118             String insert = "INSERT INTO mydatabase.banneduser (username) VALUES ('" + name + "');";
119             myStmt.executeUpdate(insert);
120             myConn.close();
121         } catch (SQLException exc) {
122             System.out.println("Nothing found");
123         } finally {
124             try {
125                 myConn.close();
126             } catch (SQLException ex) {
127                 Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
128             }
129         }
130     }
```

Image 2.2.3.3 Database Connection Add Banned User

```

131
132     public static boolean bannedUser(String username) {
133         Connection myConn = null;
134         try {
135             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
136             Statement myStmt = myConn.createStatement();
137             String insert = "SELECT * FROM mydatabase.bannedUser WHERE username = '" + username + "'";
138
139             ResultSet myRs = myStmt.executeQuery(insert);
140             boolean found = false;
141             String cur = "";
142             while (myRs.next()) {
143                 found = true;
144             }
145             myConn.close();
146             return found;
147         } catch (SQLException exc) {
148             System.out.println("Nothing found");
149             return false;
150         } finally {
151             try {
152                 myConn.close();
153             } catch (SQLException ex) {
154                 Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
155             }
156         }
157     }

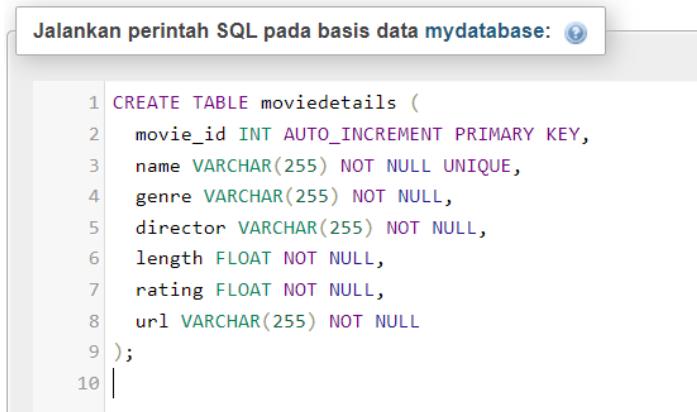
```

Image 2.2.3.4 Database Connection Banned User



2.2.4 MovieDetails

a. MySQL Code



```
Jalankan perintah SQL pada basis data mydatabase: ⓘ  
1 CREATE TABLE moviedetails (  
2     movie_id INT AUTO_INCREMENT PRIMARY KEY,  
3     name VARCHAR(255) NOT NULL UNIQUE,  
4     genre VARCHAR(255) NOT NULL,  
5     director VARCHAR(255) NOT NULL,  
6     length FLOAT NOT NULL,  
7     rating FLOAT NOT NULL,  
8     url VARCHAR(255) NOT NULL  
9 );  
10 |
```

Image 2.2.4.1 mySQL Code Database Table MovieDetails

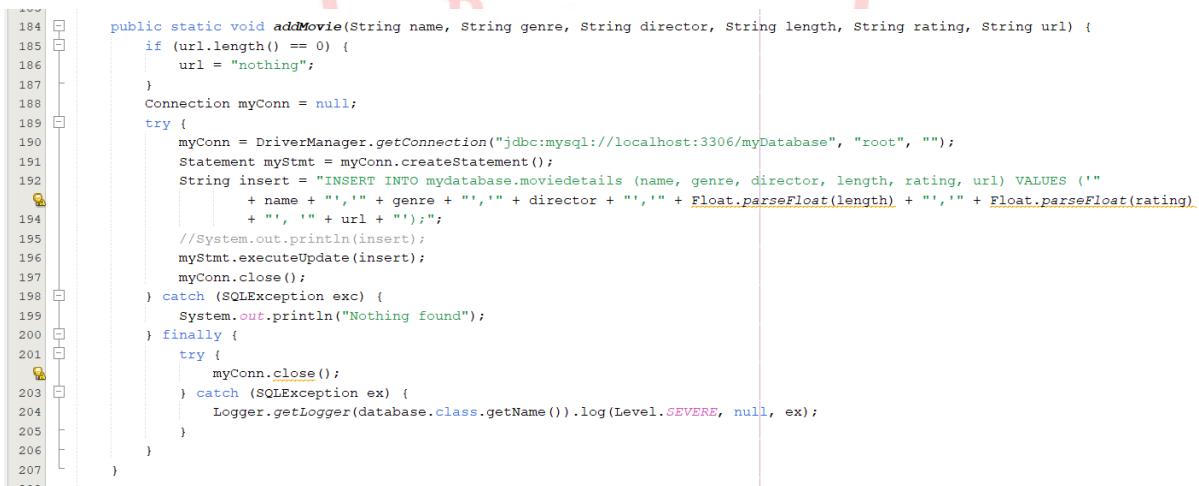
b. MySQL Table



	movie_id	name	genre	director	length	rating	url
<input type="checkbox"/>	2	THE AVENGERS	ACTION	ANTHONY RUSSO	213	4.9	https://www.google.com/url?sa=i&url=https%3A%2F%2F...
<input type="checkbox"/>	4	THE MARVELS	ACTION	NIA DACOSTA	105	4.75	D KuliahMs. Deffa RahadianFINALMovieDatabaseBuild...
<input type="checkbox"/>	6	THE NUN	HORROR	CORIN HARDY	96	9.2	D KuliahMs. Deffa RahadianFINALMovieDatabaseBuild...
<input type="checkbox"/>	7	MOANA	ANIMATION	JOHN MUSKER	107	4.6	D KuliahMs. Deffa RahadianFINALMovieDatabaseBuild...

Image 2.2.4.2 Database Connection Table MovieDetails

c. Connection Java Netbeans



```
184 public static void addMovie(String name, String genre, String director, String length, String rating, String url) {  
185     if (url.length() == 0) {  
186         url = "nothing";  
187     }  
188     Connection myConn = null;  
189     try {  
190         myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");  
191         Statement myStmt = myConn.createStatement();  
192         String insert = "INSERT INTO mydatabase.moviedetails (name, genre, director, length, rating, url) VALUES ("  
193             + name + "','" + genre + "','" + director + "','" + Float.parseFloat(length) + "','" + Float.parseFloat(rating)  
194             + "','" + url + "')";  
195         myStmt.executeUpdate(insert);  
196         myConn.close();  
197     } catch (SQLException exc) {  
198         System.out.println("Nothing found");  
199     } finally {  
200         try {  
201             myConn.close();  
202         } catch (SQLException ex) {  
203             Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);  
204         }  
205     }  
206 }  
207 }  
208 }
```

Image 2.2.4.3 Database Connection Add Movie

```
209 public static boolean checkMovie(String s) {
210     Connection myConn = null;
211     try {
212         myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
213         Statement myStmt = myConn.createStatement();
214         String insert;
215         insert = "SELECT * FROM mydatabase.moviedetails WHERE name = '" + s + "'";
216         ResultSet myRs = myStmt.executeQuery(insert);
217         boolean found = false;
218         while (myRs.next()) {
219             found = true;
220         }
221         myConn.close();
222         return found;
223     } catch (SQLException exc) {
224         System.out.println("Nothing found");
225         return false;
226     } finally {
227         try {
228             myConn.close();
229         } catch (SQLException ex) {
230             Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
231         }
232     }
233 }
```

Image 2.2.4.4 Database Connection Check Movie

```
260 public static void deleteMovieOrRequest(String s, int idx) {
261     Connection myConn = null;
262     try {
263         myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
264         Statement myStmt = myConn.createStatement();
265         String insert;
266         if (idx == 1) {
267             insert = "DELETE FROM mydatabase.moviedetails WHERE name = '" + s + "'";
268         } else {
269             insert = "DELETE FROM mydatabase.movierequest WHERE moviename = '" + s + "'";
270         }
271         System.out.println(insert);
272         myStmt.executeUpdate(insert);
273         myConn.close();
274     } catch (SQLException exc) {
275         System.out.println("Nothing found");
276     } finally {
277         try {
278             myConn.close();
279         } catch (SQLException ex) {
280             Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
281         }
282     }
283 }
```

Image 2.2.4.5 Database Connection Delete Movie and Request

```

285     public static String getMovieDetails(String s) {
286         Connection myConn = null;
287         try {
288             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
289             Statement myStmt = myConn.createStatement();
290             String insert = "SELECT * FROM mydatabase.moviedetails WHERE name = '" + s + "'";
291             ResultSet myRs = myStmt.executeQuery(insert);
292             String cur = "";
293             while (myRs.next()) {
294                 cur += myRs.getString("name");
295                 cur += ",";
296                 cur += myRs.getString("genre");
297                 cur += ",";
298                 cur += myRs.getString("director");
299                 cur += ",";
300                 cur += String.valueOf(myRs.getString("length"));
301                 cur += ",";
302                 cur += String.valueOf(myRs.getString("rating"));
303                 cur += ",";
304                 cur += myRs.getString("url");
305             }
306             myConn.close();
307             return cur;
308         } catch (SQLException exc) {
309             System.out.println("Nothing found");
310         } finally {
311             try {
312                 myConn.close();
313             } catch (SQLException ex) {
314                 Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
315             }
316         }
317     }
318 }
```

Image 2.2.4.6 Database Connection Get Show Movie

```

390     public static String getGenreOrDirector(String name, int type) {
391         Connection myConn = null;
392         try {
393             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
394             Statement myStmt = myConn.createStatement();
395             String insert = "SELECT * FROM mydatabase.moviedetails";
396             ResultSet myRs = myStmt.executeQuery(insert);
397             String cur = "";
398             boolean add = false;
399             while (myRs.next()) {
400                 if ((type == 1 && myRs.getString("genre").equals(name))
401                     || (type == 2 && myRs.getString("director").equals(name))) {
402                     if (add) {
403                         cur += "+";
404                     }
405                     cur += myRs.getString("name");
406                     cur += ",";
407                     cur += myRs.getString("genre");
408                     cur += ",";
409                     cur += myRs.getString("director");
410                     cur += ",";
411                     cur += String.valueOf(myRs.getString("length"));
412                     cur += ",";
413                     cur += String.valueOf(myRs.getString("rating"));
414                     cur += ",";
415                     cur += myRs.getString("url");
416                     add = true;
417                 }
418             }
419             myConn.close();
420             if (cur.length() == 0) {
421                 cur = "NOTHING";
422             }
423             return cur;
424         } catch (SQLException exc) {
425             System.out.println("Nothing found");
426         } finally {
```

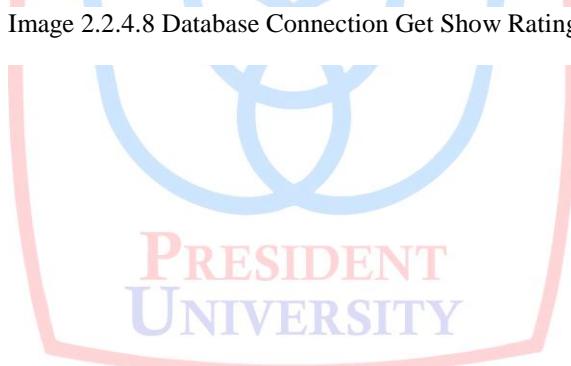
Image 2.2.4.7 Database Connection Get Show Genre or Director

```

500
501     public static String getRating(float start, float end) {
502         //System.out.println(start + " " + end);
503         if (start > end) {
504             float x = end;
505             end = start;
506             start = x;
507         }
508         Connection myConn = null;
509         try {
510             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
511             Statement myStmt = myConn.createStatement();
512             String insert = "SELECT * FROM mydatabase.movieDetails;";
513             ResultSet myRs = myStmt.executeQuery(insert);
514             String cur = "";
515             boolean add = false;
516             while (myRs.next()) {
517                 float f = Float.parseFloat(myRs.getString("rating"));
518                 if (f >= start && f <= end) {
519                     if (add) {
520                         cur += "+";
521                     }
522                     cur += myRs.getString("name");
523                     cur += ",";
524                     cur += myRs.getString("genre");
525                     cur += ",";
526                     cur += myRs.getString("director");
527                     cur += ",";
528                     cur += String.valueOf(myRs.getString("length"));
529                     cur += ",";
530                     cur += String.valueOf(myRs.getString("rating"));
531                     cur += ",";
532                     cur += myRs.getString("url");
533                     add = true;
534                 }
535             }
536             myConn.close();
537         }
538     }

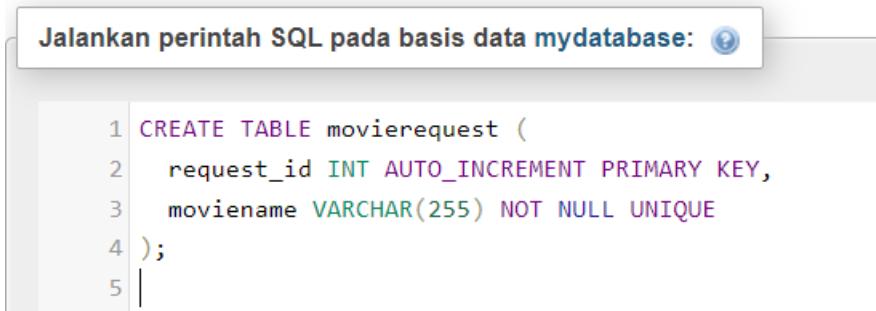
```

Image 2.2.4.8 Database Connection Get Show Rating



2.2.5 MovieRequest

a. MySQL Code

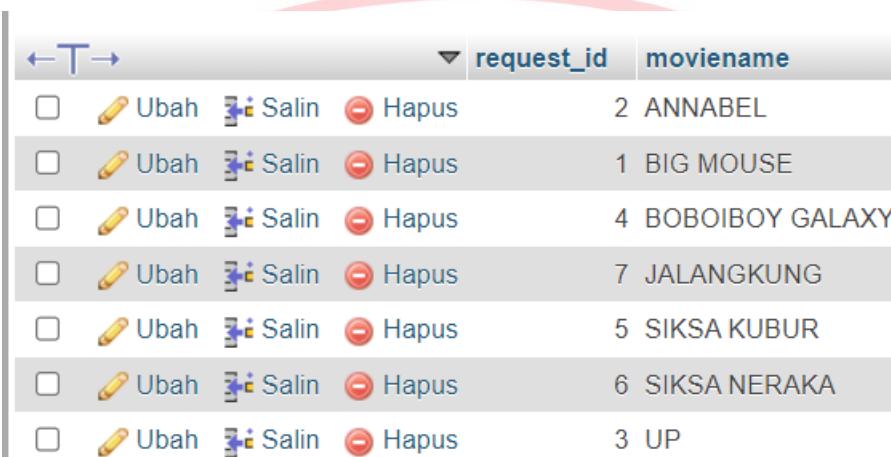


Jalankan perintah SQL pada basis data mydatabase:

```
1 CREATE TABLE movieRequest (
2     request_id INT AUTO_INCREMENT PRIMARY KEY,
3     moviename VARCHAR(255) NOT NULL UNIQUE
4 );
5 |
```

Image 2.2.5.1 mySQL Code Database Table MovieRequest

b. MySQL Table



		request_id	moviename
<input type="checkbox"/>	Ubah Salin Hapus	2	ANNABEL
<input type="checkbox"/>	Ubah Salin Hapus	1	BIG MOUSE
<input type="checkbox"/>	Ubah Salin Hapus	4	BOBOIBOY GALAXY
<input type="checkbox"/>	Ubah Salin Hapus	7	JALANGKUNG
<input type="checkbox"/>	Ubah Salin Hapus	5	SIKSA KUBUR
<input type="checkbox"/>	Ubah Salin Hapus	6	SIKSA NERAKA
<input type="checkbox"/>	Ubah Salin Hapus	3	UP

Image 2.2.5.2 Database Table MovieRequest

c. Connection Java Netbeans



```
39 public static void addMovieRequest(String name) {
40     try {
41         Connection myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
42         Statement myStmt = myConn.createStatement();
43         String insert = "INSERT INTO myDatabase.movieRequest (moviename) VALUES ('" + name + "');";
44         myStmt.executeUpdate(insert);
45         myConn.close();
46     } catch (SQLException exc) {
47         System.out.println("Nothing found");
48     }
49 }
```

Image 2.2.5.3 Database Connection Add Request Movie

```

235     public static boolean movieRequestExists(String name) {
236         Connection myConn = null;
237         try {
238             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
239             Statement myStmt = myConn.createStatement();
240             String insert = "SELECT * FROM mydatabase.movieRequest WHERE moviename = '" + name + "'";
241             ResultSet myRs = myStmt.executeQuery(insert);
242             boolean found = false;
243             while (myRs.next()) {
244                 found = true;
245             }
246             myConn.close();
247             return found;
248         } catch (SQLException exc) {
249             System.out.println("Nothing found");
250             return false;
251         } finally {
252             try {
253                 myConn.close();
254             } catch (SQLException ex) {
255                 Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
256             }
257         }
258     }

```

Image 2.2.5.4 Database Connection Movie Request Exist

```

260     public static void deleteMovieOrRequest(String s, int idx) {
261         Connection myConn = null;
262         try {
263             myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
264             Statement myStmt = myConn.createStatement();
265             String insert;
266             if (idx == 1) {
267                 insert = "DELETE FROM mydatabase.movieDetails WHERE name = '" + s + "'";
268             } else {
269                 insert = "DELETE FROM mydatabase.movieRequest WHERE moviename = '" + s + "'";
270             }
271             System.out.println(insert);
272             myStmt.executeUpdate(insert);
273             myConn.close();
274         } catch (SQLException exc) {
275             System.out.println("Nothing found");
276         } finally {
277             try {
278                 myConn.close();
279             } catch (SQLException ex) {
280                 Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
281             }
282         }
283     }

```

Image 2.2.5.5 Database Connection Delete Movie or Request Movie

```

320
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348

    public static String requestedMovie() {
        Connection myConn = null;
        try {
            myConn = DriverManager.getConnection("jdbc:mysql://localhost:3306/myDatabase", "root", "");
            Statement myStmt = myConn.createStatement();
            String insert = "SELECT * FROM mydatabase.movieRequest";
            ResultSet myRs = myStmt.executeQuery(insert);
            String cur = "";
            boolean add = false;
            while (myRs.next()) {
                if (add) {
                    cur += ",";
                }
                cur += myRs.getString("moviename");
                add = true;
            }
            myConn.close();
            return cur;
        } catch (SQLException exc) {
            System.out.println("Nothing found");
        } finally {
            try {
                myConn.close();
            } catch (SQLException ex) {
                Logger.getLogger(database.class.getName()).log(Level.SEVERE, null, ex);
            }
        }
        return "";
    }

```

Image 2.2.5.6 Database Connection Get Show Requested Movie



BAB III

OBJECT ORIENTED PROGRAMMING PILLARS

3.1 ENCAPSULATION

Encapsulation promotes data protection by bundling data (attributes) and the methods that operate on that data within a single unit called a class. This concept ensures data integrity and controlled access, safeguarding the application's core functionality.

```
public class user {  
  
    private String username, password;  
  
    public user(String user, String pass) {  
        this.username = user;  
        this.password = pass;  
    }  
  
    public user() {  
        this.username = null;  
        this.password = null;  
    }  
}
```

Image 3.1.1 Encapsulation

In the provided code, there is a class named `user` that demonstrates the concept of encapsulation. The `username` and `password` variables are declared as `private`, which means they can only be accessed within the `user` class. The `toString()` method is an example of polymorphism, as it is overridden to provide a specific implementation for the `user` class.

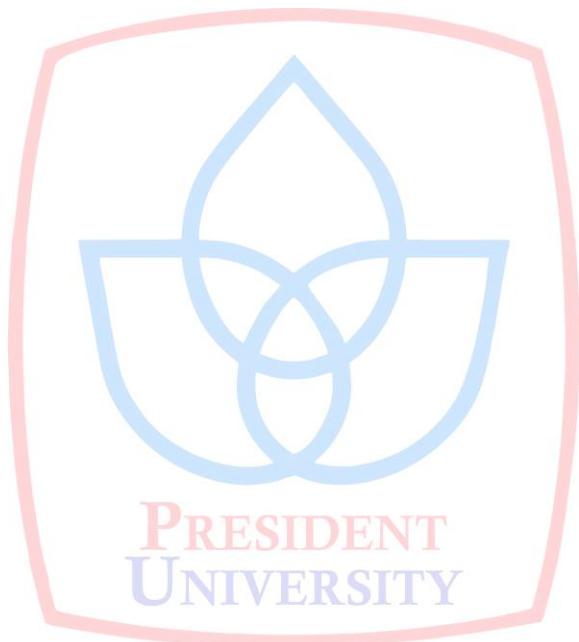
However, the code does not demonstrate the concepts of inheritance and abstraction.

Inheritance is the mechanism by which classes in Java, Python, and other OOP languages inherits the attribute of other classes. Abstraction means to only show the necessary details to the user and hide the irrelevant information.

In the `user` class, the `username` and `password` variables are encapsulated, meaning they are hidden from other classes and can only be accessed through the methods of the `user` class.

The `toString()` method is an example of polymorphism, as it is overridden to provide a specific implementation for the user class.

The code does not demonstrate the concept of inheritance, as there is no parent class from which the user class inherits attributes or methods. The code also does not demonstrate the concept of abstraction, as it does not hide irrelevant details from the user.



3.2 INHERITANCE

Inheritance allows us to create new classes (subclasses) that inherit properties and functionalities from existing classes (superclasses). This promotes code reusability and enables the creation of specialized classes that extend the functionalities of more general classes.

```
12  /**
13  *
14  * @author Abdurrahman Khairi
15  */
16  public class addAdmin extends javax.swing.JFrame {
17  public class addMovie extends javax.swing.JFrame {
18  public class adminForm extends javax.swing.JFrame {
19  public class adminLoginForm extends javax.swing.JFrame {
20  public class banUser extends javax.swing.JFrame {
21  public class deleteMovieForm extends javax.swing.JFrame {
22  public class editMovie extends javax.swing.JFrame {
23  /*
24  */
25  public class editMovieForm extends javax.swing.JFrame {
26  public class removeAdmin extends javax.swing.JFrame {
27  public class requestedMovie extends javax.swing.JFrame {
28  public class addReview extends javax.swing.JFrame {
29  public class contactUs extends javax.swing.JFrame {
30  public class HomePage extends javax.swing.JFrame {
31  public class normalUser extends user {
32  public class registeruserForm extends javax.swing.JFrame {
33  public class requestMovie extends javax.swing.JFrame {
34  public class searchByDirector extends javax.swing.JFrame {
35  public class searchByGenre extends javax.swing.JFrame {
36  public class searchByName extends javax.swing.JFrame {
37  public class searchByRating extends javax.swing.JFrame {
38  /*
39  */
40  public class searchMovie extends javax.swing.JFrame {
41  public class userForm extends javax.swing.JFrame {
42  public class adminOrNormal extends javax.swing.JFrame {
43  public class allMovie extends javax.swing.JFrame {
44  public class newShowMovie extends javax.swing.JFrame {
45  public class showMovie extends javax.swing.JFrame {
```

Image 3.2.1 Inheritance

Explanation Inheritance, for example in addAdmin :

Inheritance is a fundamental concept in object-oriented programming (OOP) that allows a class to inherit properties and behavior from a parent class. In the provided Java code, the addAdmin class extends the javax.swing.JFrame class, which is an example of inheritance.

The addAdmin class is the child class, and JFrame is the parent class. By extending JFrame, the addAdmin class automatically inherits all the properties and behavior of JFrame, such as the ability to create a window, set its size and title, and handle events. This allows the addAdmin class to focus on its specific functionality, which is to add a new admin user to the system.

The addAdmin class has a constructor that takes no arguments, which calls the initComponents() method to initialize the user interface components and then sets the default close operation for the window using the setDefaultCloseOperation() method.

The setDefaultCloseOperation() method is inherited from JFrame, and it allows the addAdmin class to set the default close operation for the window without having to define its own implementation. This is an example of how the addAdmin class uses inheritance to inherit behavior from JFrame.

By extending JFrame, the addAdmin class automatically inherits many other properties and behavior, such as the ability to set the window size, location, and title, handle events, and more. This reduces the amount of code that needs to be written in the addAdmin class and makes it easier to maintain and extend.

3.3 POLYMORPHISM

Polymorphism refers to the ability of objects to respond differently to the same method call. This flexibility allows for creating generic methods that can handle various object types, enhancing code adaptability and maintainability.

```
public class user {  
    private String username, password;  
  
    public user(String user, String pass) {  
        this.username = user;  
        this.password = pass;  
    }  
  
    public user() {  
        this.username = null;  
        this.password = null;  
    }  
  
    @Override //  
    public String toString() {  
        return this.username + " " + this.password;  
    }  
}
```

Image 3.3.1 Polymorphism

`toString()` is a method inherited from the `Object` class, which is the superclass of all classes in Java. The `toString()` method is used to convert an object into a string representation.

By default, the `toString()` method will produce a string representation of the object that includes the class name and memory address. However, in this case, we want to change the string representation of the `user` object to a concatenation of `username` and `password`.

This is done by overriding the `toString()` method in the `user` class. The use of the `@Override` annotation indicates that we are overriding a method from the superclass.

The use of overriding in this case allows us to get a string representation that is more suitable for our needs. Additionally, by overriding the `toString()` method, we can avoid writing redundant code to print the attributes of the `user` object.

3.4 ABSTRACTION

Abstraction is one of the fundamental concepts in object-oriented programming (OOP) that allows us to focus on the essential features of an object while ignoring the irrelevant details. In Java, abstraction can be achieved through abstract classes and interfaces.

An abstract class is a class that cannot be instantiated, but it can be subclassed. An abstract class can contain both abstract and concrete methods. Abstract methods are methods without a body, and they are meant to be overridden by the subclasses.



```
18 public class normalUser extends user {
19
20     protected static boolean normalCheck(String name, String pwd) {
21         File f = new File("D:\\Kuliahan\\Ms. Deffa Rahadian\\Project Movie Database\\MovieDatabase\\txt\\src/normalUser.txt");
22         FileReader fr = null;
23         BufferedReader br = null;
24         try {
25             fr = new FileReader(f);
26             br = new BufferedReader(fr);
27             String line;
28             while ((line = br.readLine()) != null) {
29                 String Temp[] = line.split(",");
30                 String userName = Temp[0];
31                 String password = Temp[1];
32                 if (userName.equals(name) && password.equals(pwd)) {
33                     return true;
34                 }
35             }
36         } catch (FileNotFoundException ex) {
37             Logger.getLogger(adminUser.class.getName()).log(Level.SEVERE, null, ex);
38         } catch (IOException ex) {
39             Logger.getLogger(adminUser.class.getName()).log(Level.SEVERE, null, ex);
40         } finally {
41             try {
42                 br.close();
43             } catch (IOException ex) {
44                 Logger.getLogger(adminUser.class.getName()).log(Level.SEVERE, null, ex);
45             }
46         }
47     }
48 }
```

Image 3.4.1 Abstraction

The Abstraction is present in the `normalUser` class, which is a subclass of the `user` class. The `normalUser` class provides a specific implementation of the `user` class for normal users, while abstracting away the details of how the user data is stored.

The abstraction is present in the following methods of the `normalUser` class:

`normalCheck()` method (lines 14-42): This method takes a username and password as parameters and checks whether a normal user with the given username and password exists in the system. It does this by reading the `normalUser.txt` file, which contains a list of normal users and their passwords. If a matching user is found, the method returns true; otherwise, it returns false.

BAB IV

SYSTEM DESIGN

4.1 MAIN APPLICATION

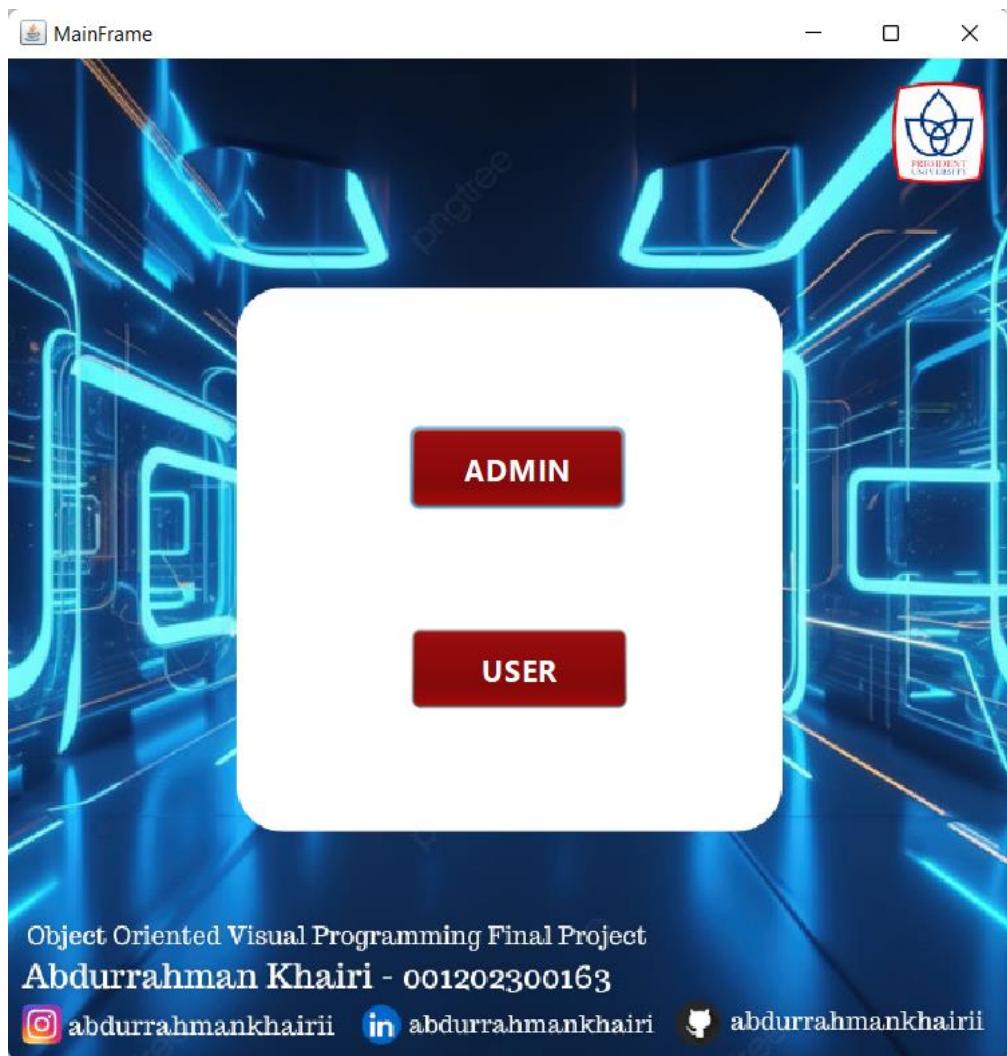


Image 4.1.1 Main Display Application

4.2 ADMIN

4.2.1 adminLogin

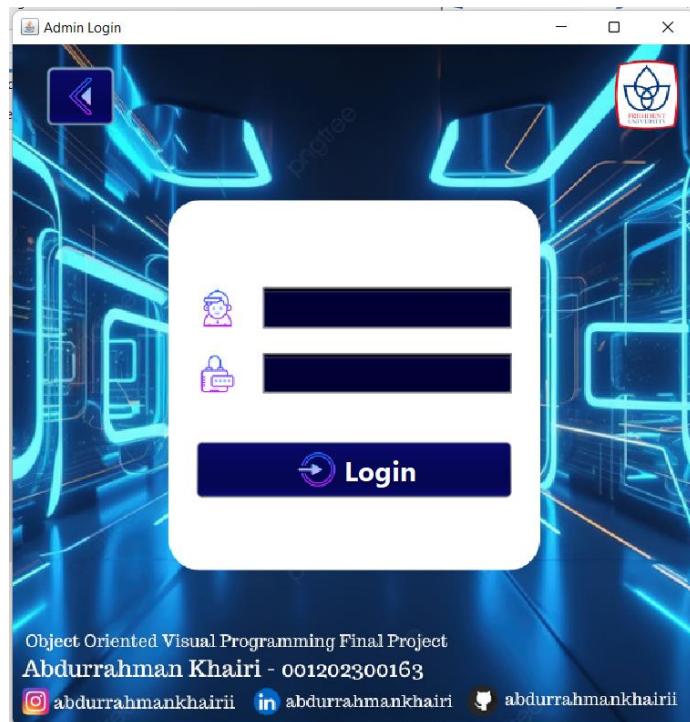


Image 4.2.1.1 Image View Admin Login Form

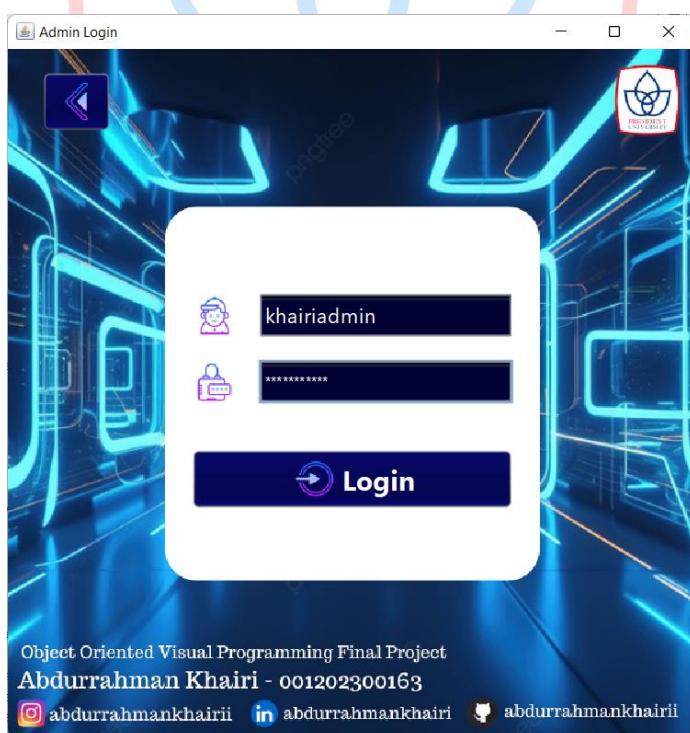


Image 4.2.1.2 Input Admin Form

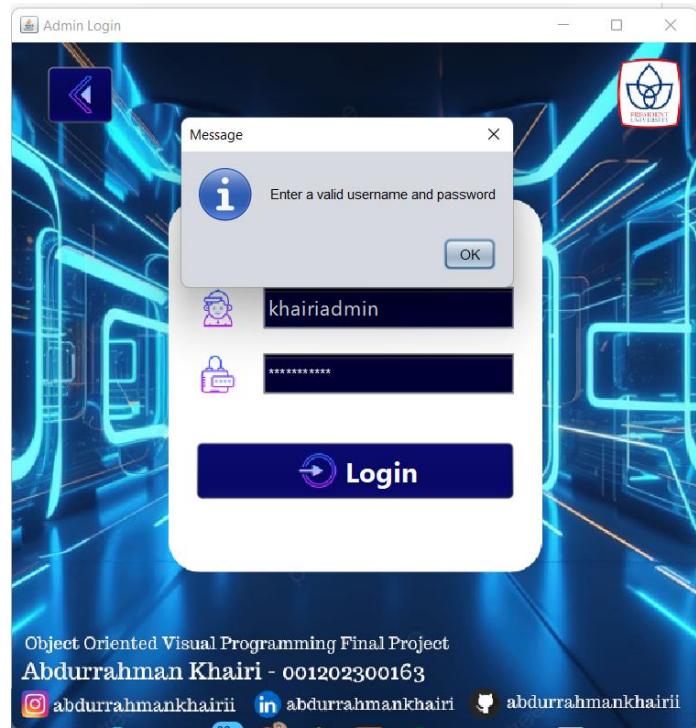
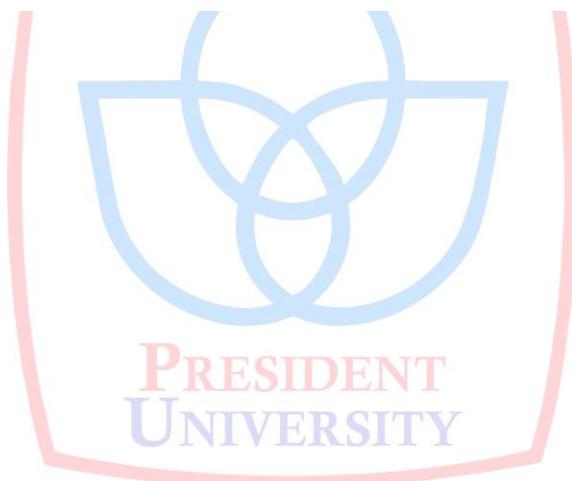


Image 4.2.1.3 Wrong Login Admin Form



4.2.2 adminForm

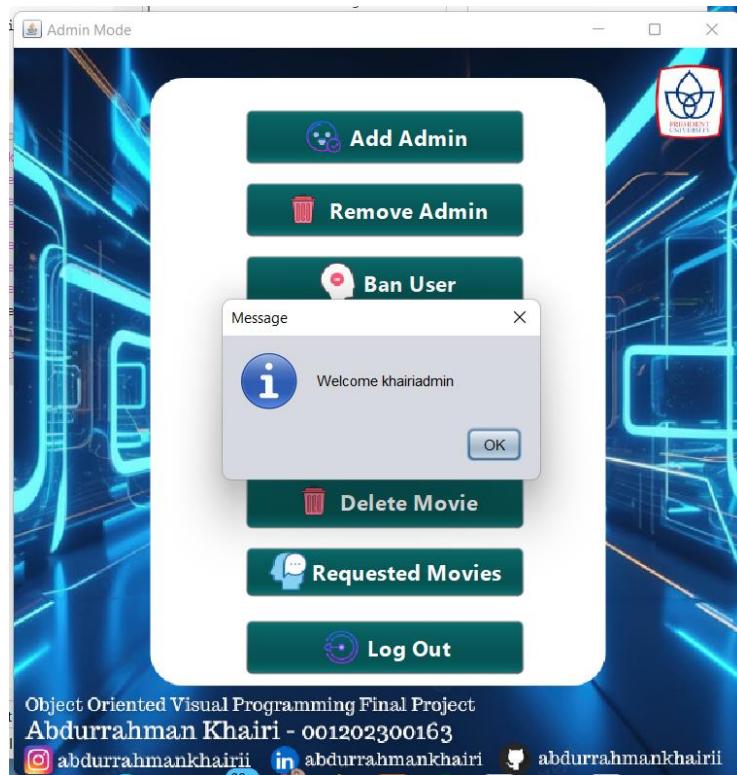


Image 4.2.2.1 Image Login Admin Form

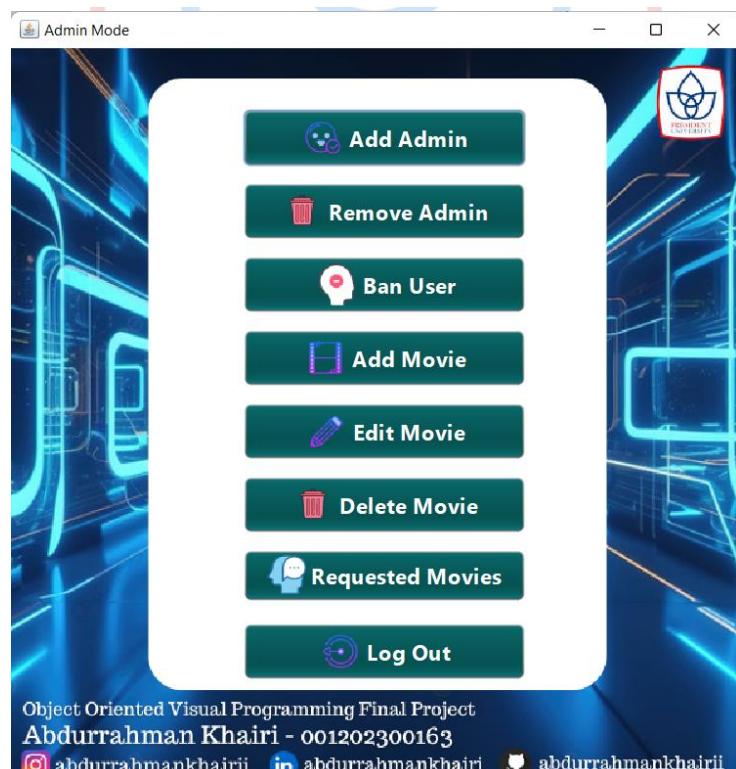


Image 4.2.2.2 View Admin Form

4.2.3 addAdmin

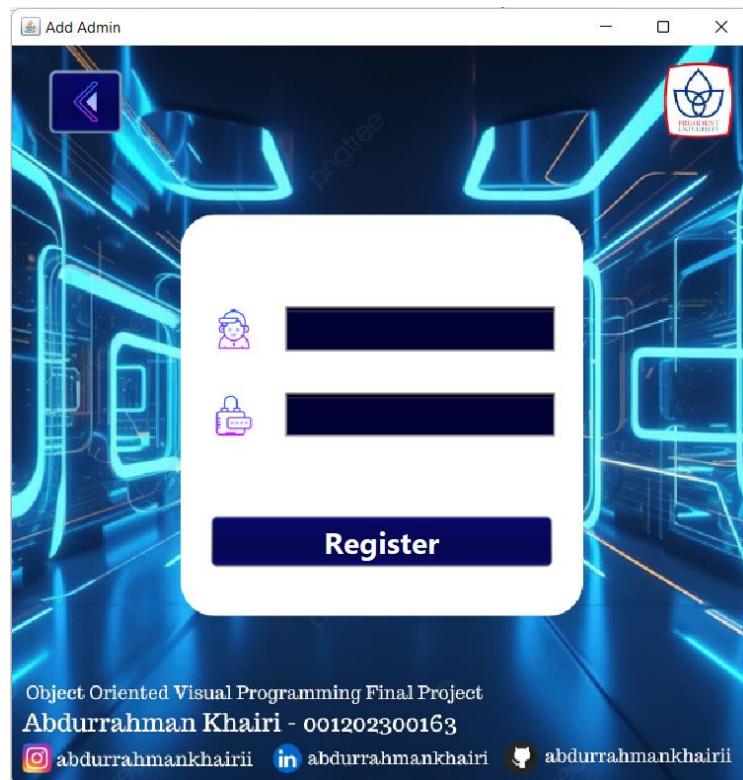


Image 4.2.3.1 Form Add Admin

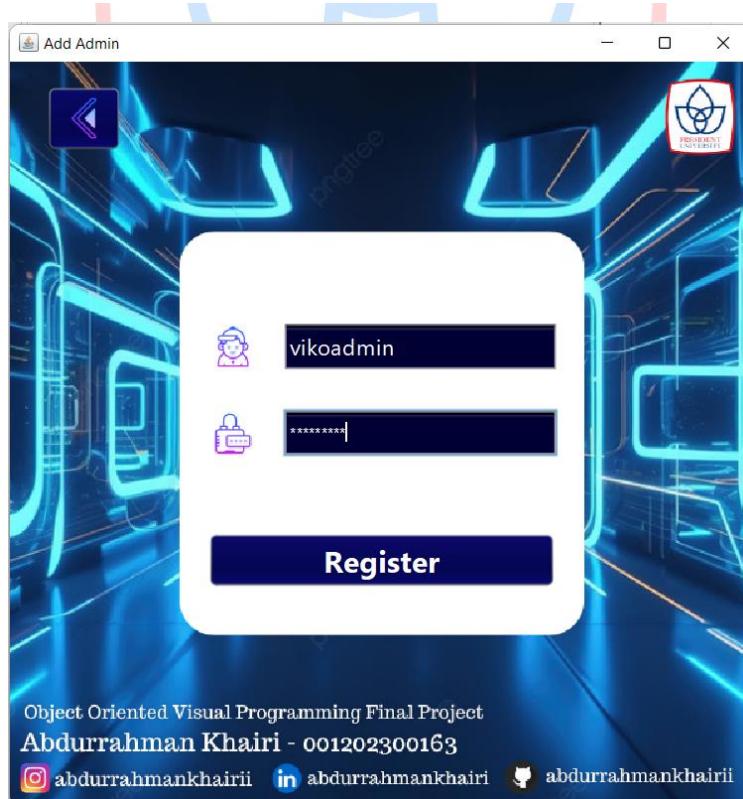


Image 4.2.3.2 Input Add Admin Form

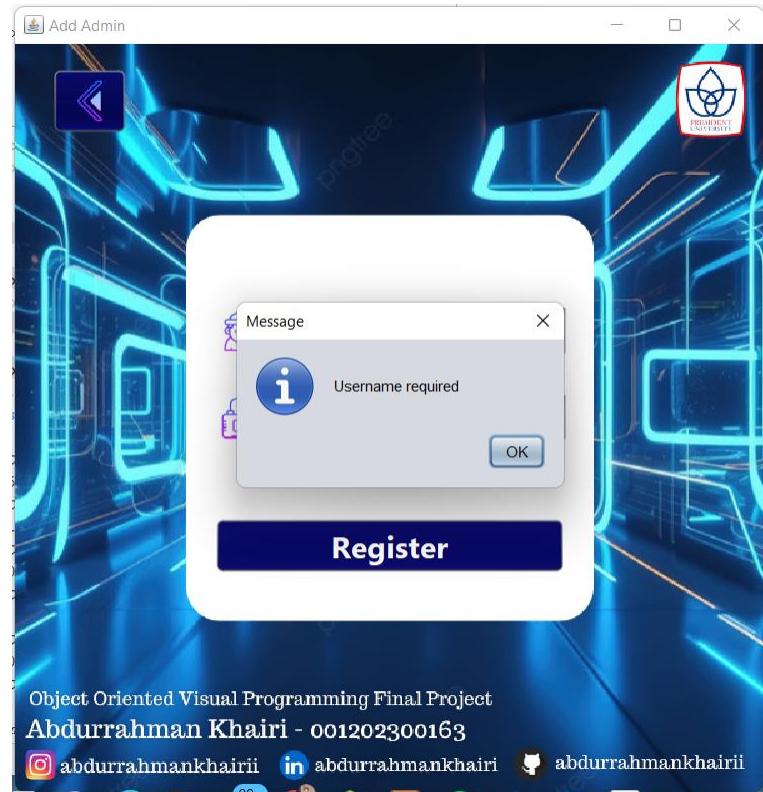


Image 4.2.3.3 Username and Password Required

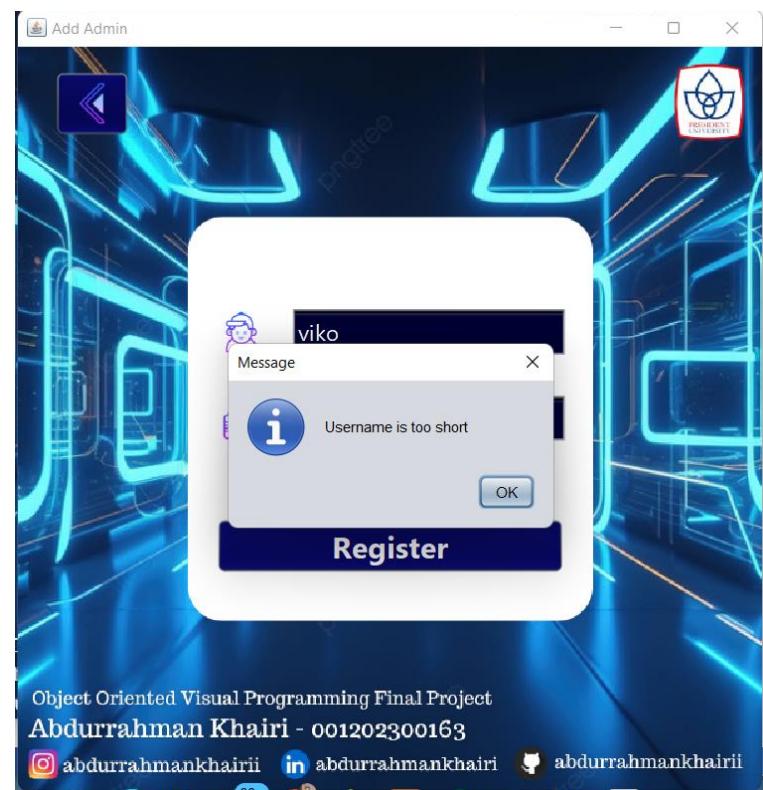


Image 4.2.3.4 Username and Password Too Short

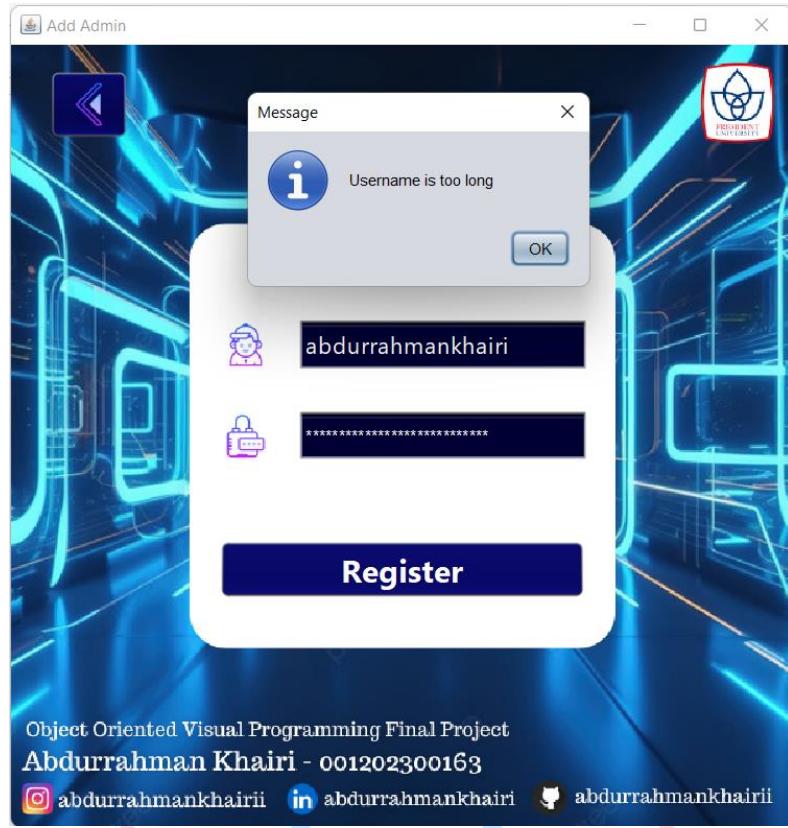


Image 4.2.3.5 Username and Password Too Long

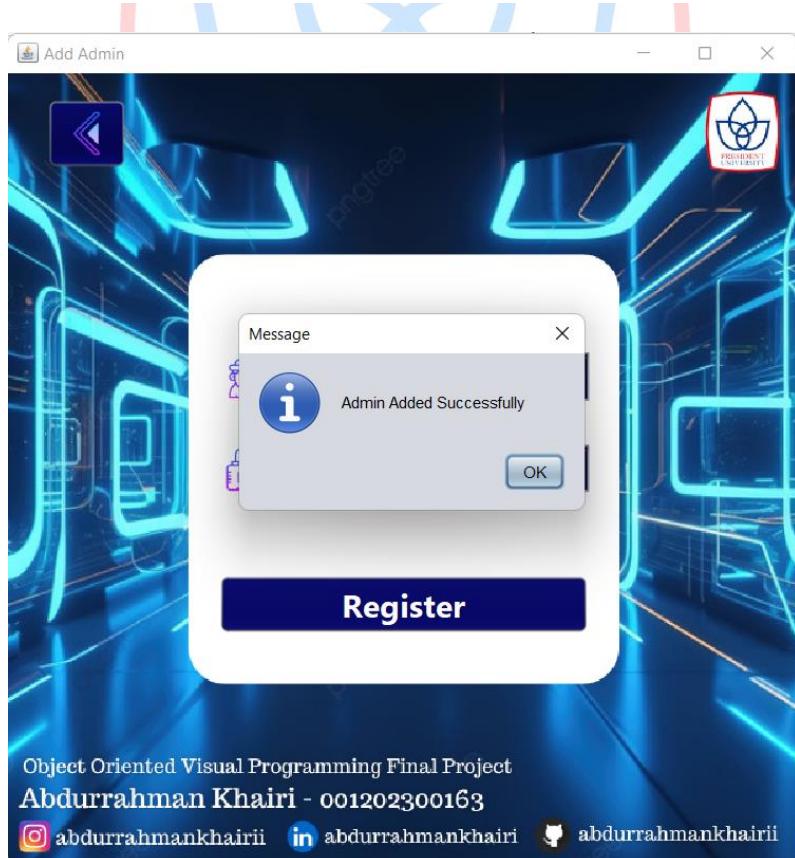


Image 4.2.3.6 Admin Added Successfully

4.2.4 RemoveAdmin

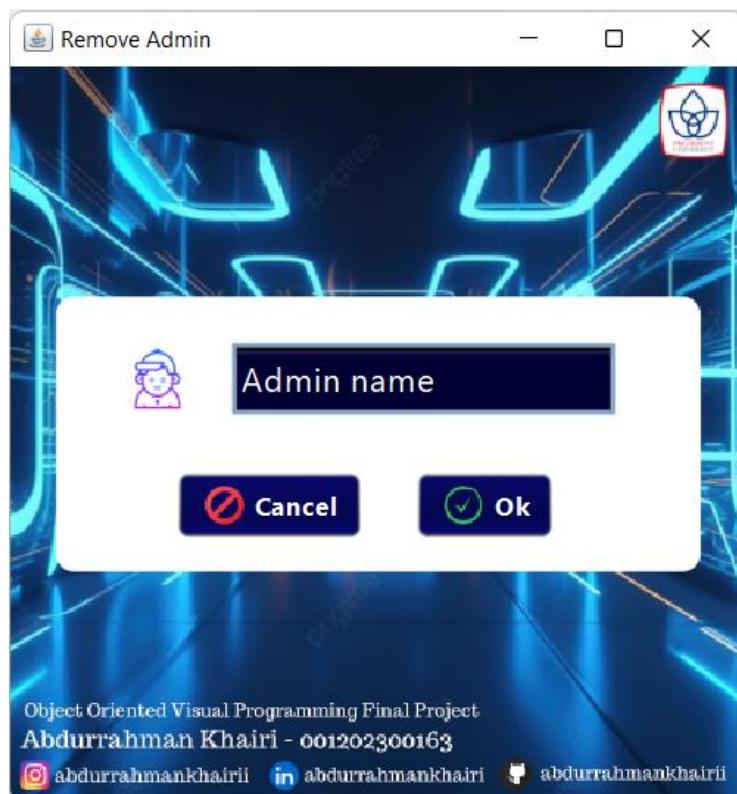


Image 4.2.4.1 View Remove Admin Form

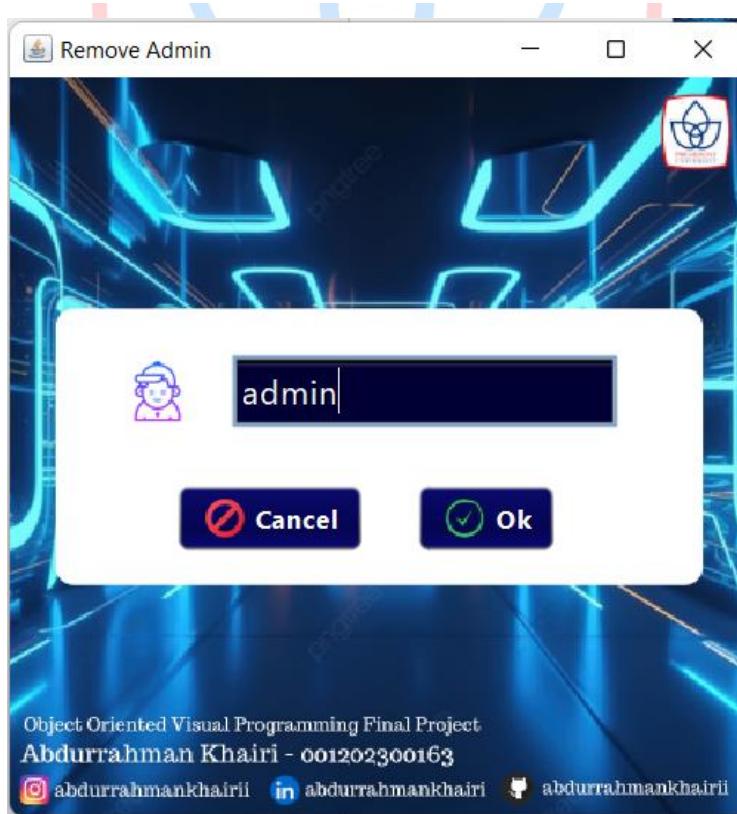


Image 4.2.4.2 Input Remove Admin Form

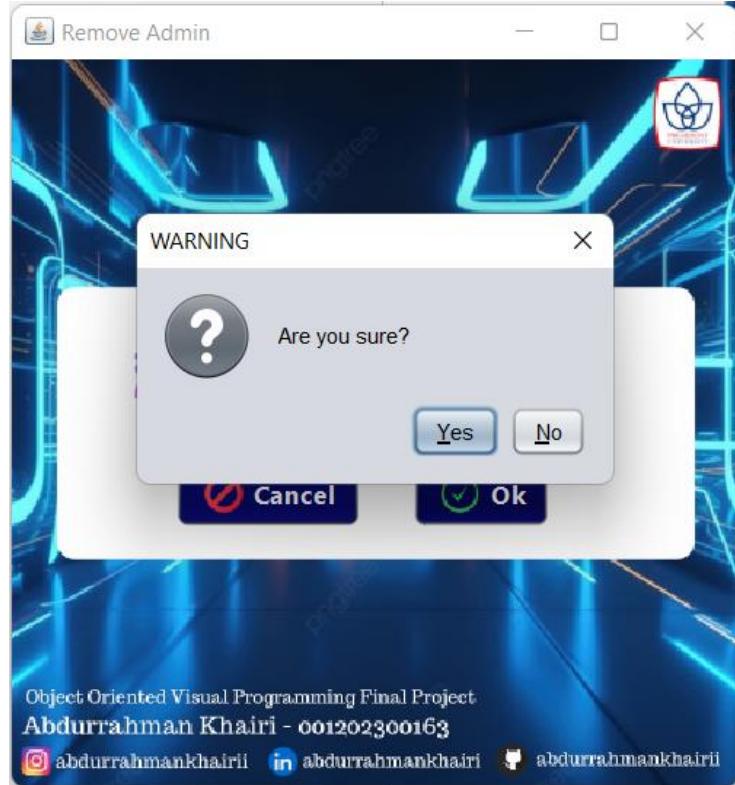


Image 4.2.4.3 Cancel Remove Admin

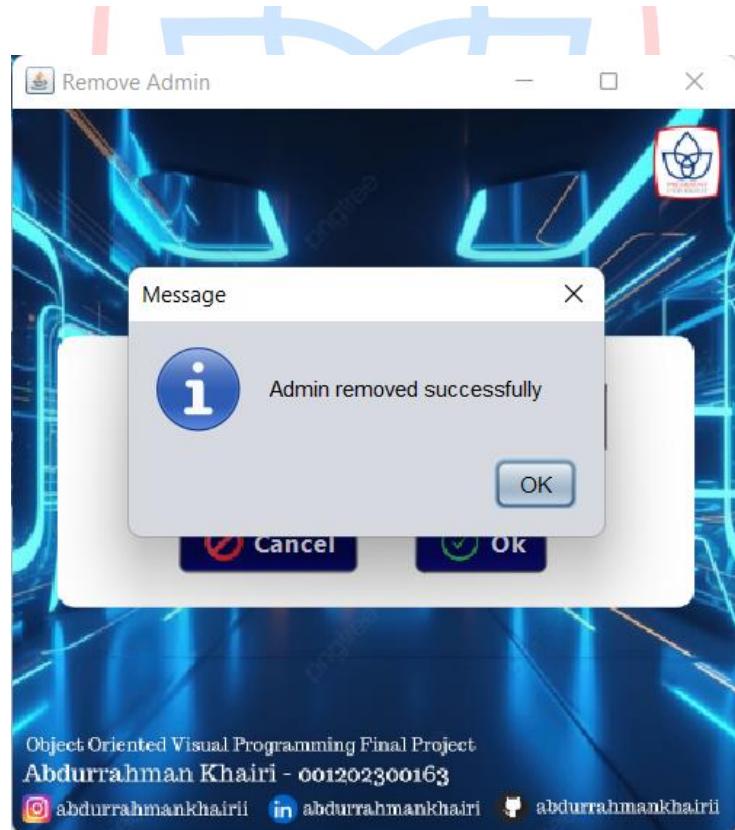


Image 4.2.4.4 Admin Removed Successfully

4.2.5 BanUser

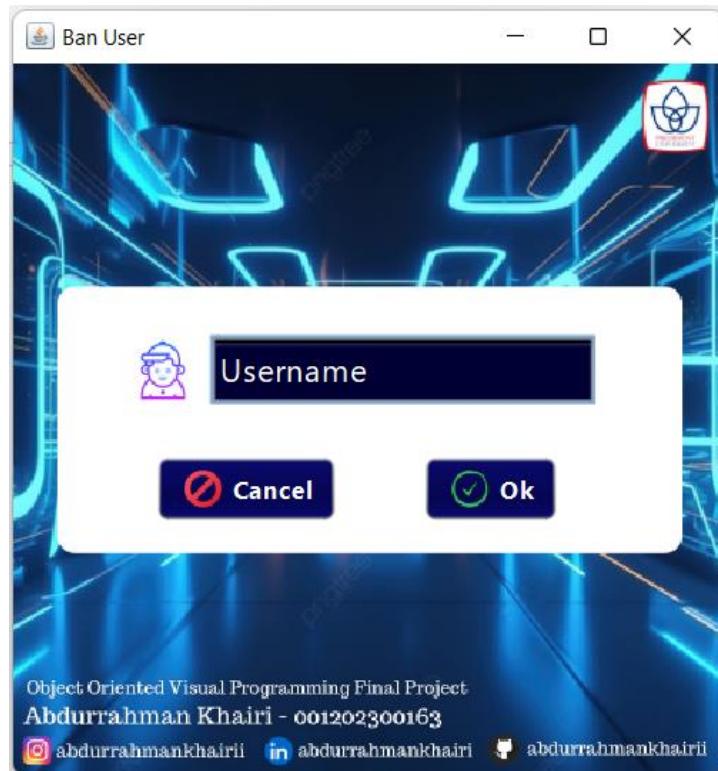


Image 4.2.5.2 View Ban User Form

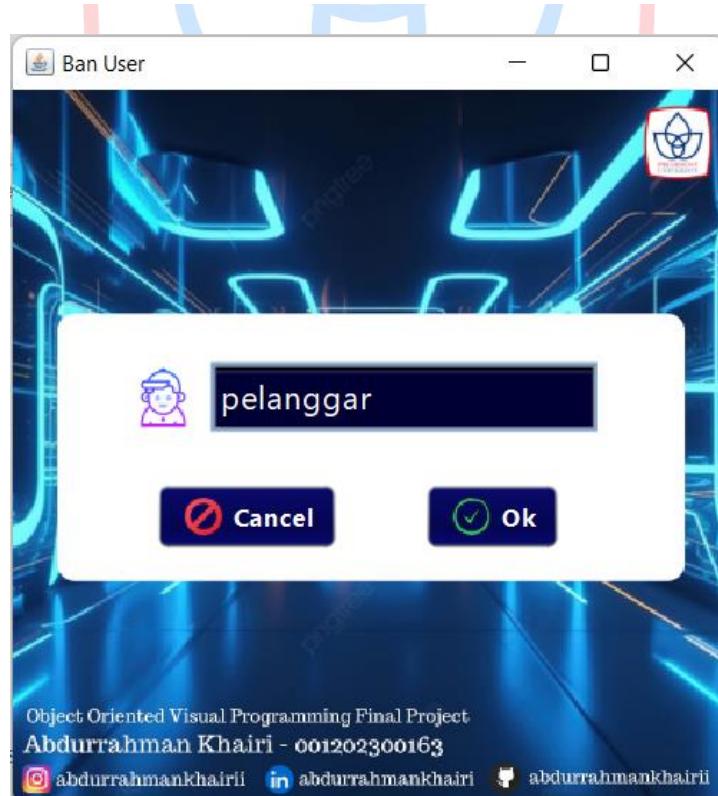


Image 4.2.5.3 Input Ban User Form

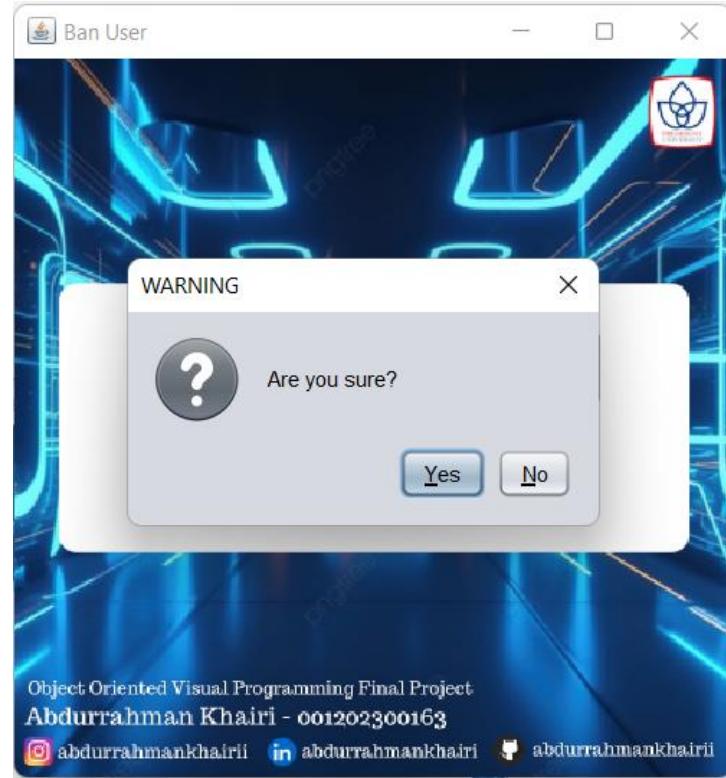


Image 4.2.5.4 Cancel Ban User Form

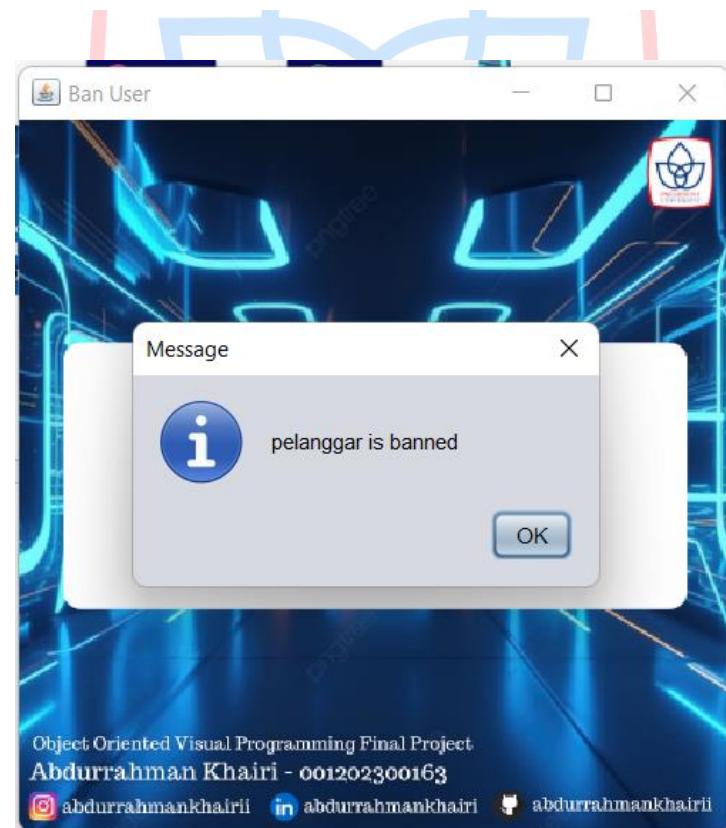


Image 4.2.5.5 Banned User

4.2.6 addMovie

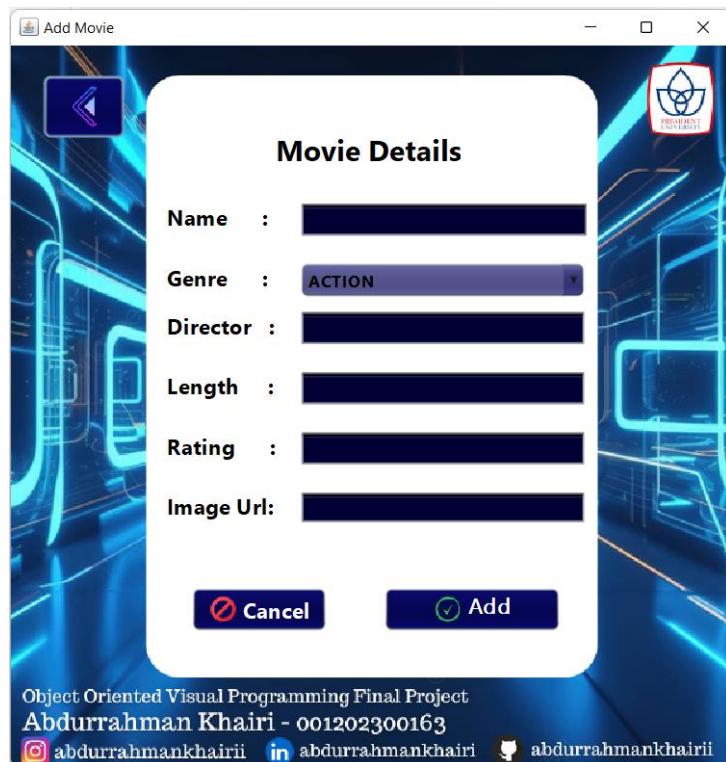


Image 4.2.6.1 View Add Movie Form

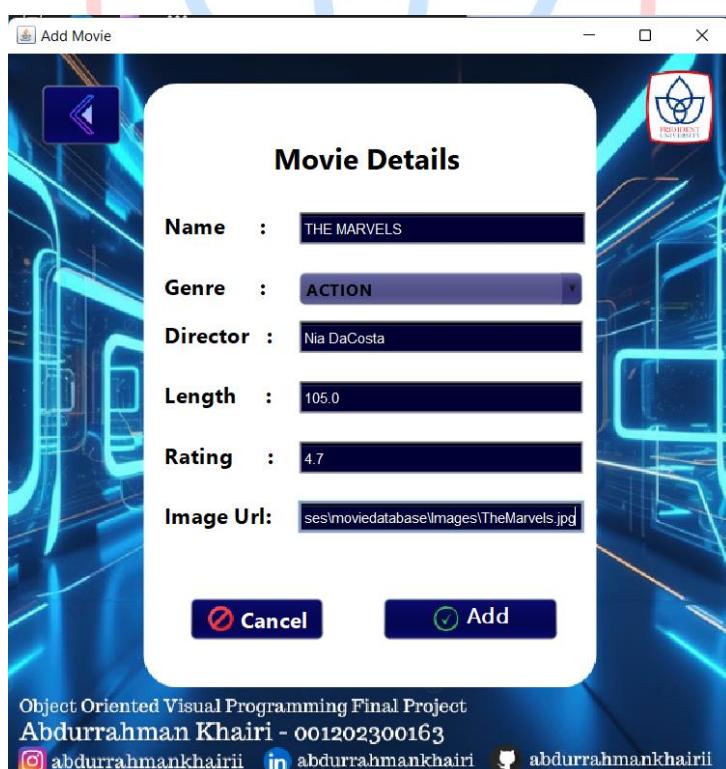


Image 4.2.6.2 Input Add Movie Form

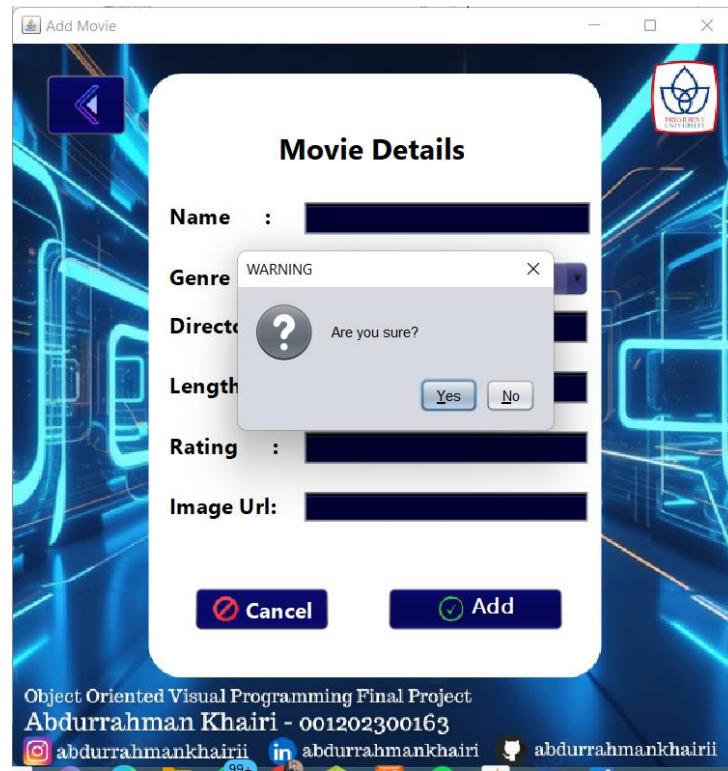


Image 4.2.6.3 Cancel Add View Form

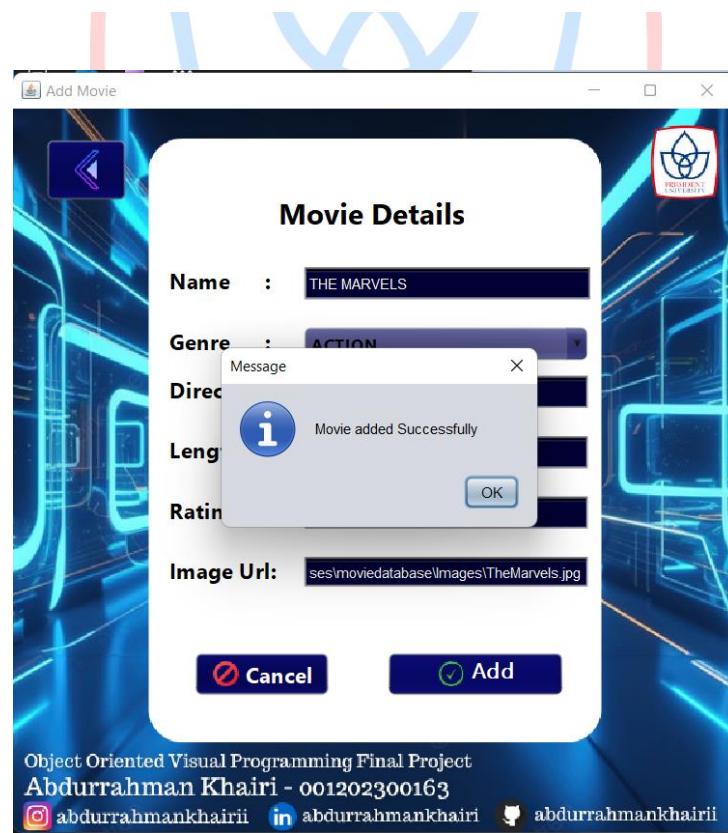


Image 4.2.6.4 Movie Added Successfully

4.2.7 editMovie

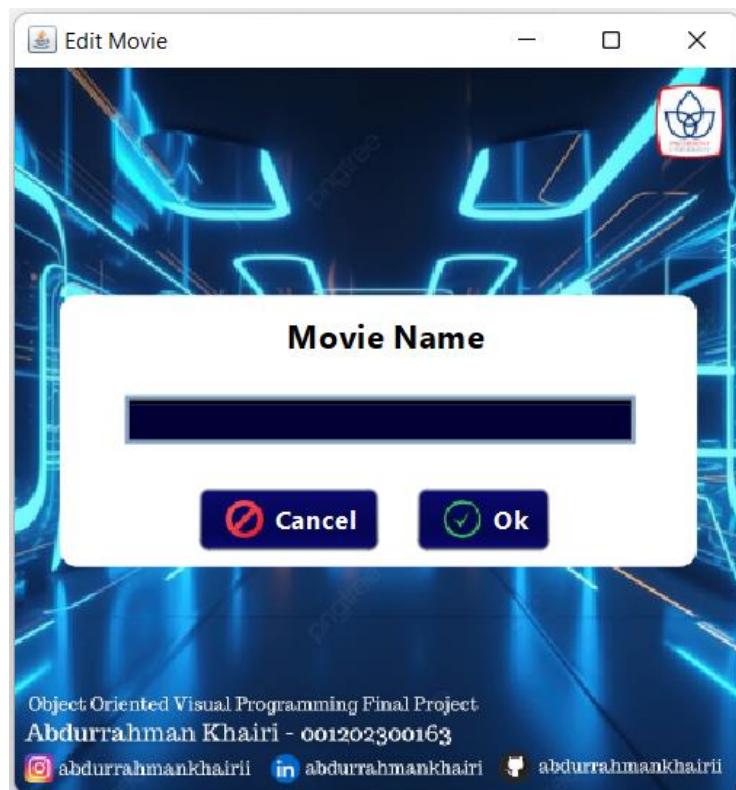


Image 4.2.7.1 View Edit Movie Form

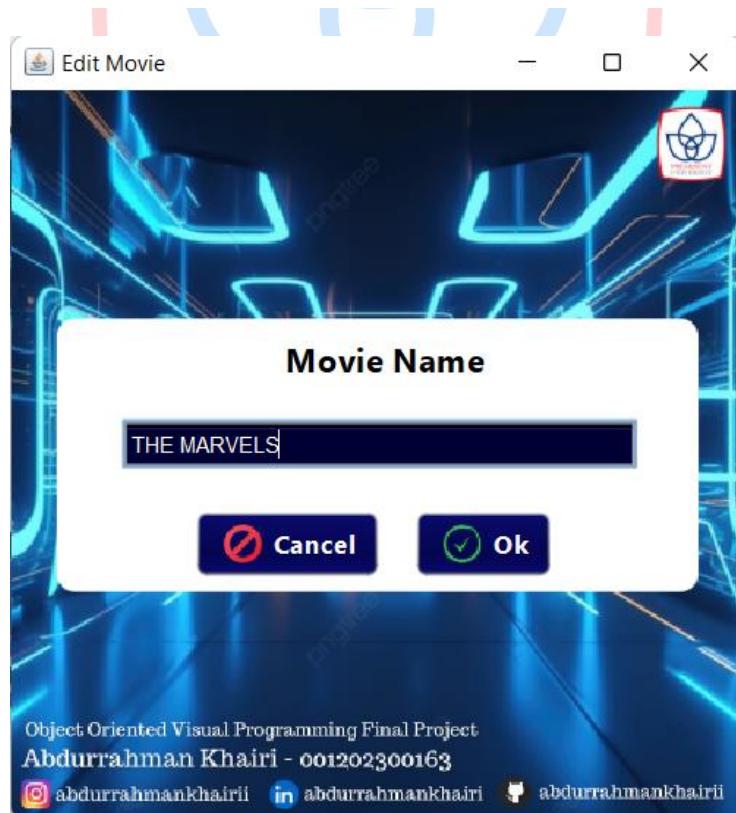


Image 4.2.7.2 Input Edit Movie Form

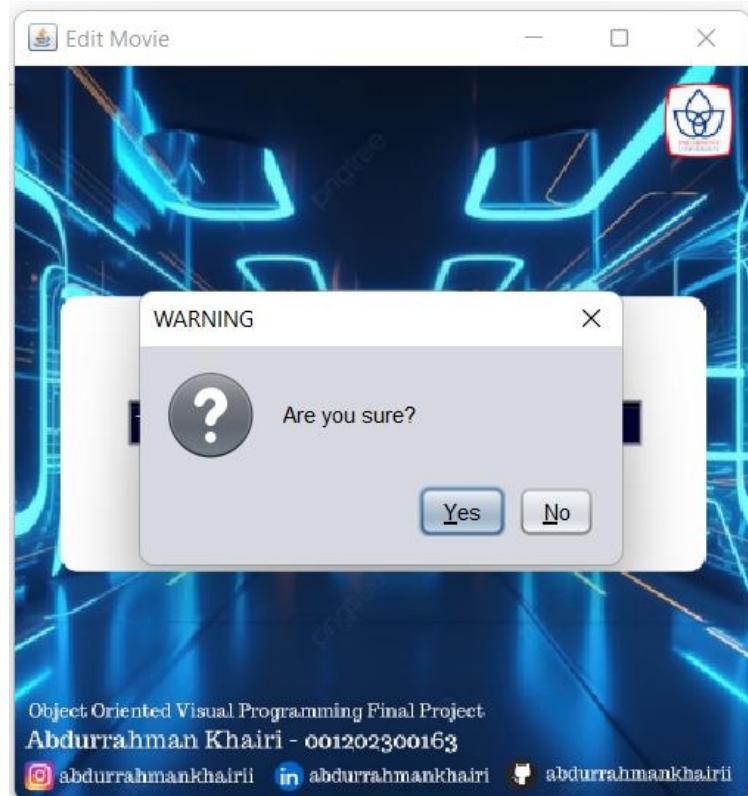


Image 4.2.7.3 Cancel Edit Movie Form

A screenshot of a mobile application titled "Update Movie". The main screen shows a blue abstract background with a red logo in the top right corner. A modal dialog box titled "Movie Details" is centered, containing fields for Name (THE MARVELS), Genre (ACTION), Director (NIA DACOSTA), Length (105.0), Rating (4.7), and Image Url (issesmovedatabaseimagesTheMarvels.jpg). Below the fields is a blue "Update" button with a checkmark icon. At the bottom of the screen, there is footer text: "Object Oriented Visual Programming Final Project" and "Abdurrahman Khairi - 001202300163", followed by social media links for Instagram, LinkedIn, and Twitter.

Image 4.2.7.4 View Update Movie Form

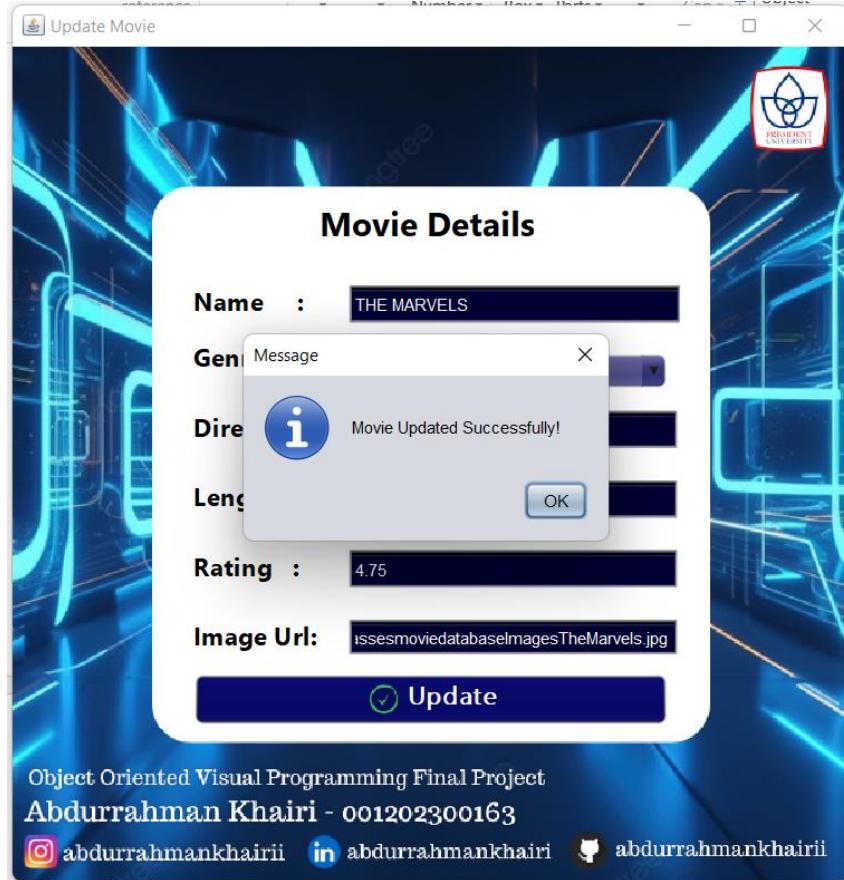


Image 4.2.7.5 Movie Updated Successfully



4.2.8 deleteMovie

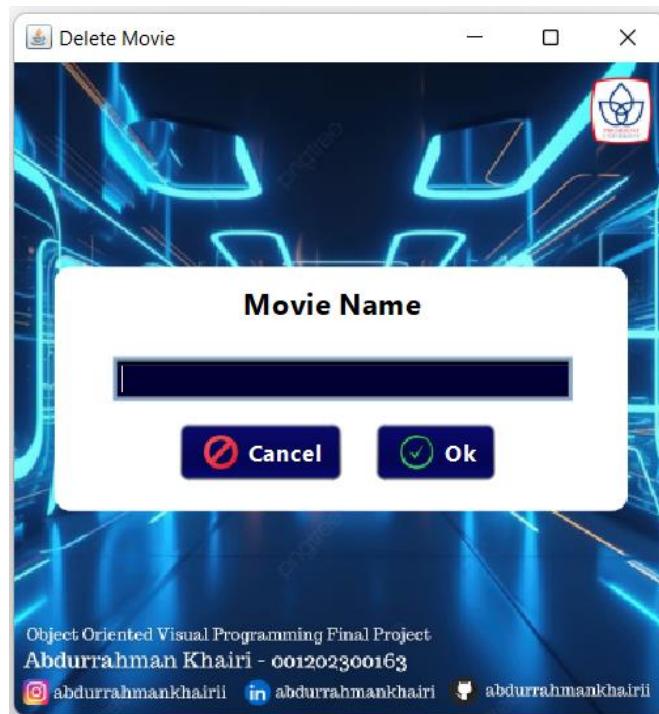


Image 4.2.8.1 View Delete Movie Form

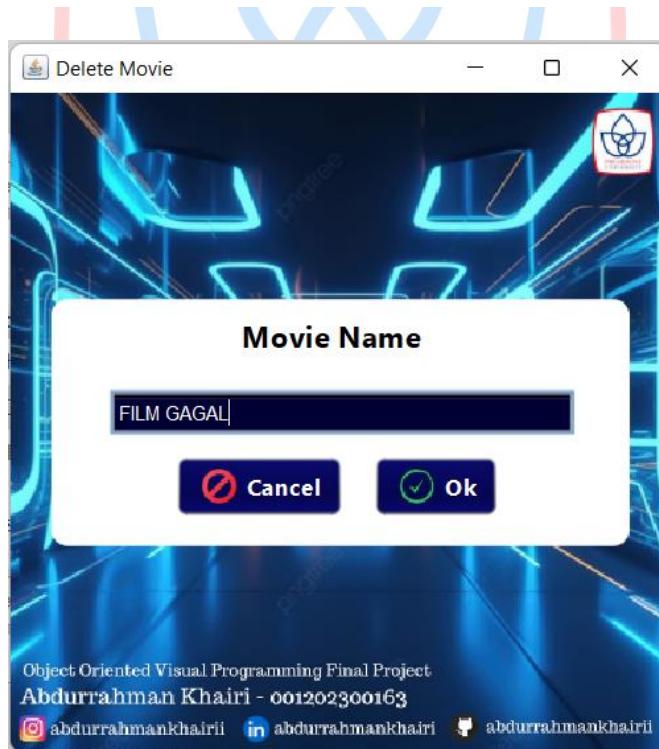


Image 4.2.8.2 Input Delete Movie Form

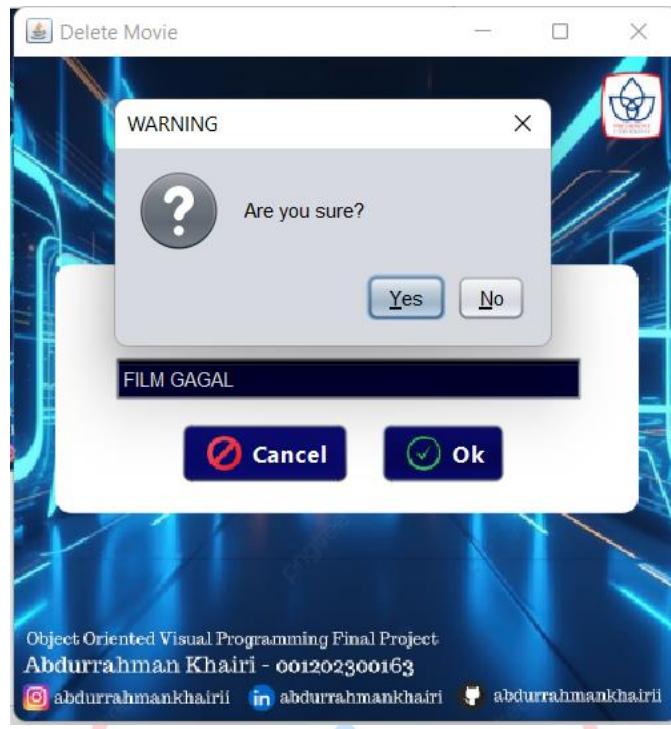


Image 4.2.8.3 Cancel Delete Movie Form

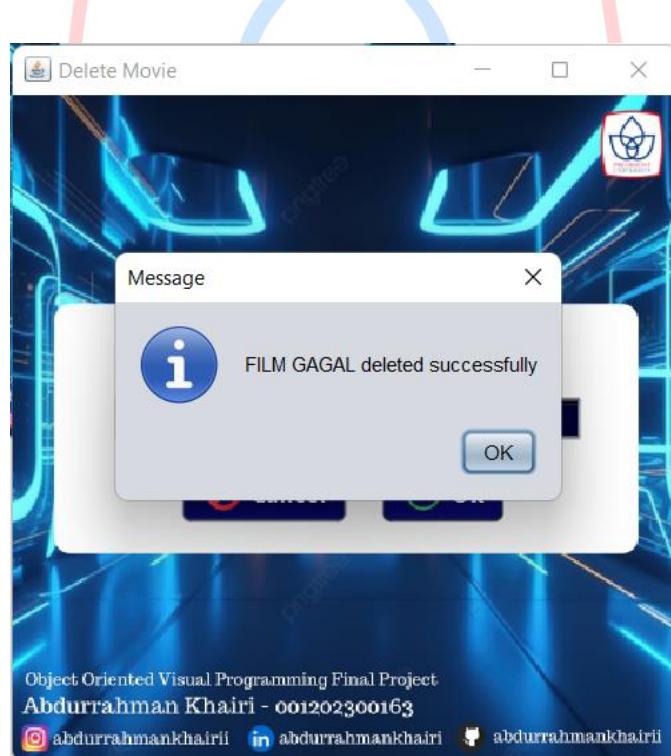


Image 4.2.8.4 Movie Deleted Successfully

4.2.9 requestedMovie

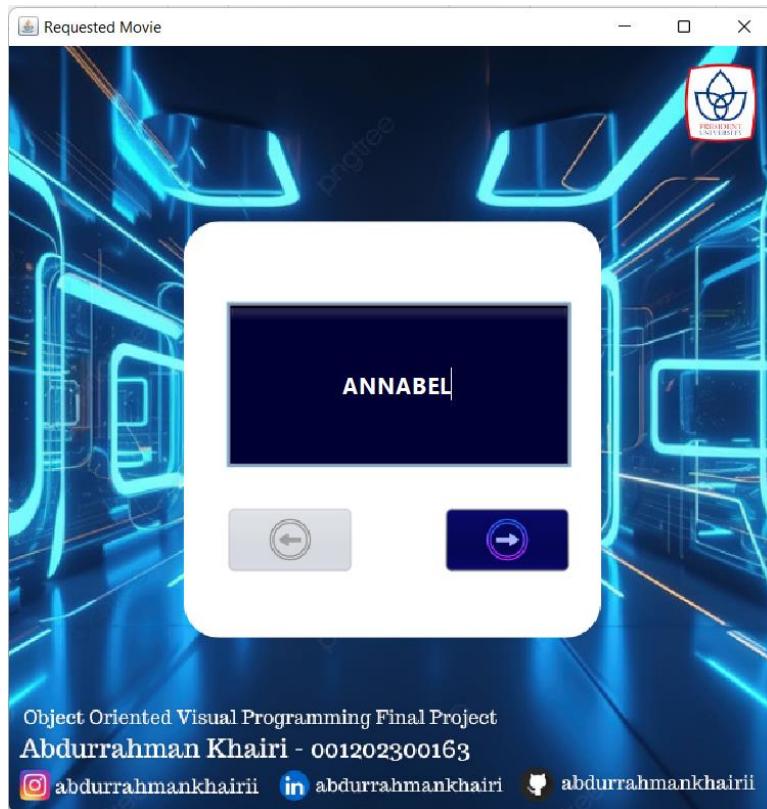


Image 4.2.9.1 View First Requested Movie

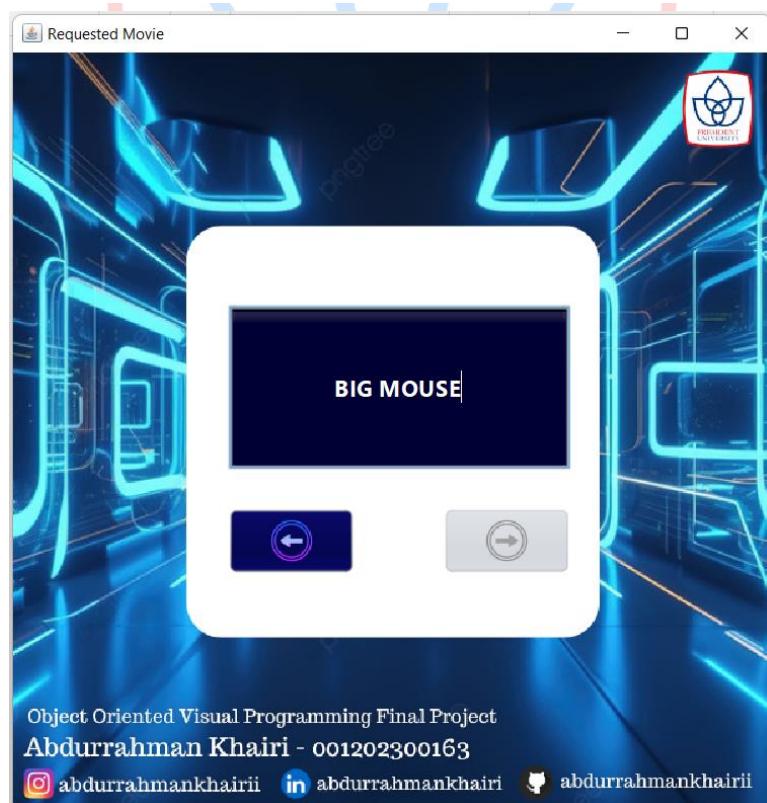


Image 4.2.9.2 View Last Request Movie

4.2.10 logOutAdmin

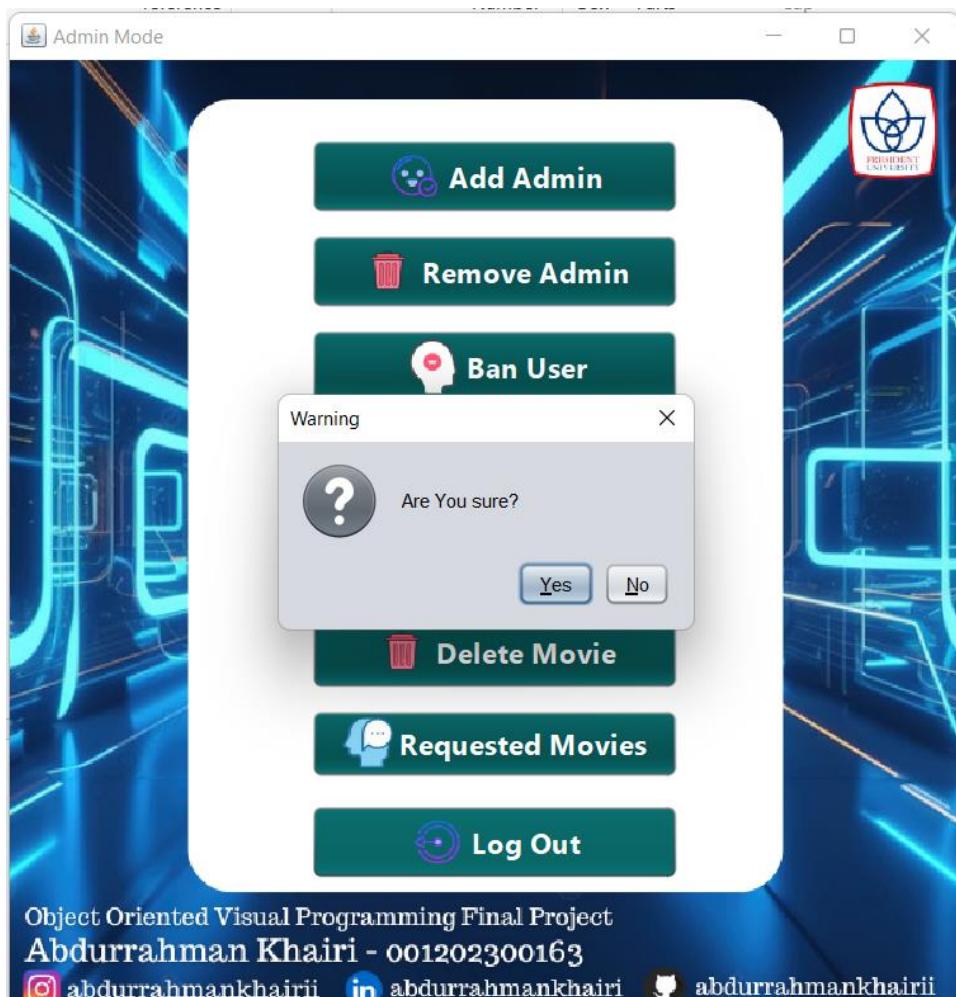


Image 4.2.10.1 LogOut Admin

4.3 USER

4.3.1 UserLogin

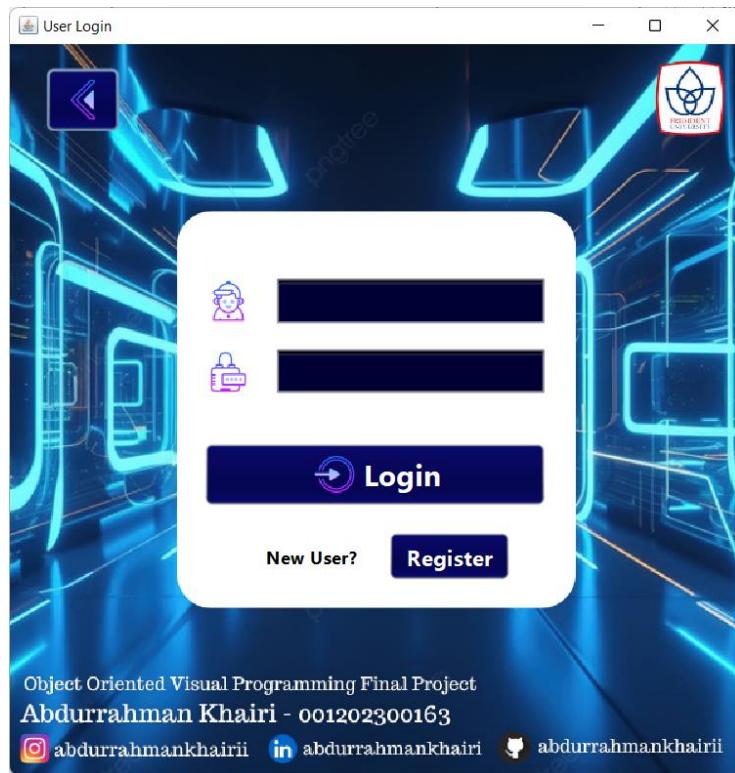


Image 4.3.1.1 View LogIn User Form

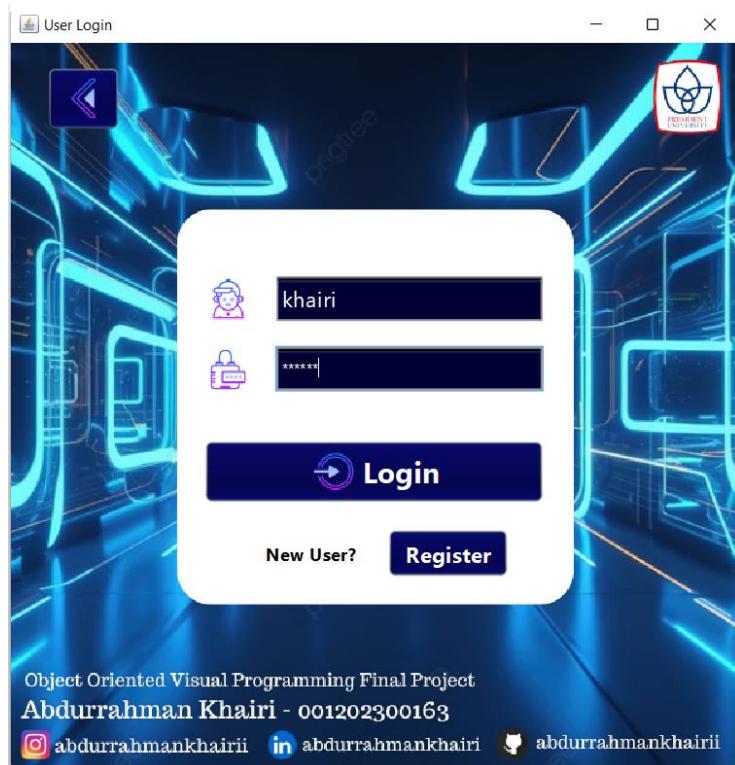


Image 4.3.1.2 Input Login User Form

4.3.2 RegisterUser

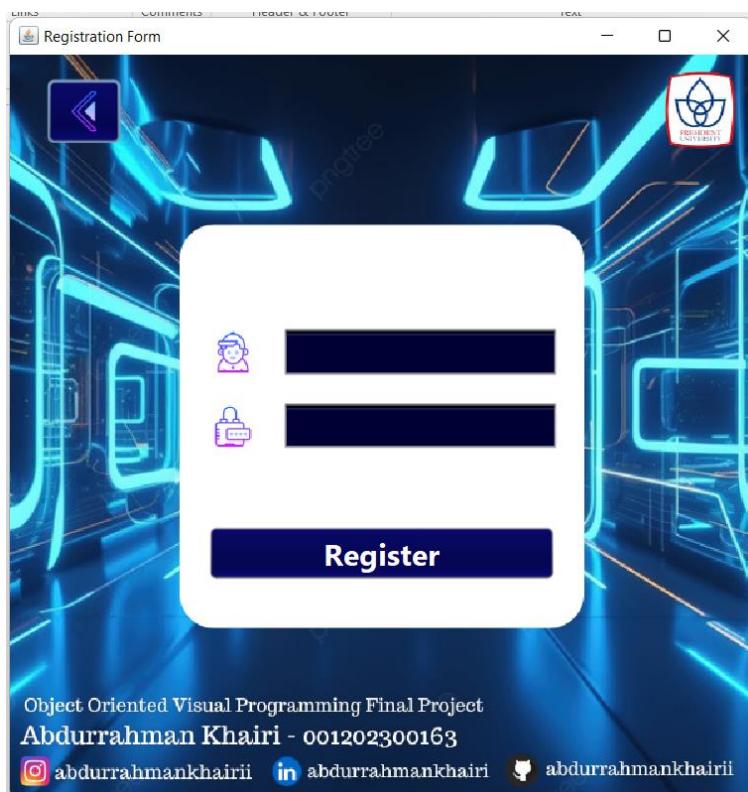


Image 4.3.2.1 View Registration User Form

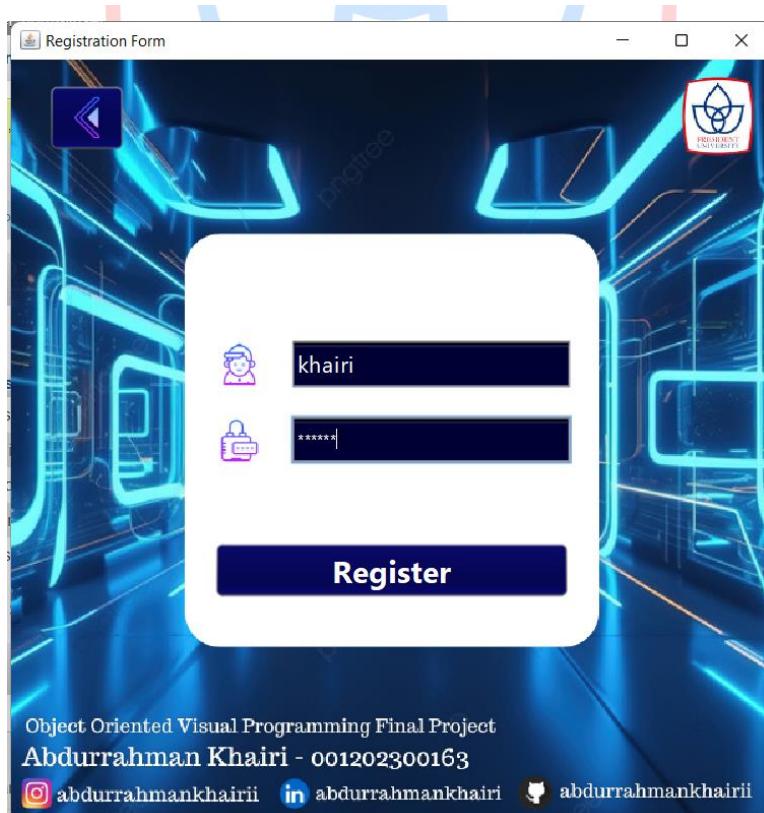


Image 4.3.2.2 Input Registration User Form

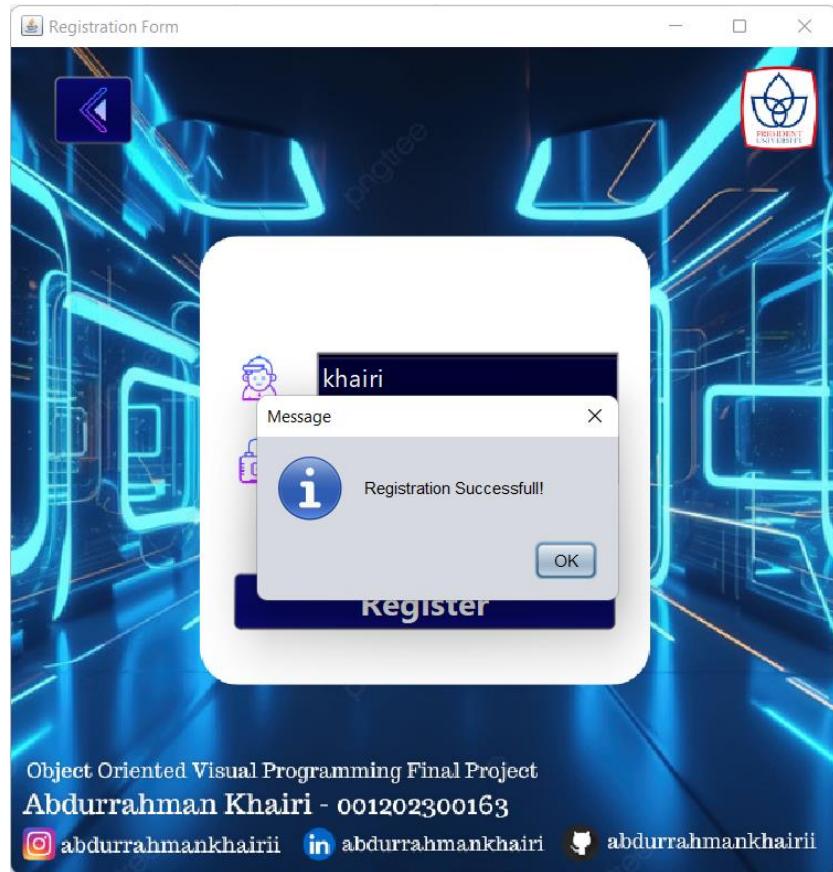


Image 4.3.2.3 Registration User Successfully



4.3.3 UserForm

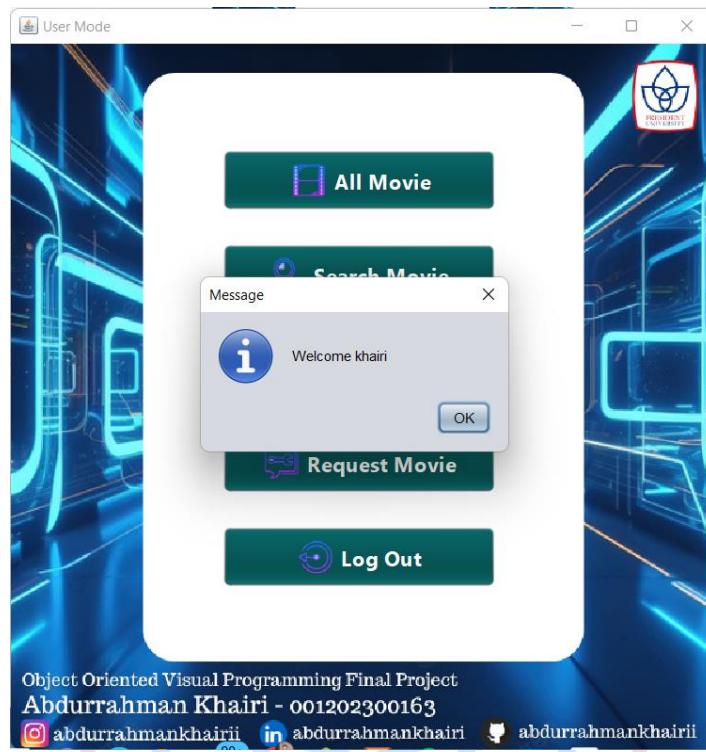


Image 4.3.3.1 LogIn User Form

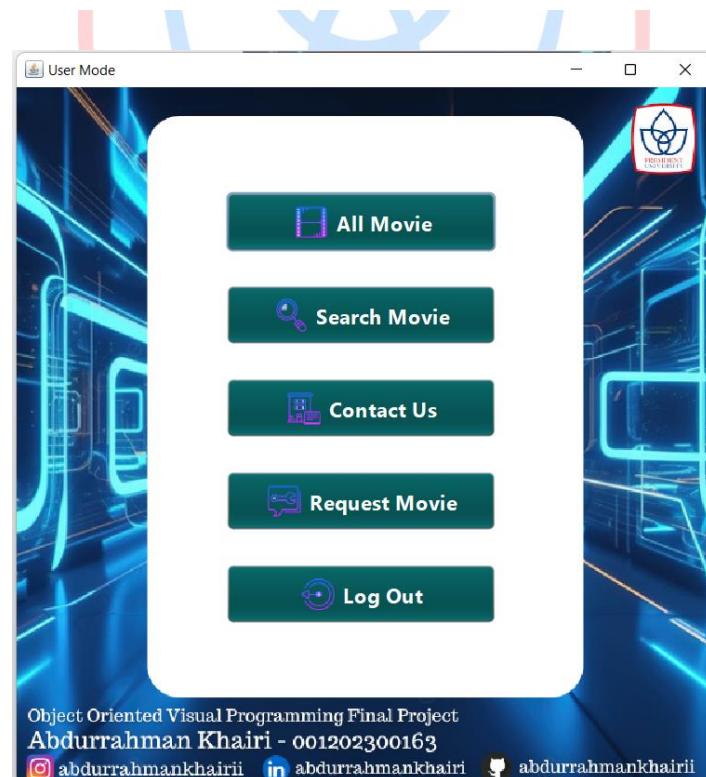


Image 4.3.3.2 View User Form

4.3.4 AllMovie

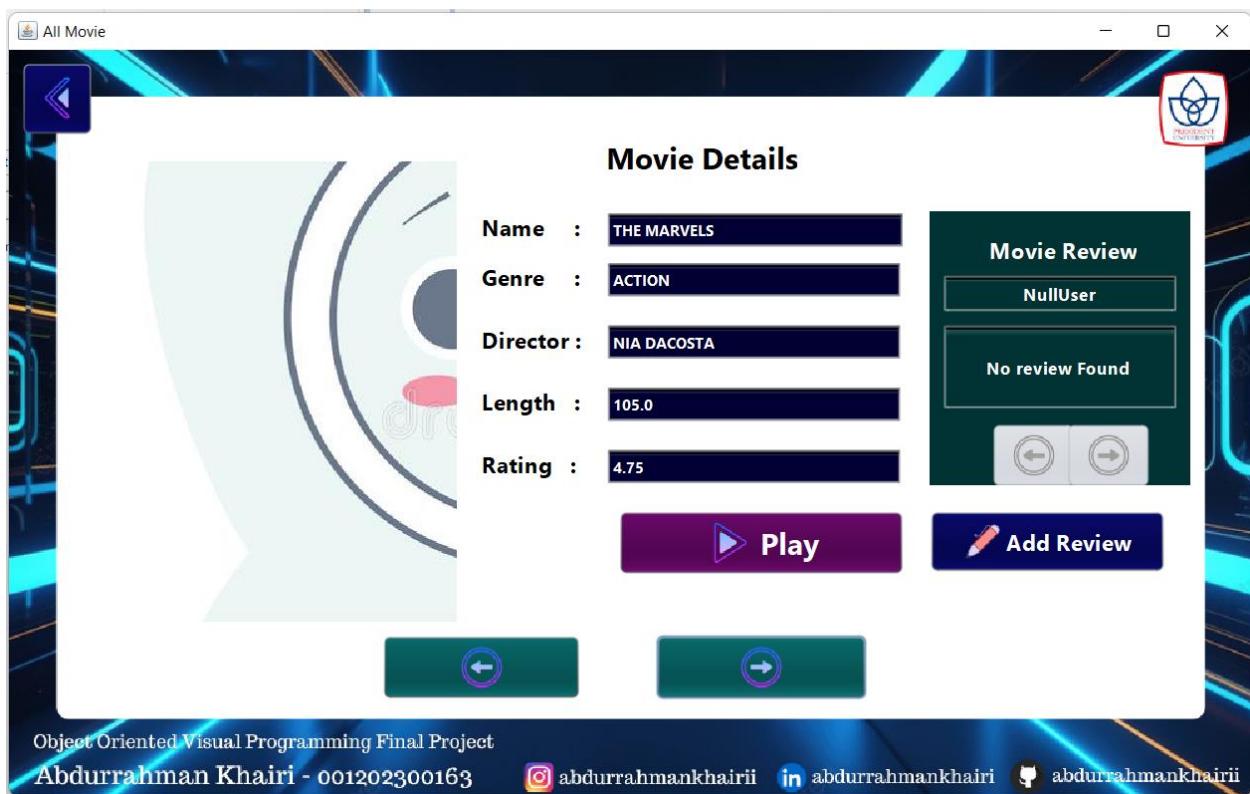


Image 4.3.4.1 View Display All Movie Details

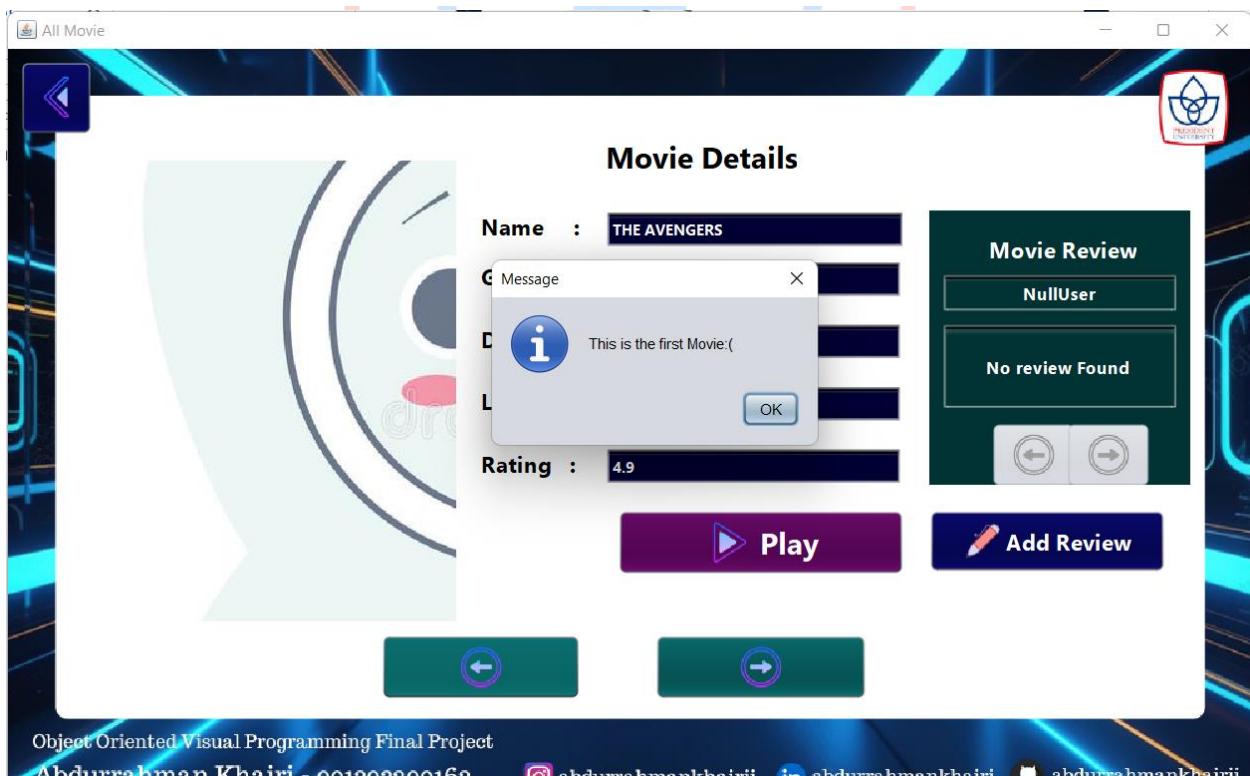


Image 4.3.4.2 View First Movie Details

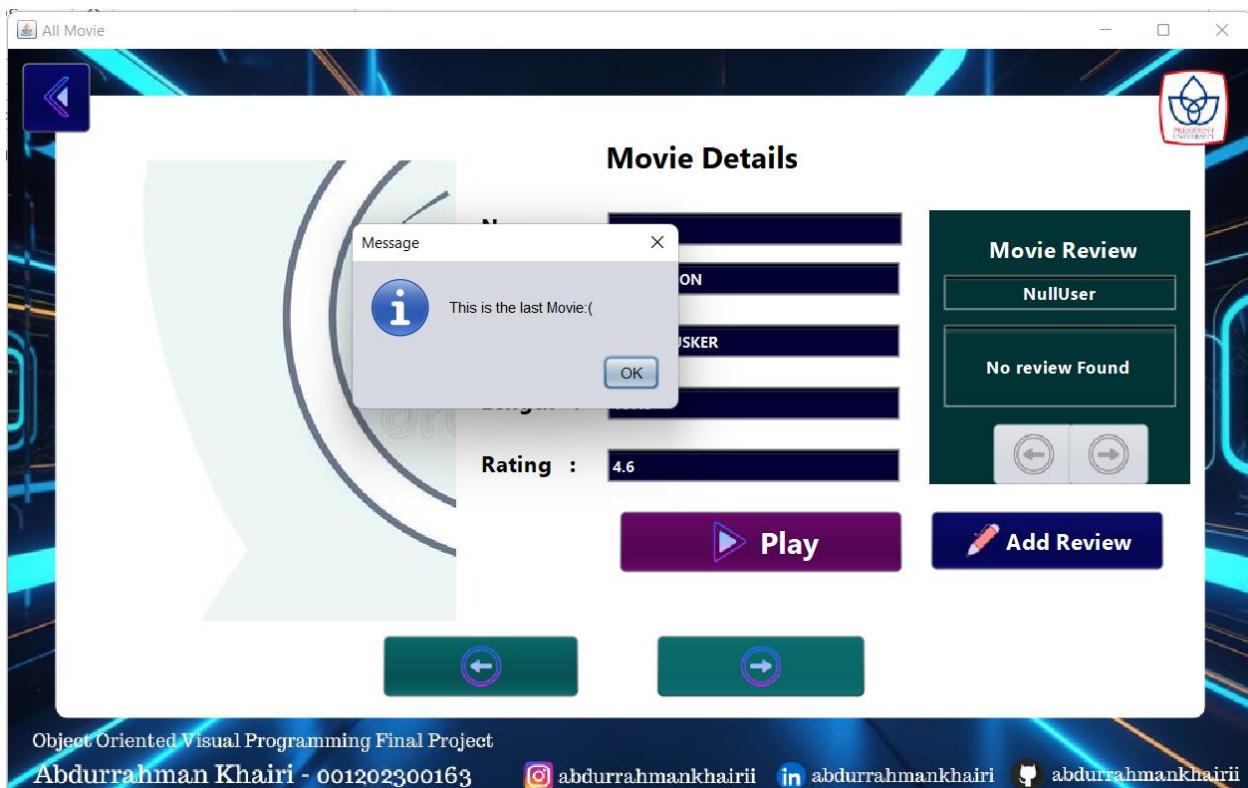


Image 4.3.4.3 View Last Movie Details



4.3.5 AddReview

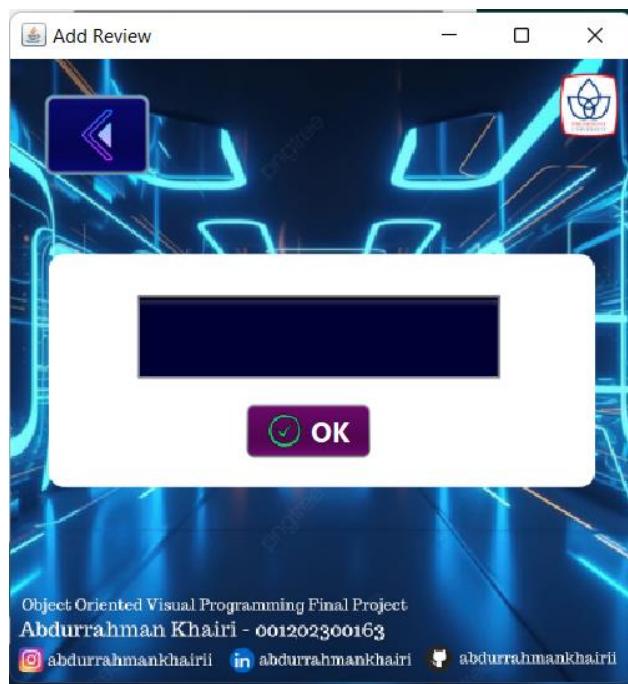


Image 4.3.5.1 View Add Review Form

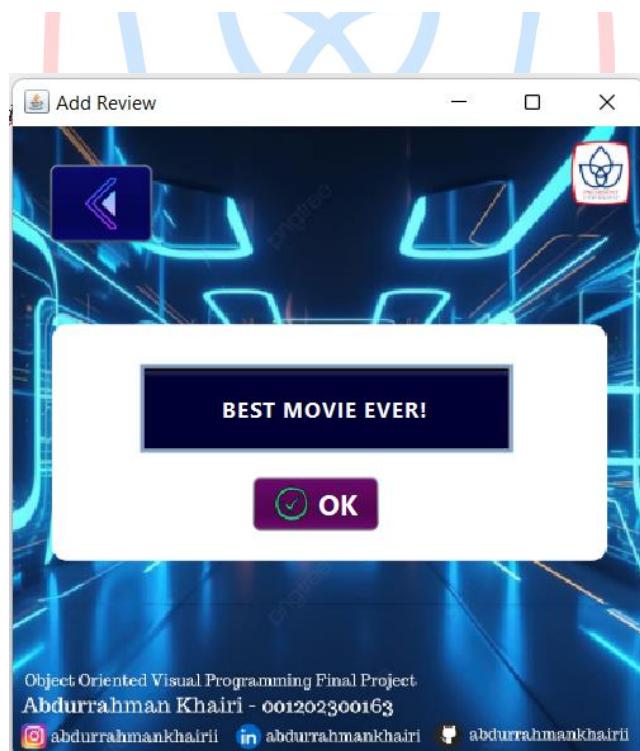


Image 4.3.5.2 Input Add Review Form

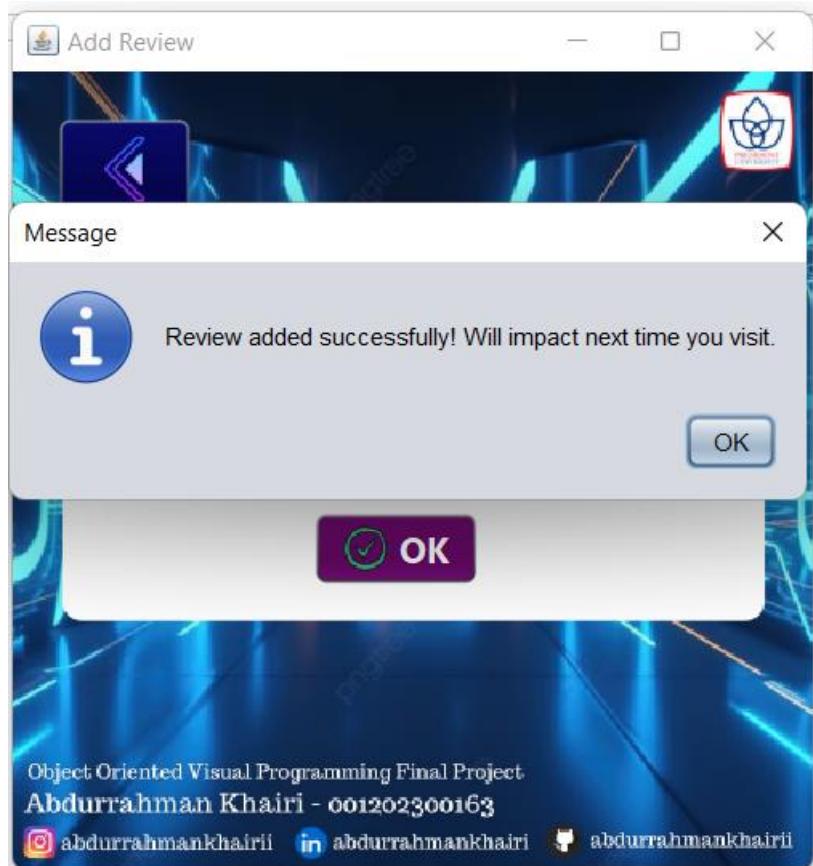


Image 4.3.5.3 Review Added Successfully

4.3.6 SearchMovie

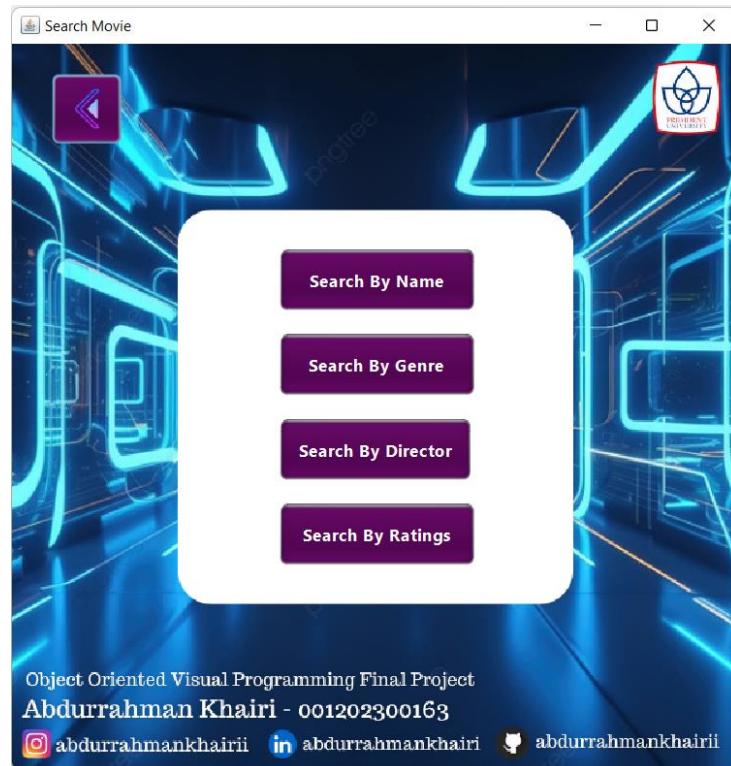


Image 4.3.6.1 View Search Movie Form

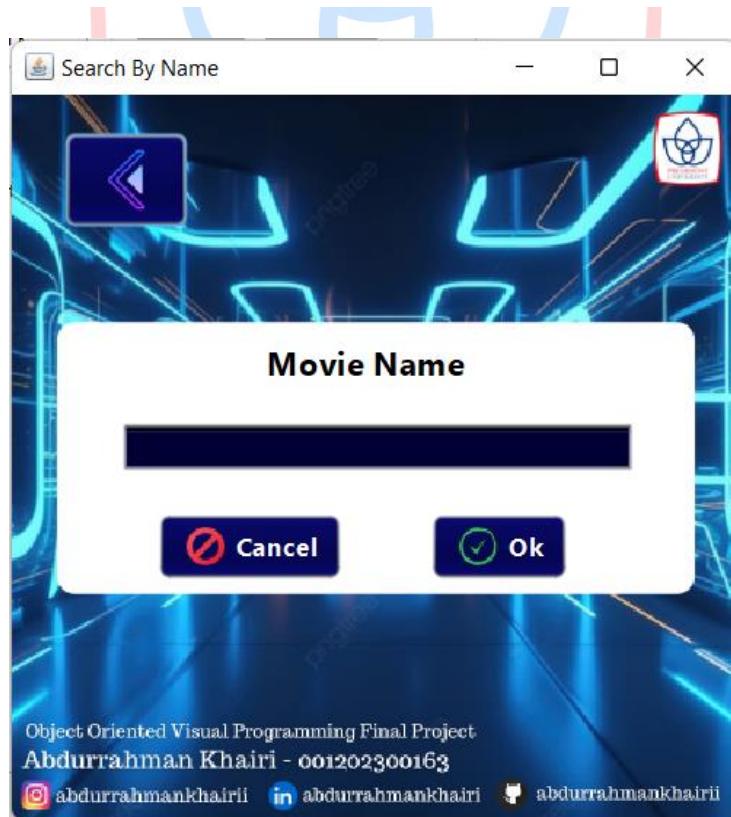


Image 4.3.6.2 View Serch Movie By Name Form

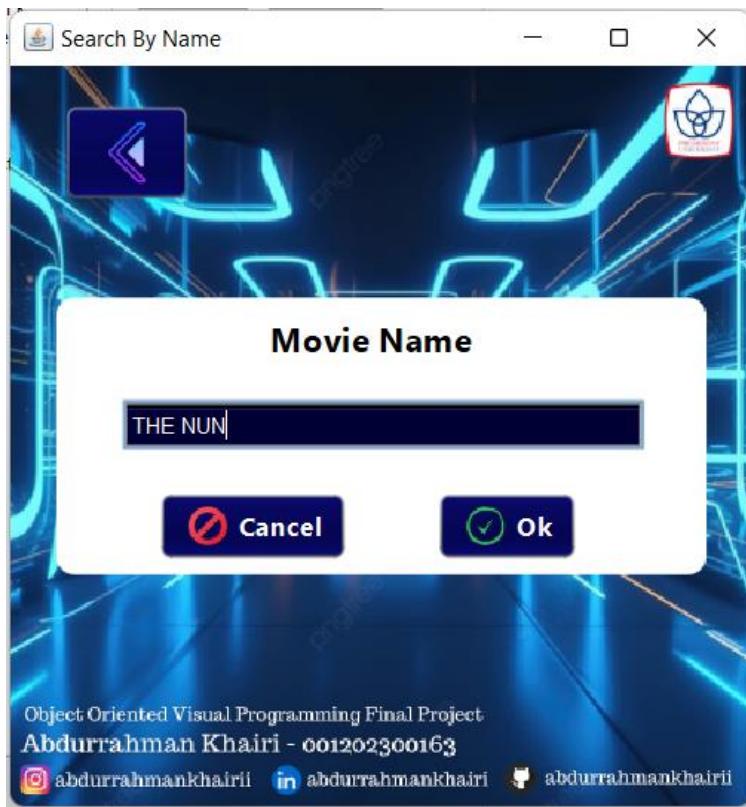


Image 4.3.6.3 Input Serach Movie By Name Form

A screenshot of a movie details screen titled "Movie Details". It displays the following information:

- Name : THE NUN
- Genre : HORROR
- Director : CORIN HARDY
- Length : 96.0
- Rating : 9.2

Below this information are two buttons: "Play" with a play icon and "Add Review" with a pencil icon. To the right of the details is a sidebar titled "Movie Review" which shows "NullUser" and "No review Found". At the bottom are two navigation buttons with left and right arrows. The footer of the application includes the title "Object Oriented Visual Programming Final Project", the developer's name "Abdurrahman Khairi - 001202300163", and social media links for Instagram, LinkedIn, and GitHub.

Image 4.3.6.4 Display Movie Details By Searching Name Form

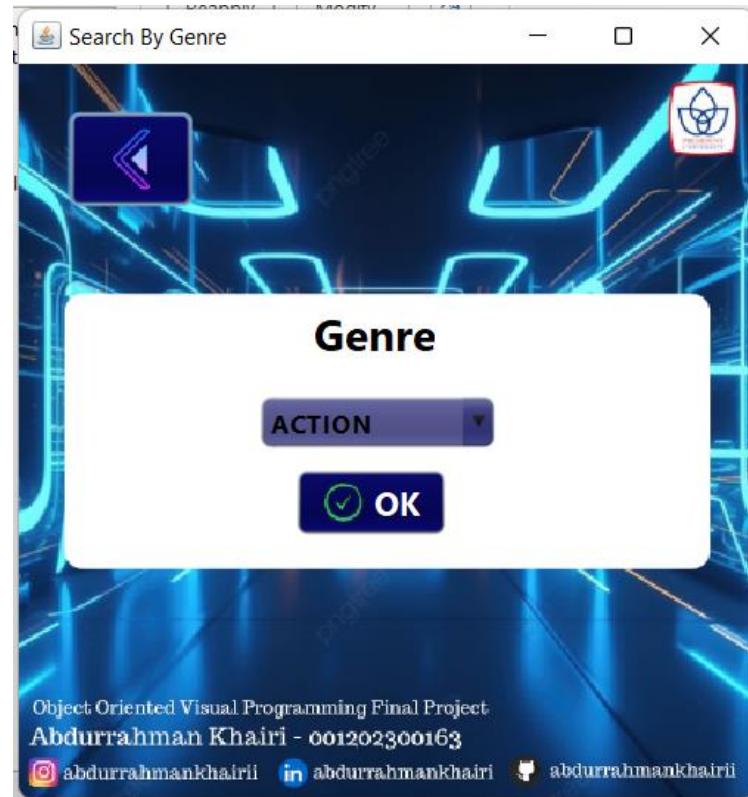


Image 4.3.6.5 View Search Movie By Genre Form

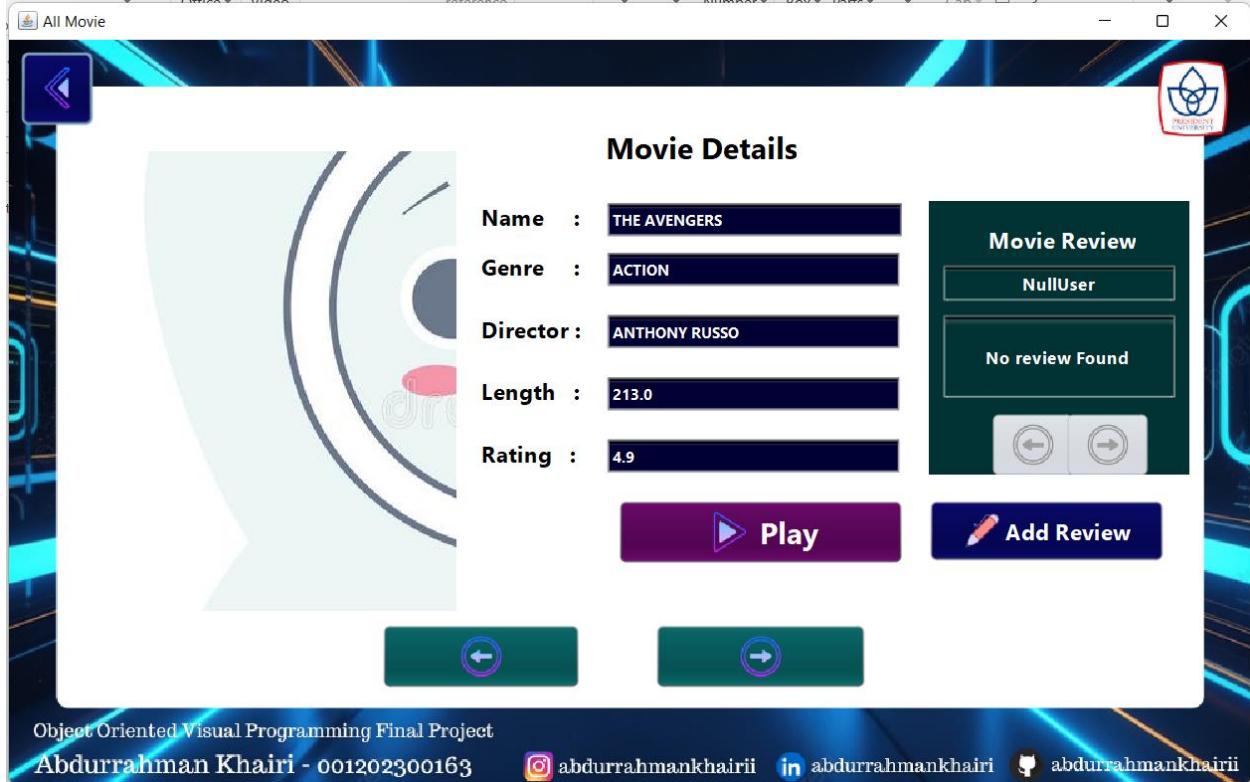


Image 4.3.6.6 Display Movie Details By Seaching Genre Form

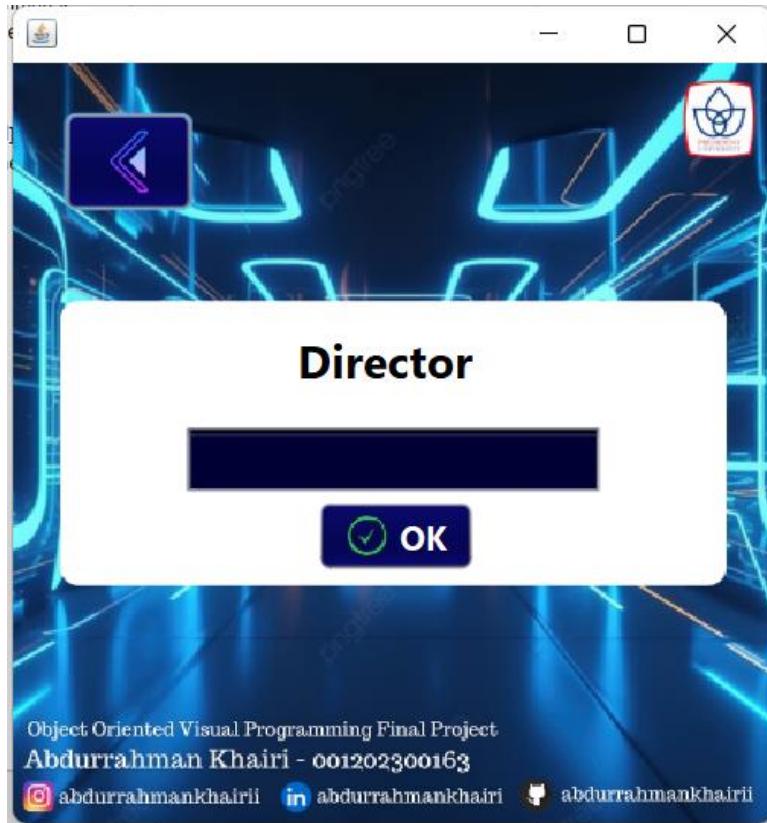


Image 4.3.6.7 View Search Movie By Director Form

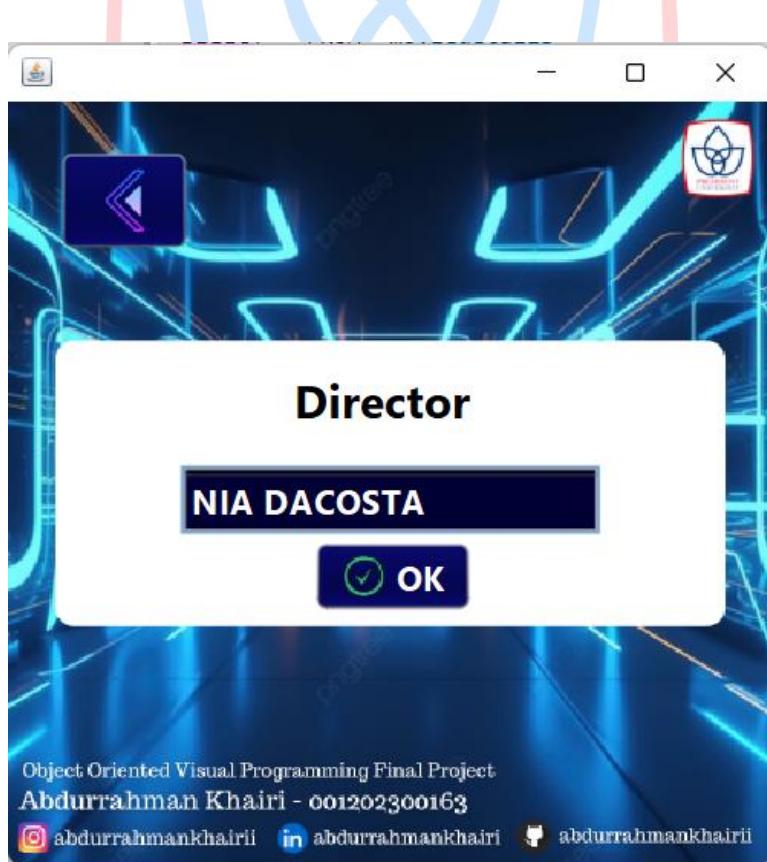


Image 4.3.6.8 Input Search Movie By Director Form

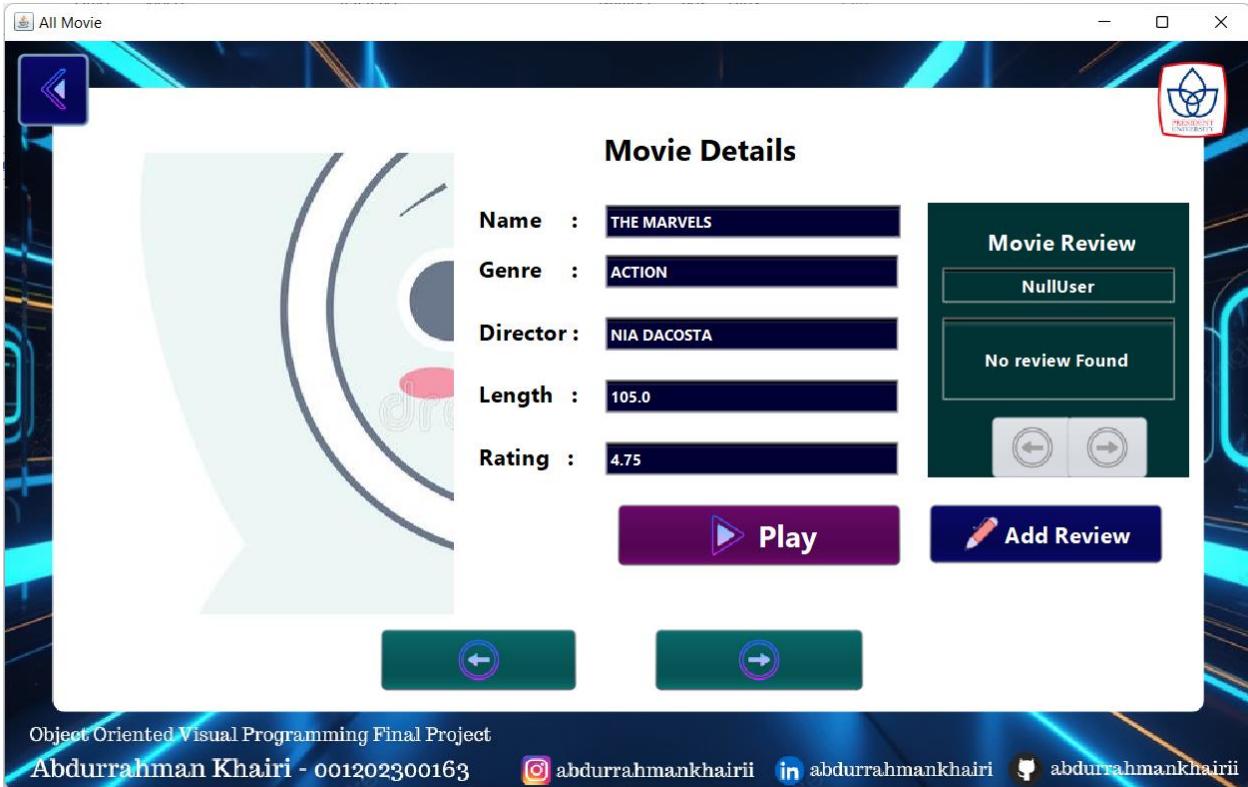


Image 4.3.6.9 Display Movie Details By Searching Director Form

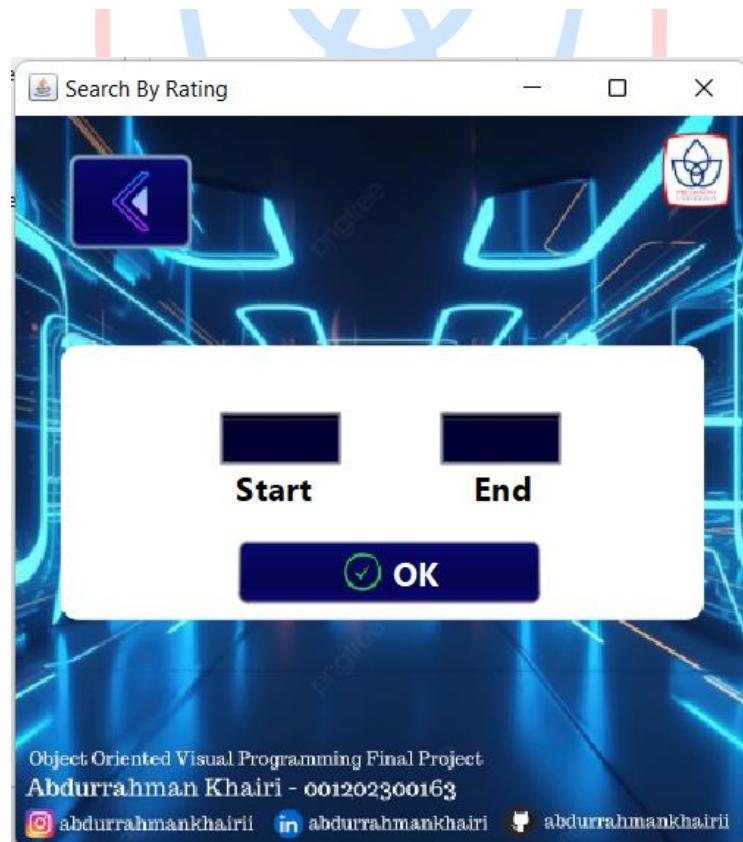


Image 4.3.6.10 View Search Movie By Rating Form

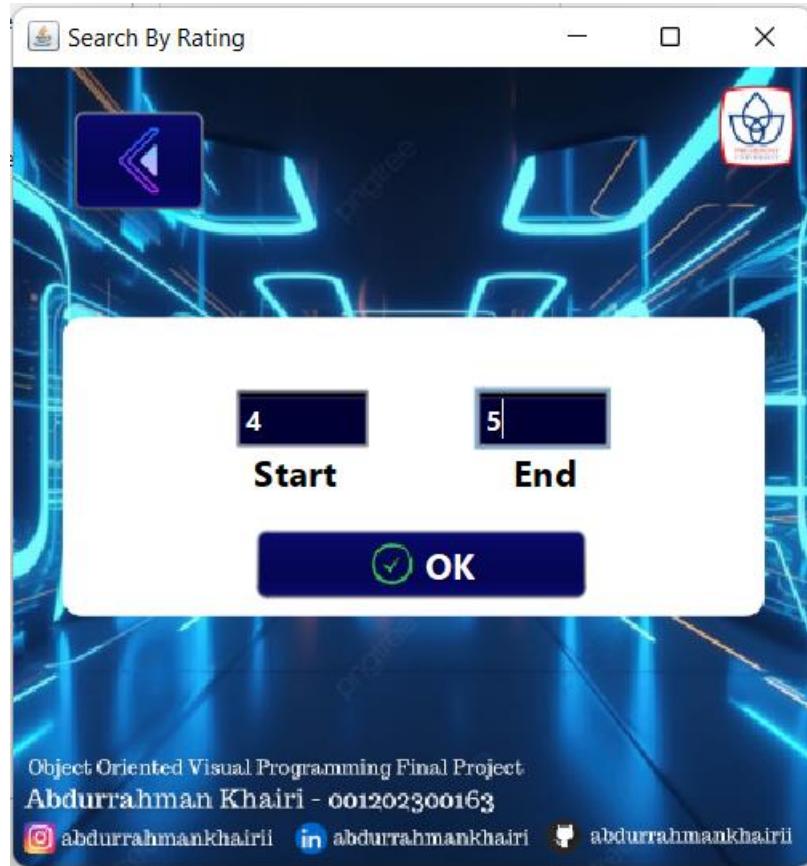


Image 4.3.6.11 Input Search Movie By Rating Form

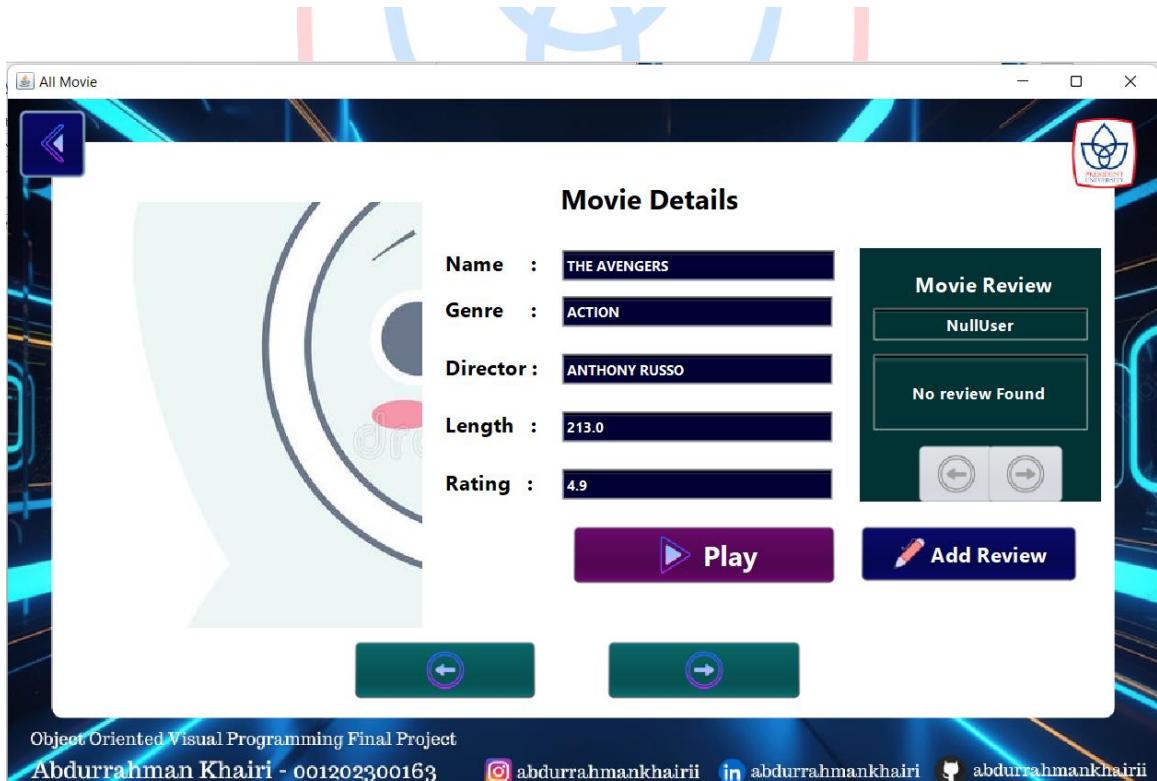


Image 4.3.6.12 Display Movie Details By Searching Rating Form

4.3.7 ContactUs



Image 4.3.7.1 View Contact Us

4.3.8 RequestMovie

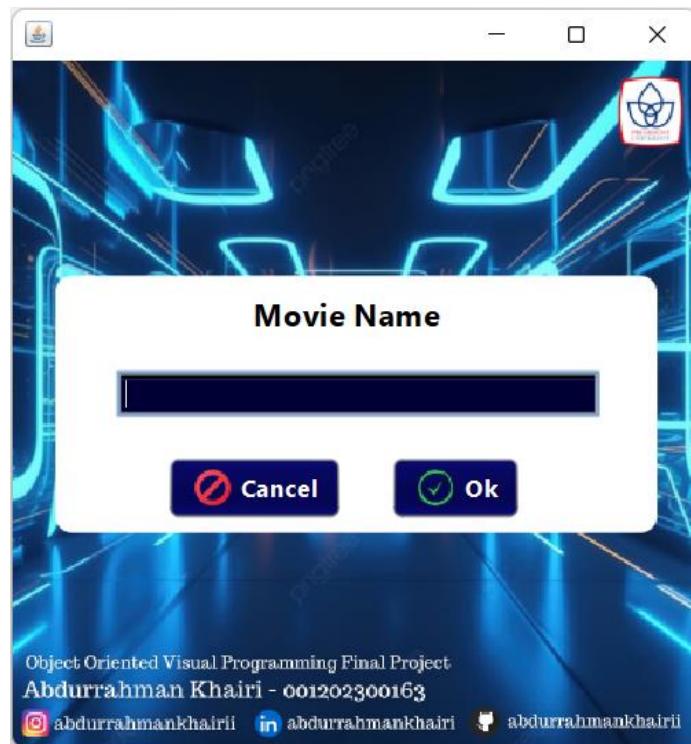


Image 4.3.8.1 View Request Movie Form

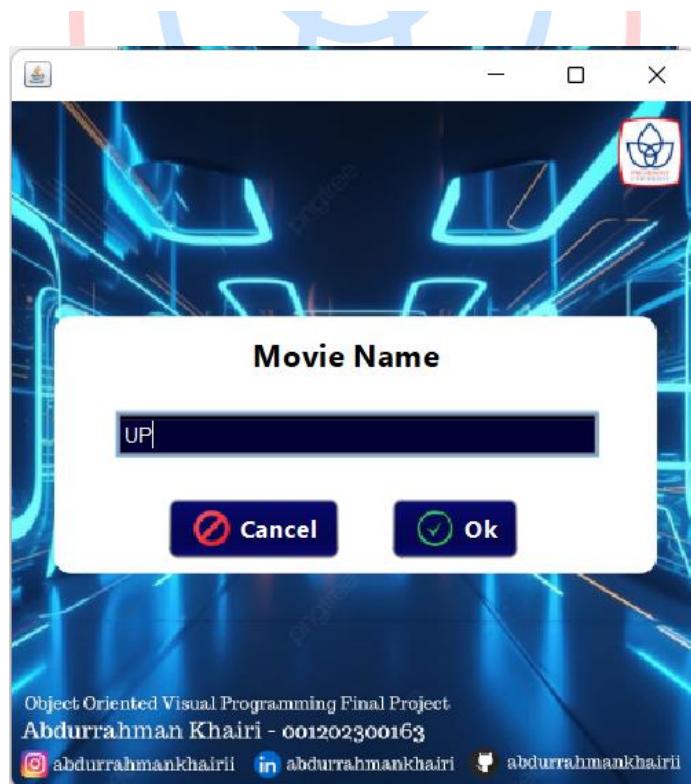


Image 4.3.8.2 Input Request Movie Form

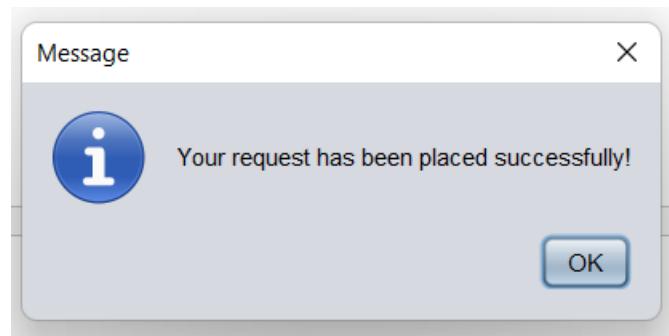
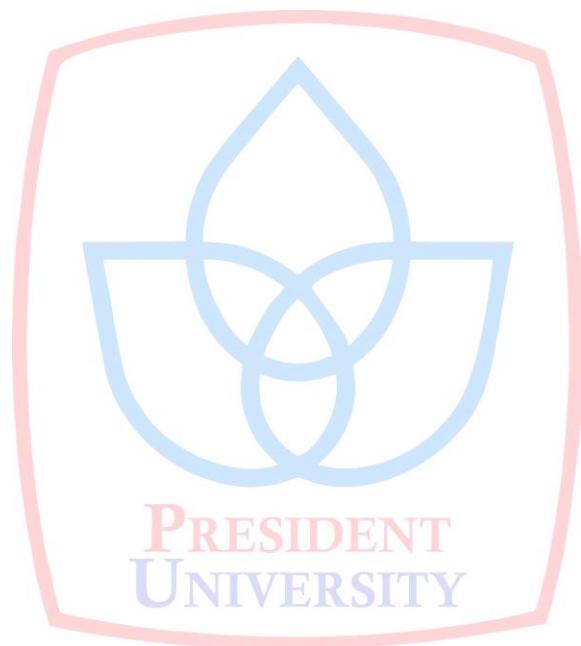


Image 4.3.8.3 Request Send Successfully



4.3.9 LogOutUser

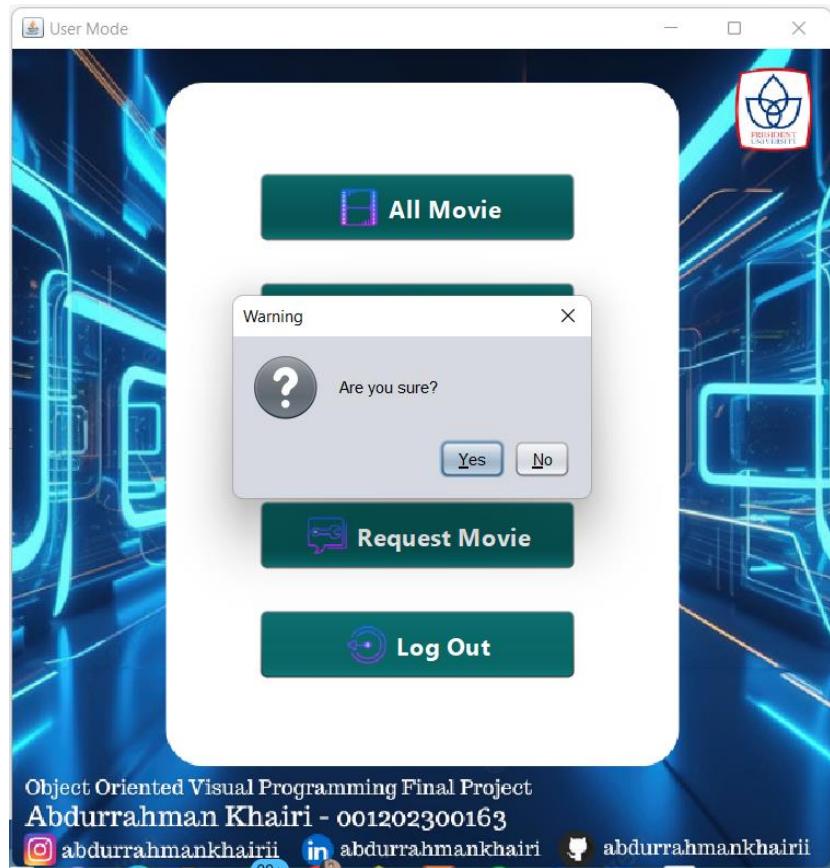


Image 4.3.8.4 LogOut User



BAB V

CONCLUSION

5.1 CONCLUSION

In conclusion, the development of a movie ticketing application using Java NetBeans and a MySQL database offers a comprehensive solution to streamline the movie-watching experience. This user-friendly application empowers users to effortlessly book tickets, access detailed movie information, and discover a wide variety of films.

The application addresses the shortcomings of traditional ticketing methods by providing a convenient and efficient platform for booking movie tickets. NetBeans IDE's intuitive interface and Java's object-oriented programming capabilities facilitate a seamless development process, resulting in a robust and scalable application.

5.2 BENEFITS

The implementation of this movie ticketing application offers a multitude of benefits for users, including:

- a. **Simplified Movie Ticket Booking:** Users can conveniently book movie tickets from their devices, eliminating the need to queue at cinema counters.
- b. **Comprehensive Movie Information:** The application provides users with detailed information about movies, including synopses, trailers, ratings, and user reviews, empowering them to make informed choices.
- c. **Diverse Movie Selection:** Users can explore a vast selection of movies from various genres and countries, catering to diverse preferences and cinematic tastes.
- d. **Enhanced User Convenience and Satisfaction:** By streamlining the booking process, offering rich movie information, and providing a diverse film selection, the application elevates the overall movie-watching experience for users.

5.3 FUTURE RECOMMENDATION

Future enhancements can be explored to further improve the application's functionality and user experience. These may include:

- a. **Integration with Online Payment Gateways:** Implementing secure online payment gateways will allow users to seamlessly purchase tickets within the application.
- b. **Advanced Search and Filtering Options:** Adding advanced search and filtering functionalities based on genre, release date, director, cast, and user ratings will enable users to refine their movie searches and discover films that align with their specific preferences.
- c. **Seat Selection Functionality:** Integrating seat selection capabilities will empower users to choose their preferred seats during the booking process.
- d. **Personalized Recommendations:** Implementing a recommendation system based on user preferences and viewing history will personalize the movie discovery experience for users.
- e. **Integration with Social Media Platforms:** Connecting the application with social media platforms will allow users to share upcoming movies, reviews, and recommendations with friends and family.

By incorporating these potential enhancements, the movie ticketing application can evolve into a comprehensive and user-centric platform, further transforming the way users discover, book tickets for, and enjoy movies.