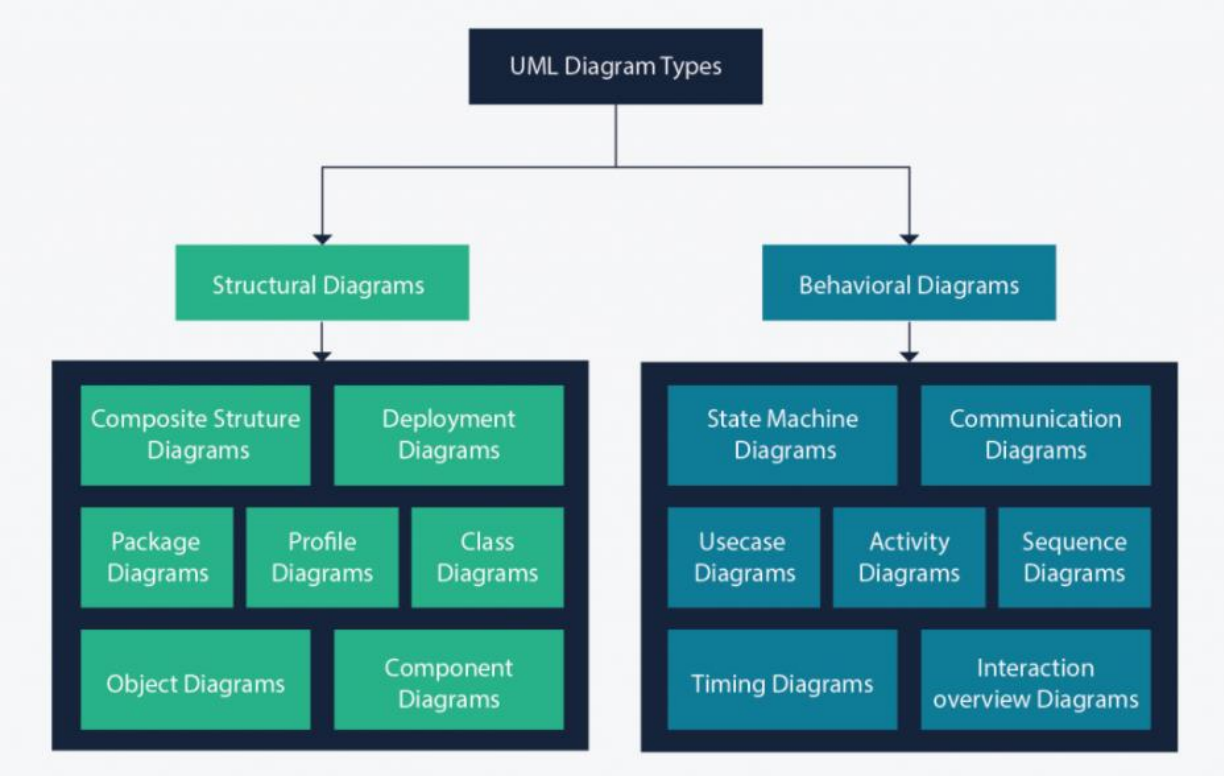
GROUP 10

INVENTION MANAGEMENT SYSTEM

- The Invention Management System Database is made to store,
    - Invention details
    - Inventor details
    - Awards Received etc.

UML DIAGRAM:



Structural diagrams:

- Structural diagrams show the things in the modeled system.
- In a more technical term, they show different objects in a system.

Behavioral diagrams:

- Behavioral Diagrams show what should happen in a system.
- They describe how the objects interact with each other to create a functioning system.

Use Case Diagram:

- Use case diagrams give a graphic overview of the actors involved in a system, different functions needed by those actors and how these different functions interact.

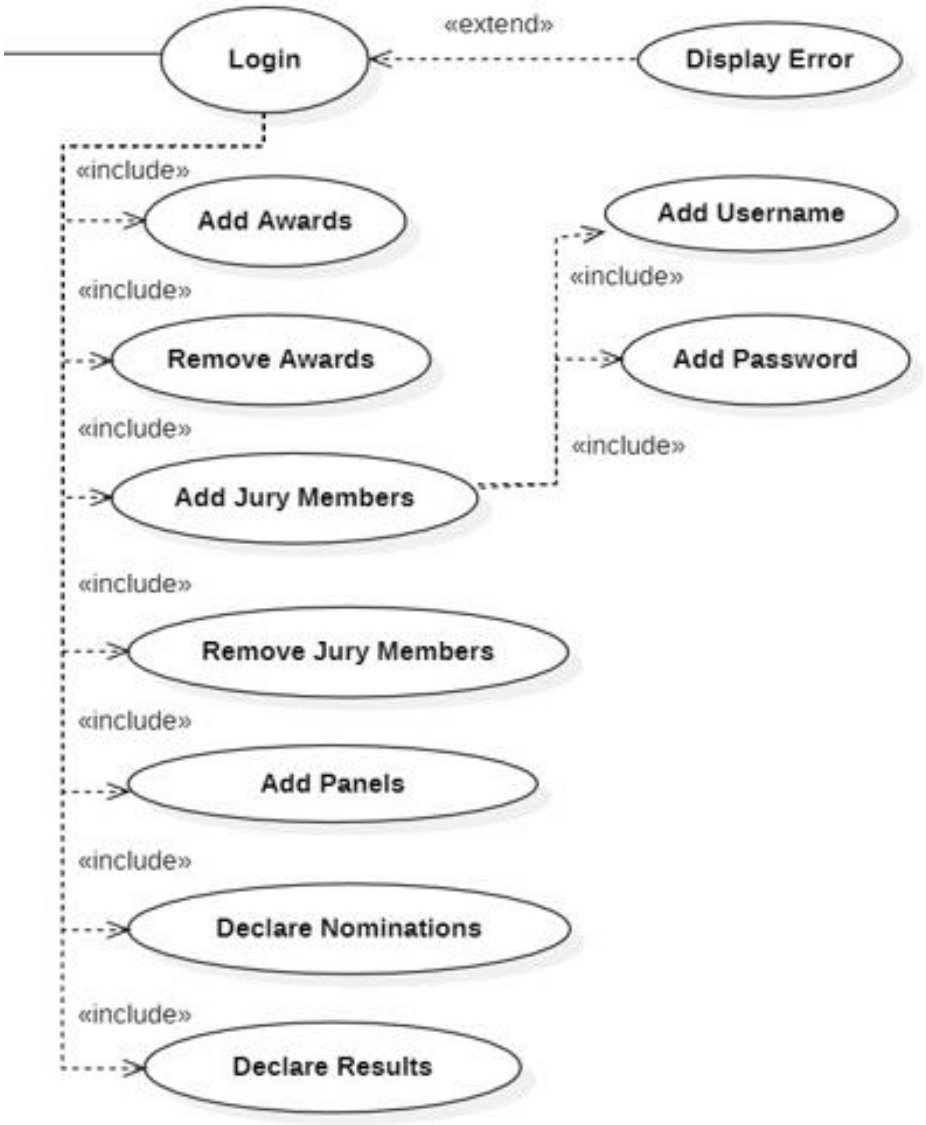
- It's a great starting point for any project discussion because you can easily identify the main actors involved and the main processes of the system.

- This Use Case Diagram depicts the High-level view of the Invention Management system.
- It also provides the scenarios in which the application interacts with,
    - Inventor
    - Jury
    - Admin

Actor Category	Actor
Primary Actor	Jury, Admin
Secondary Actor	Inventor

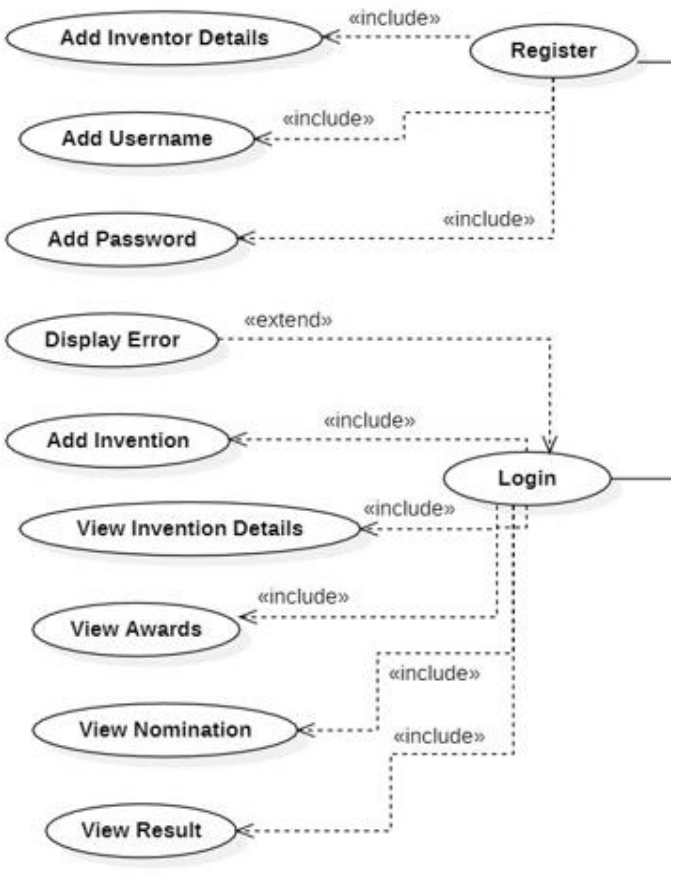
There are total of Twenty-Six use cases that represent the specific functionality of Invention Management System.

Each actor interacts with a particular use case.



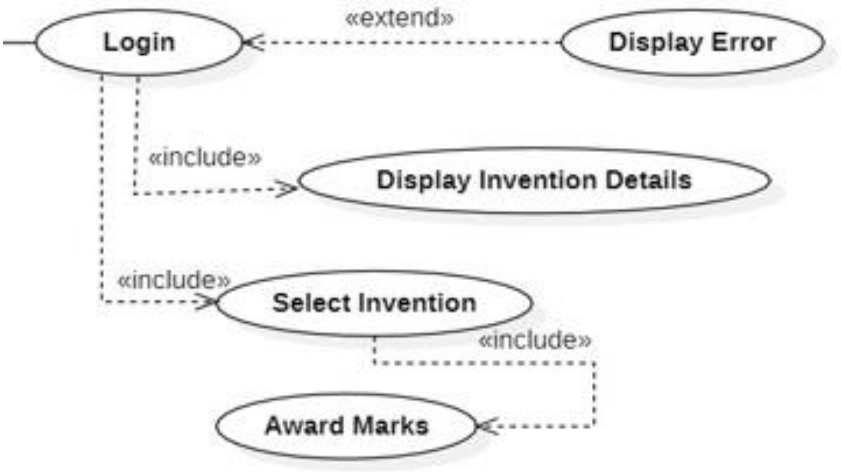
Functionality of Admin:

- Login to take the overall Control of the Data Base
- Add or Remove Awards
- Add or Remove Panel
- Add or Remove Jury
- Declare Nominations
- Declare Results
- Admin takes the overall control of the database or in other words say one of the primary Actors.
- Admin have to just login inside the database and gets the overall control.



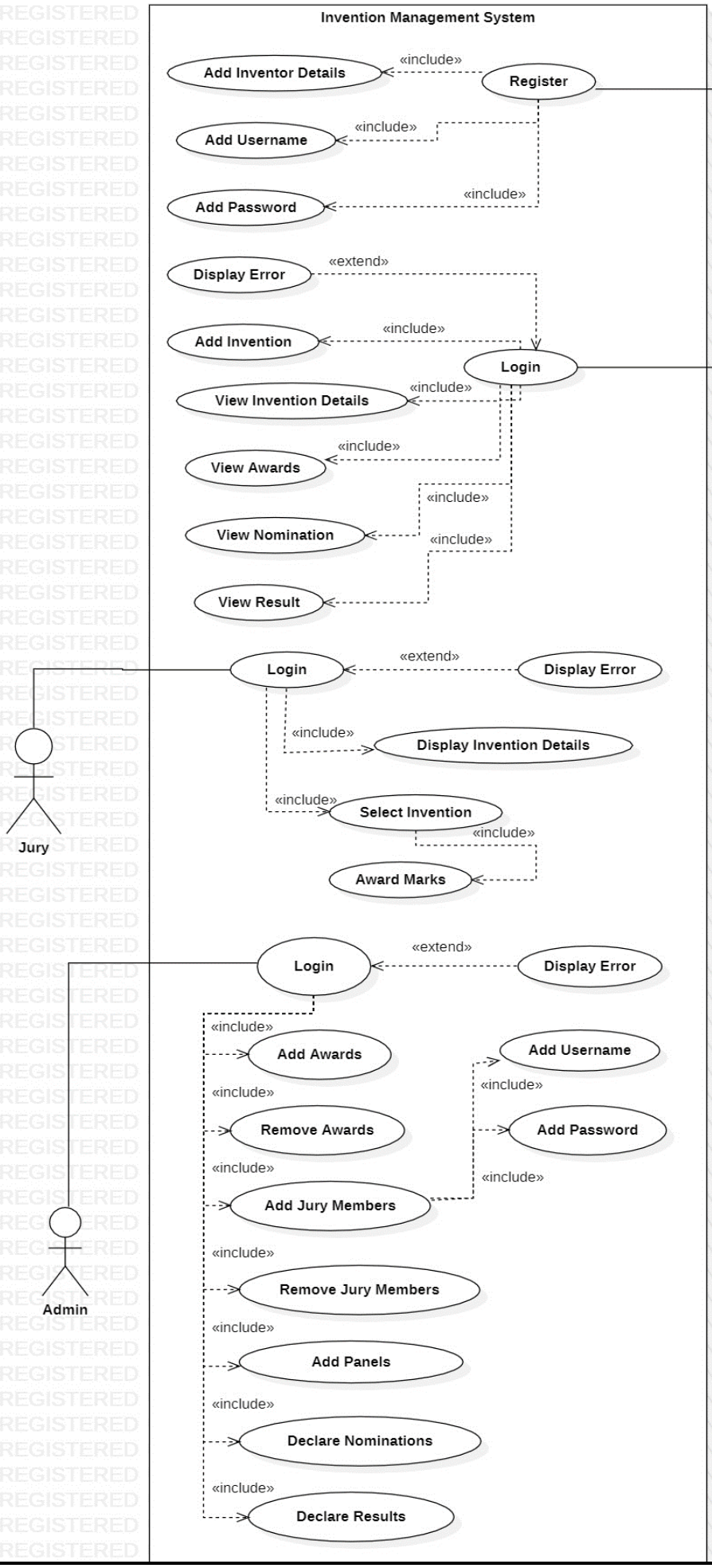
Functionality of Inventor Actor:

- Register in the database to create Account
- Register for New Username and Password
- Login using his/her credentials
- Add the details of his/her invention
- View the Invention details
- View Awards
- View Nominations
- View Results
- Inventor can create the account in the database to register his/her invention.
- Once registered Inventor needs to set the username and password to login into the database next time.
- Once Inventor Actor successfully logins, gets option to add the invention to the database.
- If Inventor is not able to login successfully then, they will get the Error message.
- Inventor can also view the invention details that he/she have enclosed while registering in the database.
- Inventor can view the results of the invention.



Functionality of Jury Actor:

- Login to Invention Management System
- View Invention Details that are Displayed when logged In.
- Select the Invention
- Award Marks for the Selected Invention.
- Jury can login to the Invention management system using the credentials provided by the Admin.
- Once they successfully login inside the Portal they get access to all invention.
- If they are not able to login successfully then they will get the Error message.
- From the list of inventions given they can select the allotted invention.
- They can look into the inventions and award marks to the selected Invention.


Invention Management System
Add Inventor Details
«include»
Register
Add Username
«include»
Add Password
«include»
Inventor
Display Error
«extend»
Add Invention
«include»
Login
View Invention Details
«include»
View Awards
«include»
View Nomination
«include»
View Result
«include»
Login
«extend»
Display Error
Jury
«include»
Display Invention Details
«include»
Select Invention
«include»
Award Marks
Login
«extend»
Display Error
Admin
«include»
Add Awards
Add Username
«include»
«include»
Remove Awards
Add Password
«include»
«include»
Add Jury Members
«include»
Remove Jury Members
«include»
Add Panels
«include»
Declare Nominations
«include»
Declare Results

Class Diagram:

- Class diagrams are the main building block of any object-oriented solution.
- It shows the classes in a system, attributes, and operations of each class and the relationship between each class.
- In most modeling tools, a class has three parts.
- Name at the top, attributes in the middle and operations or methods at the bottom.
- In a large system with many related classes, classes are grouped together to create class diagrams.
- Different relationships between classes are shown by different types of arrows.

Public (+):

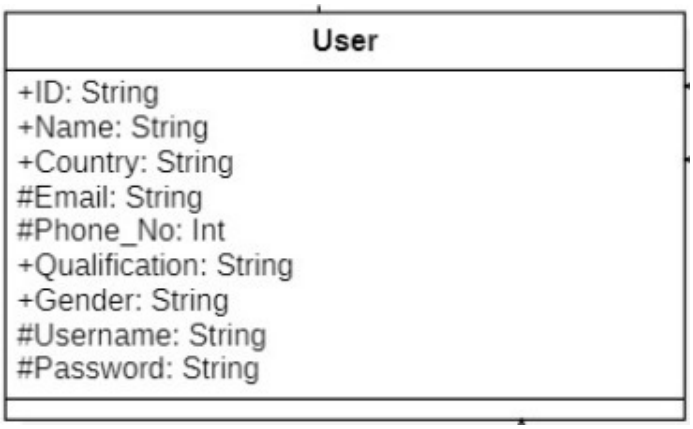
- Public members are visible to all other classes.
- This means that any other class can access a public field or method.
- Further, other classes can modify public fields unless the field is declared as final.

Protected (#):

- The **protected** keyword is an access modifier used for attributes, methods and constructors, making them accessible in the same package and subclasses.

Private (-):

- The methods or data members declared as private are accessible only within the class in which they are declared.
- The access level of a private modifier is only within the class. It cannot be accessed from outside the class.
- Any other class of the same package will not be able to access these members.



- **User** is Implemented from the Interface **Login Details.**

+ ID:

- Unique ID to identify the User.
- It is of type String.

+ Name:

- Name of the User.
- It is of type String.

+ Country:

- Country in which the user resides.
- It is of type String.

+ Qualification:

- An experience that makes the user suitable for a particular job or activity.
- It is of type String.

+ Gender:

- To specify the Gender of the User.
- It is of type String.

Email:

- Email of the User.
- It is of type String.

Phone_No:

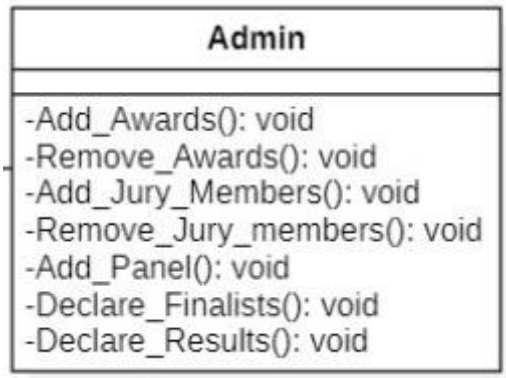
- Phone Number of the User.
- It is of type Integer.

Username:

- Unique Username that each user has to login to his/her account.
- It is of type String.

Password:

- Password that each user has to login to his/her account.
- It is of type String.



Admin class is Inherited from the Parent Class User.

It Inherits all properties of the User and it has its own Methods.

- Add_Awards():

- This Method is used to add the available Awards to the DataBase.
- These Awards will be given to the Inventor based on their Invention.
- It doesn't take any parameter and doesn't return anything.
- It just asks for the name of the Award that has to added when it is called.

- Remove_Awards():

  - This method is used to remove the Awards from the DataBase.
  - It doesn't take any parameter and doesn't return anything.

- Add_Jury_Members():

  - This Method is used to add the details of the Jury Members to the DataBase.
  - It doesn't take any parameter and doesn't return anything.
  - It just asks for the details of the Jury that has to added when it is called.

- Remove_Jury_Members():

  - This method is used to remove the details of the Jury Members from the DataBase.
  - It doesn't take any parameter and doesn't return anything.

- Add_Panel():

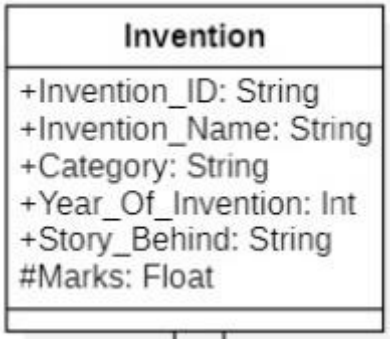
  - This Method is used to add the Panel to the DataBase.
  - It doesn't take any parameter and doesn't return anything.
  - It just asks for the details of the Panel that has to added when it is called.

- Declare_Finalists():

  - This method is used to declare the names of the Inventors who have been selected to the Finals.

- Declare_Results():

- This method is used to declare Finale results.



+ Invention_ID:

- Unique ID to identify the Invention.
- It is of type String.

+ Invention_Name:

- Name of the Invention.
- It is of type String.

+ Category:

- This attribute defines the category In which the Invention belongs to.
- It is of type String.

+ Year_Of_Invention:

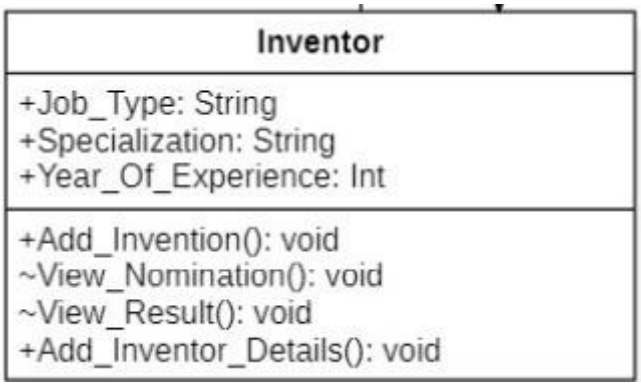
- Year in which the invention has been invented.
- It is of type Integer.

+ Story_Behind:

- This defines the motive and the reason behind Inventing the particular Invention.
- It is of type String.

Marks:

- Marks that has been awarded for the particular invention by the Jury.



+ Job_Type:

- This attribute stores the current job of the Inventor
- This is of type String.

+ Specialization:

- This stores the academic specialization of the inventor.
- This is of type String.

+ Year_Of_Experience

- This attribute stores the years of experience of the inventor.
- It is of type integer(int).

- **Add_Invention()**

  - Using this method, we add the inventions of the inventor which has been nominated to the database.

- **View_Nomination()**

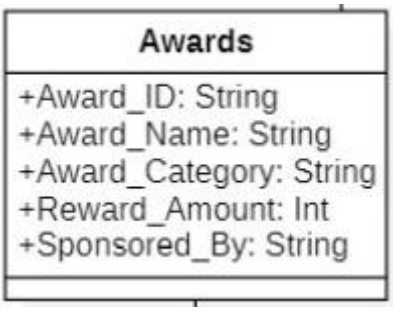
  - This method displays the inventions of the inventor which have been nominated.

- **View_Result()**

  - This method displays the inventions which has been shortlisted as winners.

- **Add_Inventor_Details()**

  - This method is used to add the details of the invention into the database.



+ Award_ID

- This attribute is used to store the id of the award.
- This is of type String.

+ Award_Name

- This attribute is used to store the name of the award.
- This is of type String.

+ Award_Category

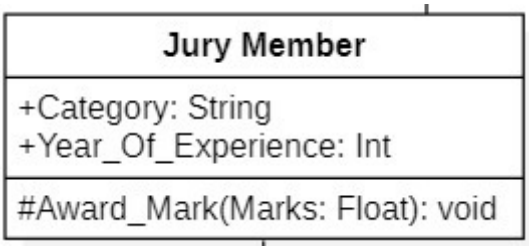
- The invention category is stored in this attribute.
- This is of type String.

+ Reward_Amount

- The prize money given to the winner in this category is stored in this attribute.
- This is of type integer(int).

+ Sponsored_By

- The sponsor for the prize money is stored in this attribute.
- This is of type String.



+ Category

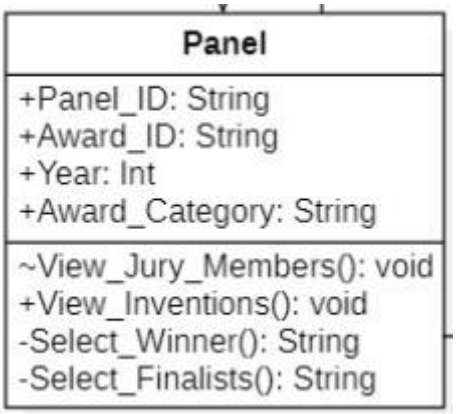
- The category in the award ceremony where the particular person is part of the jury is stored in this attribute.
- This is of type String.

+ Year_Of_Experience

- The years of experience of the Jury Member is stored in this attribute.
- It is of type Integer(int).

Award_Marks

- It stores the marks that has been awarded for the invention.
- This takes marks as the parameter which is of type Float.
- It doesn't return anything.



+ Panel_ID

- This attribute stores the ID of the particular panel.
- It is of type String.

+ Award_ID

- This attribute stores the ID of the award for which the particular panel is judging.
- It is of type String.

+ Year:

- It stores the year of the award ceremony.
- It is of type Integer(int).

+ Award_Category:

- This attribute stores the category of the award for which the panel is judging for.
- It is of type String.

- View_Jury_Members()

- This method displays the jury members present in the particular panel.

- View_Inventions()

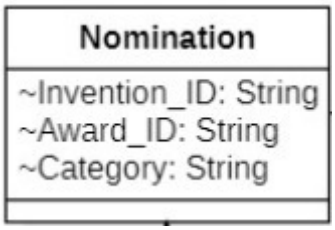
- This method displays the inventions which are part of the category the panel is judging over.

- Select_Winner()

- This method is used to determine the winner in the particular category.
- The winner is returned as a String.

- Select_Finalists()

- This method is used to find out the qualifying inventions in the preliminary round.
- The qualifying inventions are returned as a String.



+ Invention_ID

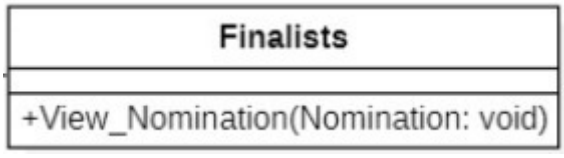
- This attribute stores the invention ID of the particular invention which has been nominated.
- It is of type String.

+ Award_ID

- This attribute stores the award ID of the invention which has been nominated.
- It is of type String.

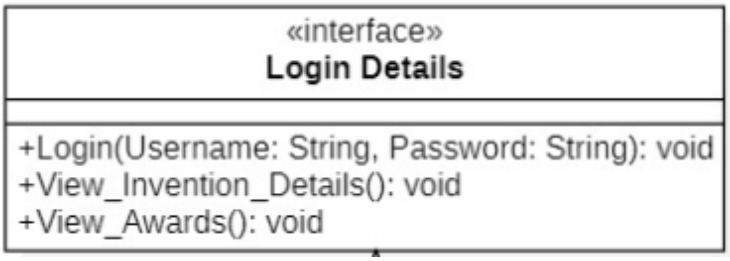
+ Category

- This attribute stores the category of the invention,
- It is of type String.



+ View_Nominations:

- It shows all the nominations of the finalists.



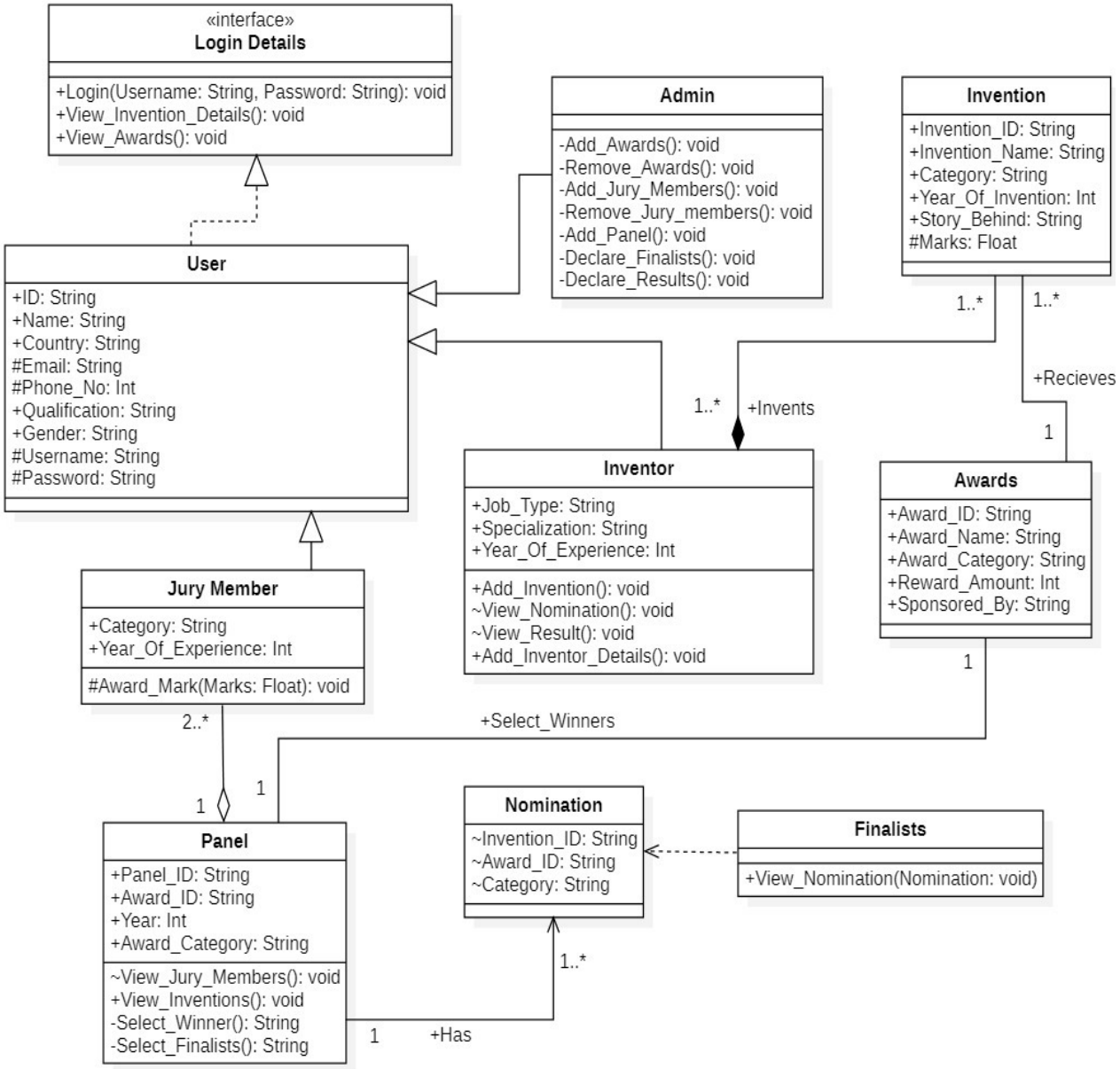
Login:

- This takes the Username and Password as arguments which is of type String.
- It doesn't return anything.
- Using this credential, the user can login to the Portal/System.

ASSOCIATION	Invention ⟷ Award Awards ⟷ Panel
	• One Award can be given to one or more Invention. • Panel selects only one winner for a particular Award. • One Award can be selected by only One Panel.

REALIZATION	Login Details ⬅ User
	• **User** implements an interface **Login Details**, thereby inheriting the abstract methods of the **Login details**.
GENERALIZATION	USER ⬅ Admin ⬅ Inventor ⬅ Jury Member
	• Admin Inherits the properties of User. • Inventor Inherits the properties of User. • Jury Member Inherits the properties of User.
DEPENDENCY	Nominations ⬅ Finalists
	• Finalists Dependent on the Nominations since an object of Nominations is being used by the Finalists.
AGGREGATION	Jury Member ➡ Panel
	• The Jury Member can exist independently of the Panel.

COMPOSITION	Invention ➡ Inventor
	• Invention cannot exist without the Inventor.



INHERITANCE

- Here user is the parent class and it has three child class or sub class.
    - Admin
    - Inventor
    - Jury Members
- User have all data members and attributes that are common to all three sub classes.
- Here the basic Details are taken as the common attributes and made the sub classes to inherit from the parent class.
    - ID
    - Name
    - Country
    - Email
    - Phone
    - Qualification
    - Gender
    - Username
    - Password

The common operation for admin, inventor, jury members is that all have to login to the portal before entering into the database.

- So, login operation and it's common attributes are included in the parent class.
- All those three actors can view both the Invention and Award details.

STATIC

- Here we have used static variable to differentiate the ADMIN and the JURY.
- Here we have declared as if the flag is 1 then the admin class will be triggered and all functionalities associated with the admin will be visible.
- If the flag is 0 then the jury class will be triggered and all functionalities associated with the jury will be visible.
- Static holds the same value in all places and thus it is helpful in interacting with different object.

OVER RIDING

- If a subclass provides the specific implementation of the method that has been declared by one of its parent class, it is known as method overriding.
- Here we have used over riding concept in the operations **viewnomination()** and **viewawards()** rather than declaring them individually.
- This improves readability and helps in better implementation.

JDBC

- JDBC stands for Java Database Connectivity, which is a standard Java API for database-independent connectivity between the Java programming language and a wide range of databases.
- The JDBC library includes APIs for each of the tasks mentioned below that are commonly associated with database usage.
- Making a connection to a database.
- Creating SQL statements.
- Executing SQL queries in the database.
- Viewing & Modifying the resulting records.

Create a Connection

- Before doing any work, we must create a connection to the database:
- **Class.forName("org.postgresql.Driver");**
- **Connection c = DriverManager.getConnection("jdbc:postgresql:**DATABASELOCATION**");**
- Replace **DATABASELOCATION** with the (preferably relative) path to your database file.

Close a Connection

After finishing working with the database, we must close its connection:

c.close();

Using Statements

- Statements can be used to make updates, like this INSERT:
- Statement stmt = c.createStatement();
- String sql = "INSERT INTO employees (name, salary, address) "+ "VALUES ('" + name + "', " + salary + ", '" + address + "')";
- stmt.executeUpdate(sql);

Or queries, like this SELECT:

- Statement stmt = c.createStatement();
- String sql = "SELECT * FROM employees";
- ResultSet rs = stmt.executeQuery(sql);
- When making queries, the results are returned as a Result Set.
- We must always remember to close the Statement:
- stmt.close();

Prepared Statements

- Statements **are not recommended** for queries, and they can't be used at all for queries that include anything other than INTEGERs, REALs or TEXTs.
- In this situation, and when we're concerned about security, we use **Prepared Statements**.
- Prepared Statements can be used to make updates, like this INSERT:
- String sql = "INSERT INTO employees (name, phone, salary, dob, photo) "+ "VALUES (?,?,?,?,?)";

```
PreparedStatement prep = c.prepareStatement(sql);

prep.setString(1, "Bob");

prep.setInt(2, 666666666);

prep.setDouble(3, 35000.00);

prep.setDate(4, anSqlDateObject);

prep.setBytes(5, aBytesArray);

prep.executeUpdate();
```

Or queries, like this SELECT:

- String sql = "SELECT * FROM employees WHERE name LIKE ?";
- PreparedStatement prep = c.prepareStatement(sql);
- prep.setString(1, "%XYZ%");
- ResultSet rs = prep.executeQuery();
- Again, when making queries, the results are returned as a Result Set.
- As always, rememeber to close the Prepared Statement:
- prep.close();

Processing Result Sets

- When making queries, either with Statements or Prepared Statements, the results are returned as a Result Set.
- We can iterate over a Result Set and access its contents:
- Again, we mustn't forget to close the Result Set:
- rs.close();

Query Editor Query History

```
1  CREATE TABLE AWARDS
2  (AWARD_ID VARCHAR (20) PRIMARY KEY,
3  AWARD_NAME VARCHAR (20),
4  AWARD_CATEGORY VARCHAR (20),
5  REWARD_AMOUNT INT,
6  SPONSORED_BY VARCHAR (20));
```

Data Output Explain Messages Notifications

```
CREATE TABLE

Query returned successfully in 248 msec.
```

Query Editor Query History

```
1  CREATE TABLE INVENTION
2  (INVENTION_ID VARCHAR (20) PRIMARY KEY,
3  INVENTION_NAME VARCHAR (30),
4  AWARD_CATEGORY VARCHAR (20),
5  YEAR_OF_INVENTION INT,
6  STORY_BEHIND VARCHAR (100),
7  MARKS NUMERIC)
8
```

Data Output Explain Messages Notifications

```
CREATE TABLE

Query returned successfully in 150 msec.
```

```sql
CREATE TABLE INVENTOR
(INVENTOR_ID VARCHAR (10) PRIMARY KEY,
NAME VARCHAR (20),
GENDER VARCHAR(20),
EMAIL VARCHAR(20),
PHONE_NO VARCHAR(20),
COUNTRY VARCHAR (20),
JOB_TITLE VARCHAR (20),
QUALIFICATION VARCHAR (20),
SPECIALIZATION VARCHAR (20),
YEAR_OF_EXPERIENCE VARCHAR(20))

```

Data Output | Explain | Messages | Notifications

```
CREATE TABLE

Query returned successfully in 83 msec.
```

Query Editor | Query History

```sql
CREATE TABLE INVENTS
(INVENTOR_ID VARCHAR (10) REFERENCES
INVENTOR(INVENTOR_ID),
INVENTION_ID VARCHAR (10) REFERENCES
INVENTION(INVENTION_ID)
)

```

Data Output | Explain | Messages | Notifications

```
CREATE TABLE

Query returned successfully in 102 msec.
```

Query Editor Query History

```
1  CREATE TABLE PANEL
2  (PANEL_ID VARCHAR (10) PRIMARY KEY,
3  PANEL_NAME VARCHAR (20),
4  AWARD_CATEGORY VARCHAR(20))
```

Data Output Explain Messages Notifications

```
CREATE TABLE

Query returned successfully in 228 msec.
```

```
1  CREATE TABLE JURY_MEMBERS
2  (JURY_ID VARCHAR (10) PRIMARY KEY,
3  JURY_NAME VARCHAR (20),
4  GENDER VARCHAR(20),
5  EMAIL VARCHAR(20),
6  PHONE_NO VARCHAR(20),
7  COUNTRY VARCHAR(20),
8  AWARD_CATEGORY VARCHAR(20),
9  QUALIFICATION VARCHAR (20),
10 SPECIALIZATION VARCHAR (20),
11 YEAR_OF_EXPERIENCE VARCHAR(20))
```

Data Output Explain Messages Notifications

```
CREATE TABLE

Query returned successfully in 183 msec.
```

```
1  CREATE TABLE PANEL_JURY
2  (PANEL_ID VARCHAR(20) REFERENCES
3  PANEL(PANEL_ID),
4  JURY_ID VARCHAR (10) REFERENCES
5  JURY_MEMBERS(JURY_ID))
```

Data Output | Explain | Messages | Notifications

```
CREATE TABLE

Query returned successfully in 50 msec.
```

Query Editor | Query History

```
1  CREATE TABLE LOGIN
2  (USERNAME VARCHAR(20),
3  PASSWORD VARCHAR(20),
4  CATEGORY VARCHAR(20),
5  ID VARCHAR(20))
```

Data Output | Explain | Messages | Notifications

```
CREATE TABLE

Query returned successfully in 47 msec.
```

```
1  SELECT * FROM AWARDS
```

Data Output | Explain | Messages | Notifications

award_id [PK] character varying (20)	award_name character varying (20)	award_category character varying (20)	reward_amount integer	sponsored_by character varying (20)

```
1  SELECT * FROM INVENTION
```

Data Output | Explain | Messages | Notifications

invention_id [PK] character varying (20)	invention_name character varying (30)	award_category character varying (20)	year_of_invention character varying	story_behind character varying (100)	marks numeric

```
1  SELECT * FROM INVENTOR
```

Data Output | Explain | Messages | Notifications

inventor_id [PK] character var	name character vary	gender character var	email character vary	phone_no character varying (20)	country character varying (20)	job_title character varying (20)	qualification character varying	specialization character varying (20)	year_of_experience character varying (20)

```
1  SELECT * FROM INVENTS
```

Data Output | Explain | Messages | Notifications

inventor_id character varying (10)	invention_id character varying (10)

```
1  SELECT * FROM JURY_MEMBERS
```

Data Output | Explain | Messages | Notifications

jury_id [PK] character va	jury_name character varying (	gender character varying	email character varying (20)	phone_no character varying (	country character varyin	award_category character varying (20)	qualification character varying (20	specialization character varying (20	year_of_experience character varying (20)

```
1  SELECT * FROM PANEL
```

Data Output | Explain | Messages | Notifications

panel_id [PK] character varying (10)	panel_name character varying (20)	award_category character varying (20)

```
1  SELECT * FROM LOGIN
```

Data Output | Explain | Messages | Notifications

	username character varying (20)	password character varying (20)	category character varying (20)	id character varying (20)
1	Rahan	1	ADMIN	A1
2	Abhi	1	JURY	A2
3	Harvind	1	INVENTOR	A3

```
1  SELECT * FROM PANEL_JURY
```

Data Output | Explain | Messages | Notifications

	panel_id character varying (20)	jury_id character varying (10)

SWING

- A component is an independent visual control and Java Swing Framework contains a large set of these components which provide rich functionalities and allow high level of customization.
- They all are derived from JComponent class.
- All these components are lightweight components.
- This class provides some common functionality like pluggable look and feel, support for accessibility, drag and drop, layout, etc.
- A container holds a group of components.
- It provides a space where a component can be managed and displayed. Containers are of two types.

1. **Top level Containers**
    - It inherits Component and Container of AWT.
    - It cannot be contained within other containers.
    - Heavyweight.
    - **Example:** JFrame, JDialog.

2. **Lightweight Containers**
    - It inherits JComponent class.
    - It is a general purpose container.
    - It can be used to organize related components together.
    - **Example:** JPanel

JFrame:

- new JFrame(String title)make a new frame with optional title
- setVisible(true)make a frame appear on the screen
- add(Component comp) place the given component or container inside the frame
- setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE) make it so that the program exits when the frame is closed
- setSize(int width, int height) gives the frame a fixed size in pixels

JDialog

- new JDialog(Frame parent, String title, boolean modal)make a new JDialog with given parent and title. If modalis set, the parent will be locked until the dialog is closed
- JOptionPane.showMessageDialog(parent, message) static method to pop up a dialog with just a message and OK button
- JOptionPane.showConfirmDialog(parent, message) static method to pop up a dialog with a message and Yes and No buttons
- JOptionPane.showInputDialog(parent, message) static method to pop a dialog with a message and a textfield for entering information

JLabel

- new JLabel(String text)creates a new label with the given text
- getText()returns the text showing on the label
- setText()sets label's text JButton
- new JButton(String text) creates a new button with text
- getText()returns the text showing on the button
- setText(String text)sets button'stext
- new JTextArea(int lines, int columns) create a new text area with preferred size for the given number of lines and columns JTextField
- new JTextField(int columns)create a new field, the given number of columns wide.

Event:

- Event Object that contains detailed information about the event
- getSource() returns a reference to the object to which the event occurred

ActionEvent:

- getActionCommand() returns the command string associated with this action.
- getWhen()returns a timestamp of when this event occurred.

Listener:

- Listener Object that can be attached to a component to listen for events.
- Contains a method that is automatically called when an event occurs.

Swing JButton

- JButton class provides functionality of a button.
- It is used to create button component.

JTextField

- JTextField is used for taking input of single line of text. It is most widely used text component.

JCheckBox

- The JcheckBox class is used to create checkbox in swing framework.

JRadioButton

- Radio button is a group of related button in which only one can be selected.
- JRadioButton class is used to create a radio button in Frames.

JComboBox

- Combo box is a combination of text fields and drop-down list.
- JComboBox component is used to create a combo box in Swing.

JLabel

- In Java, Swingtoolkit contains a JLabel Class.
- It is under package javax.swing.JLabel class.
- It is used for placing text in a box.
- Only Single line text is allowed and the text cannot be changed directly.

JTextArea

- In Java, Swing toolkit contains a JTextArea Class.
- It is under package javax.swing.JTextArea class.
- It is used for displaying multiple-line text.

JPasswordField

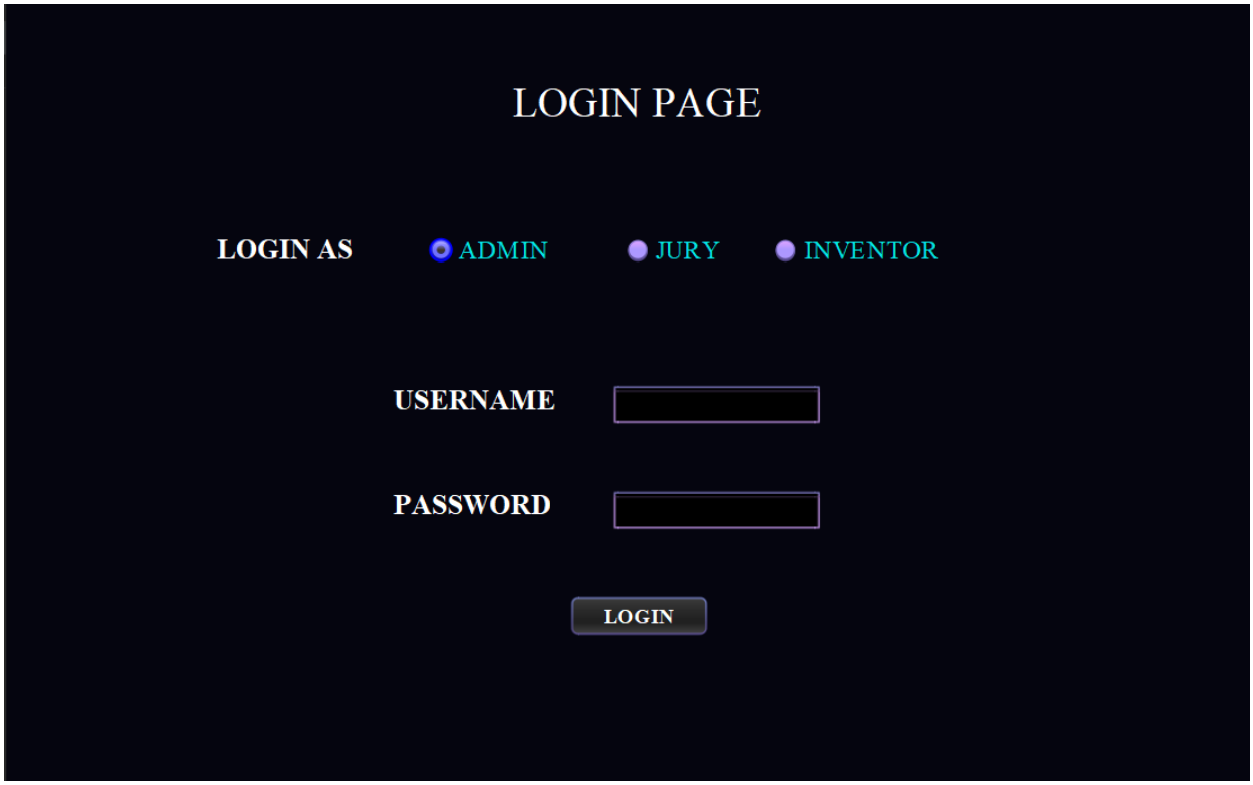
- In Java, Swing toolkit contains a JPasswordField Class.
- It is under package javax.swing.JPasswordField class.
- It is specifically used for password and it can be edited.

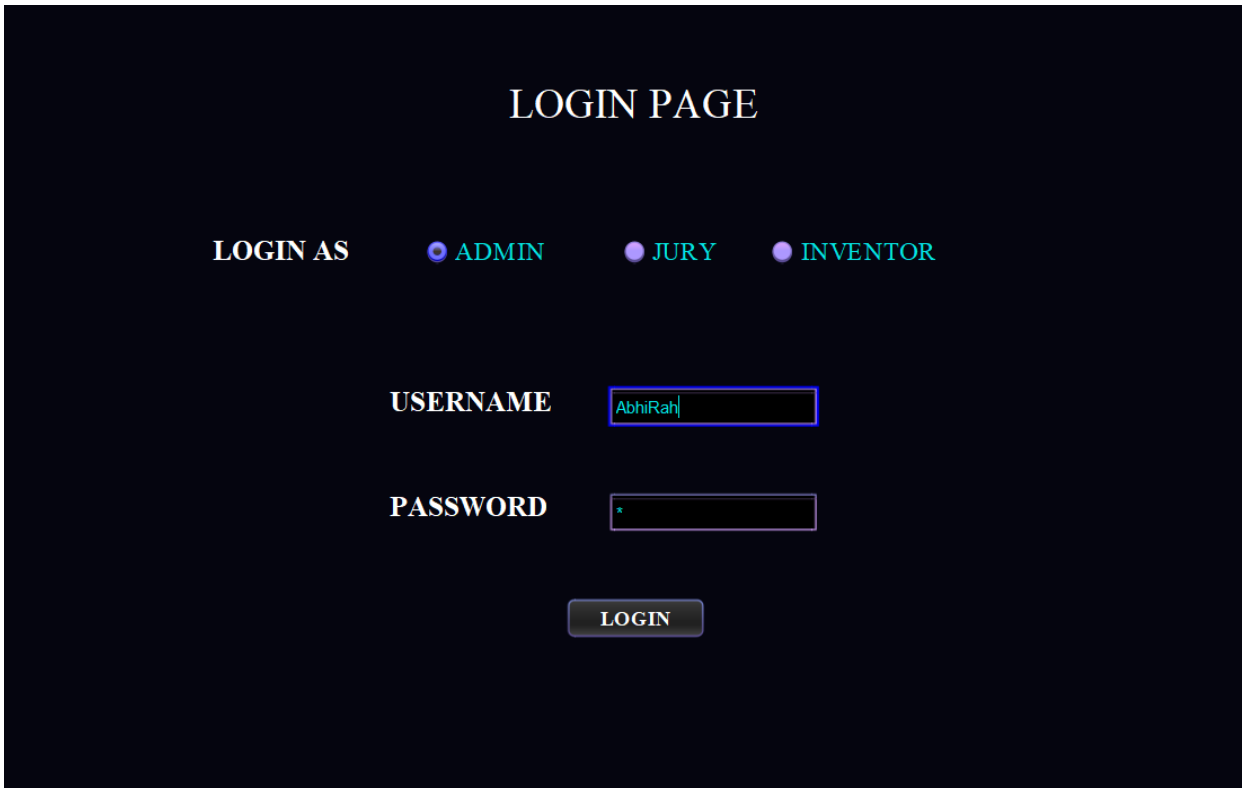
JTable

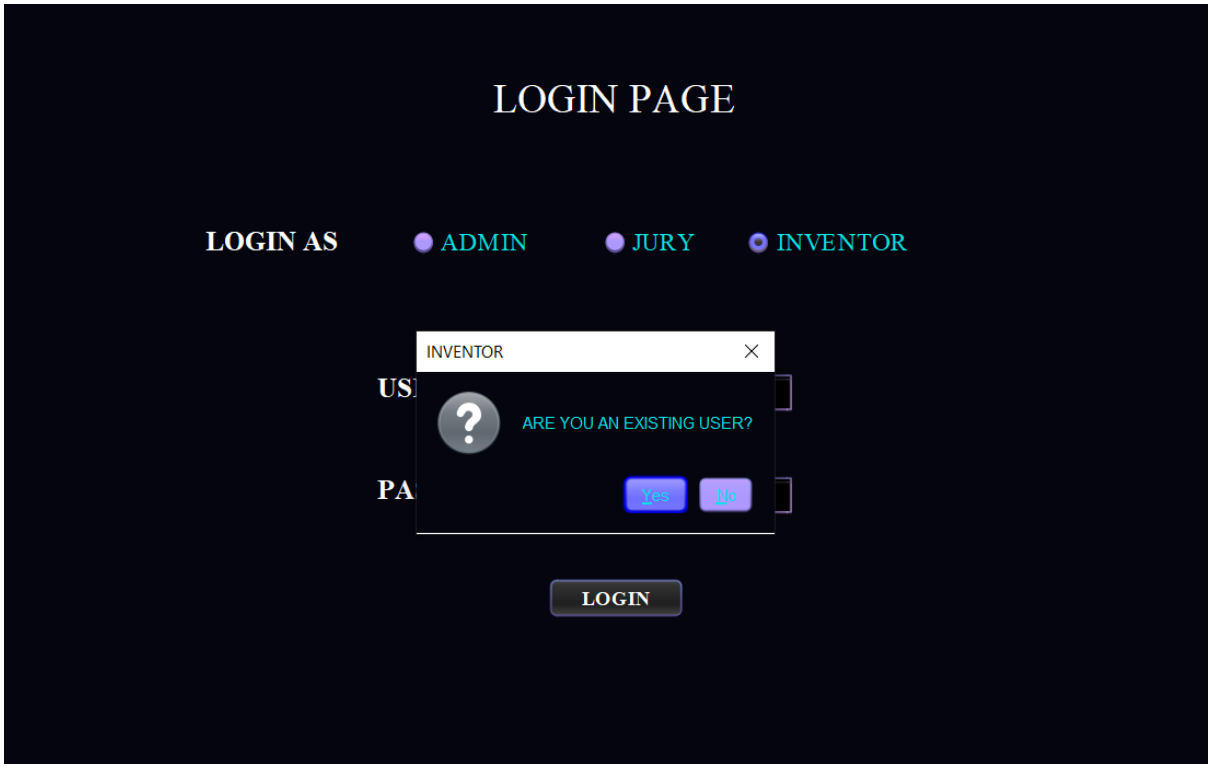
- In Java, Swing toolkit contains a JTable Class.
- It is under package javax.swing.JTable class.
- It used to draw a table to display data.

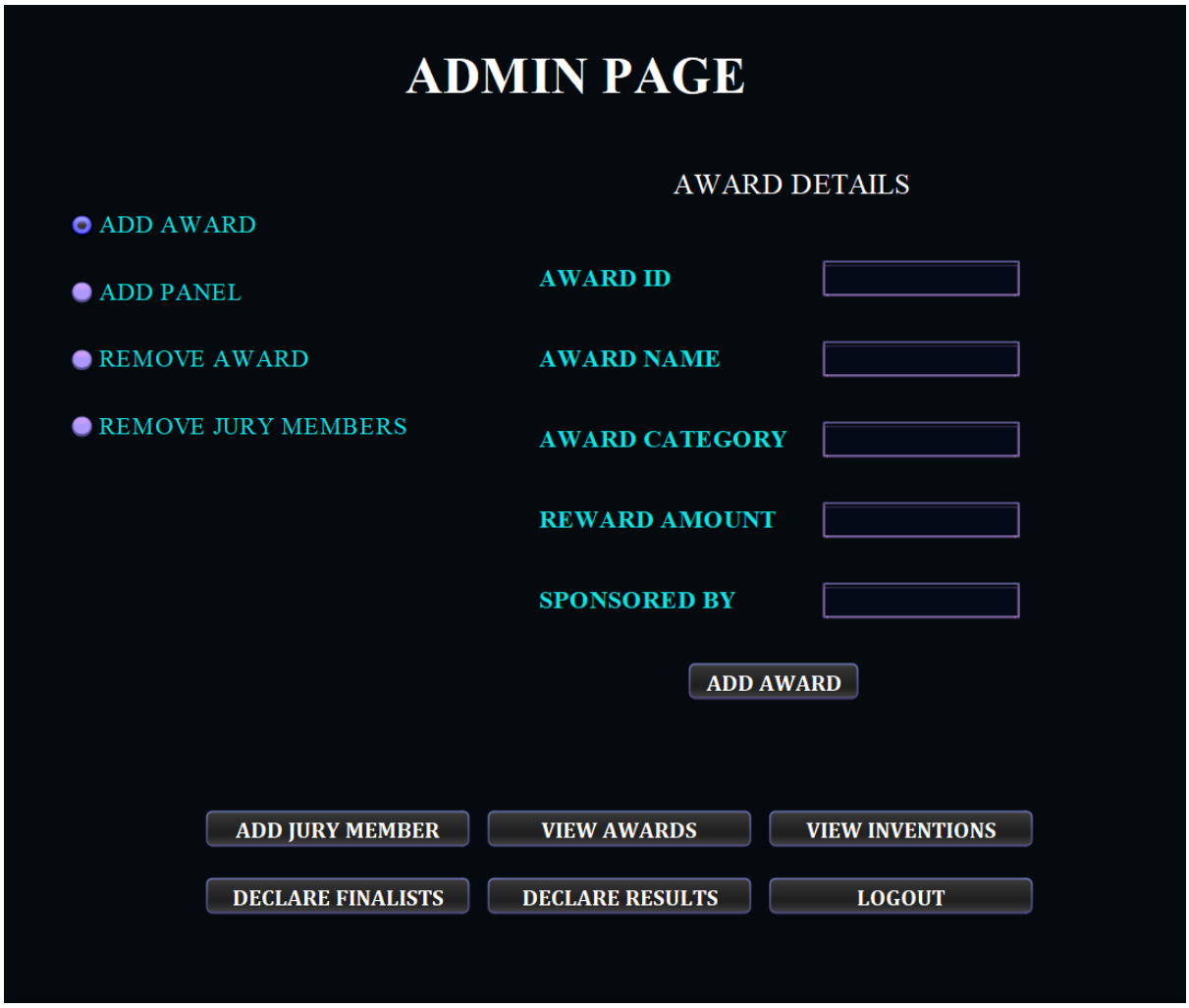
JList

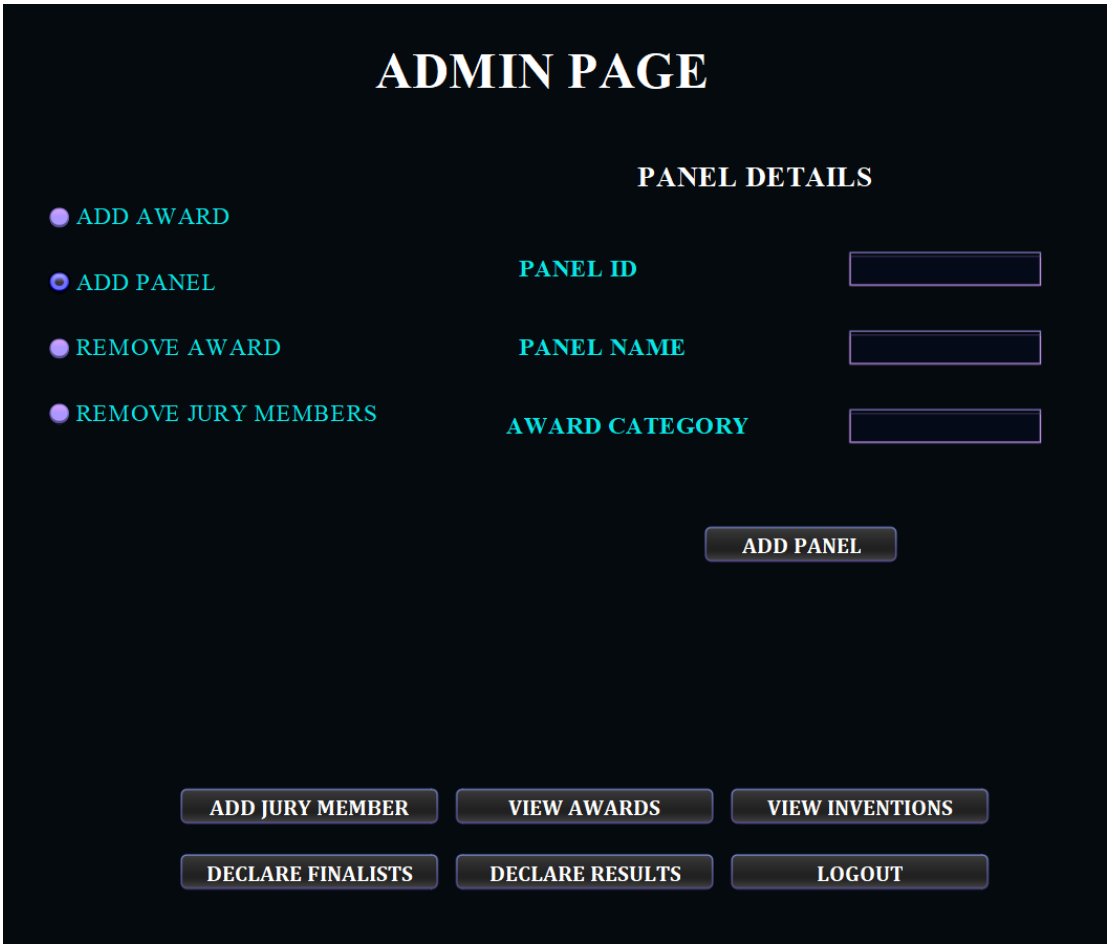
- In Java, Swing toolkit contains a JList Class.
- It is under package javax.swing.JList class.
- It is used to represent a list of items together.
- One or more than one item can be selected from the list.

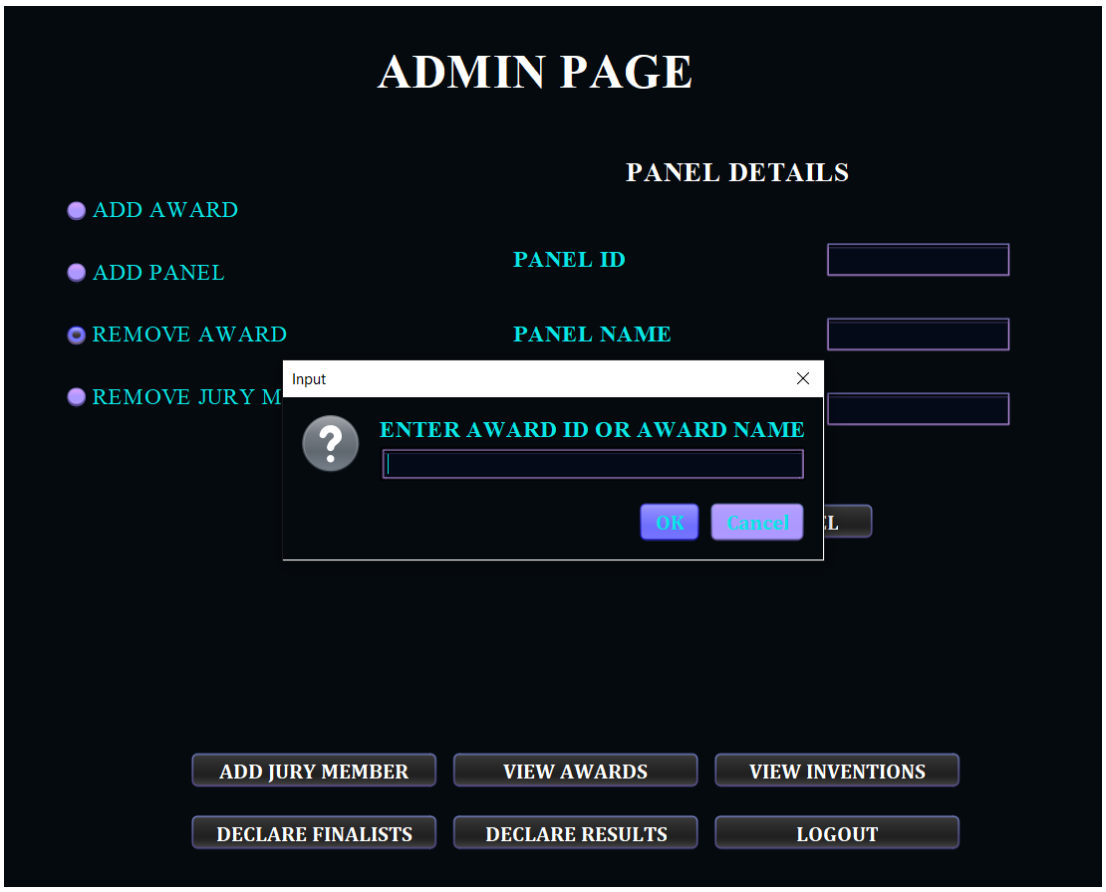

LOGIN PAGE
LOGIN AS
ADMIN
JURY
INVENTOR
USERNAME
PASSWORD
LOGIN

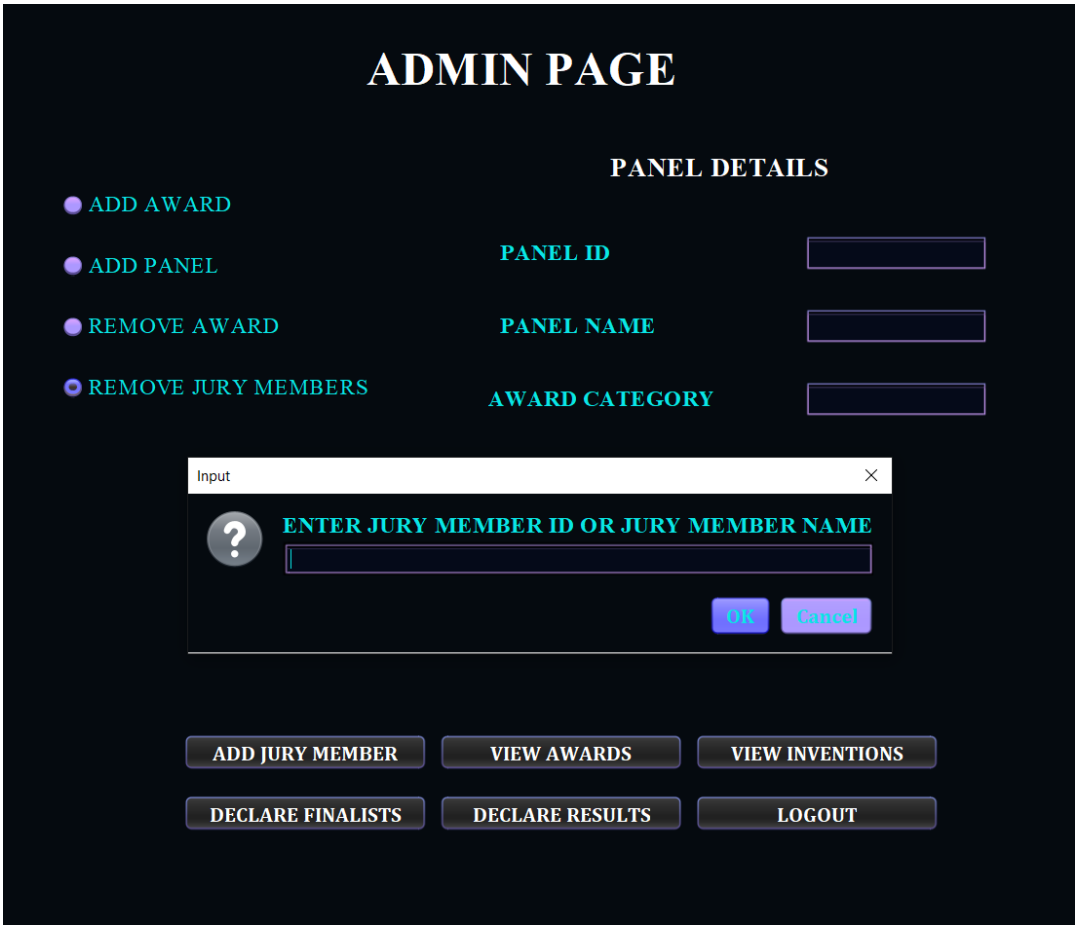

LOGIN PAGE
LOGIN AS
ADMIN
JURY
INVENTOR
USERNAME
AbhiRah
PASSWORD
*
LOGIN

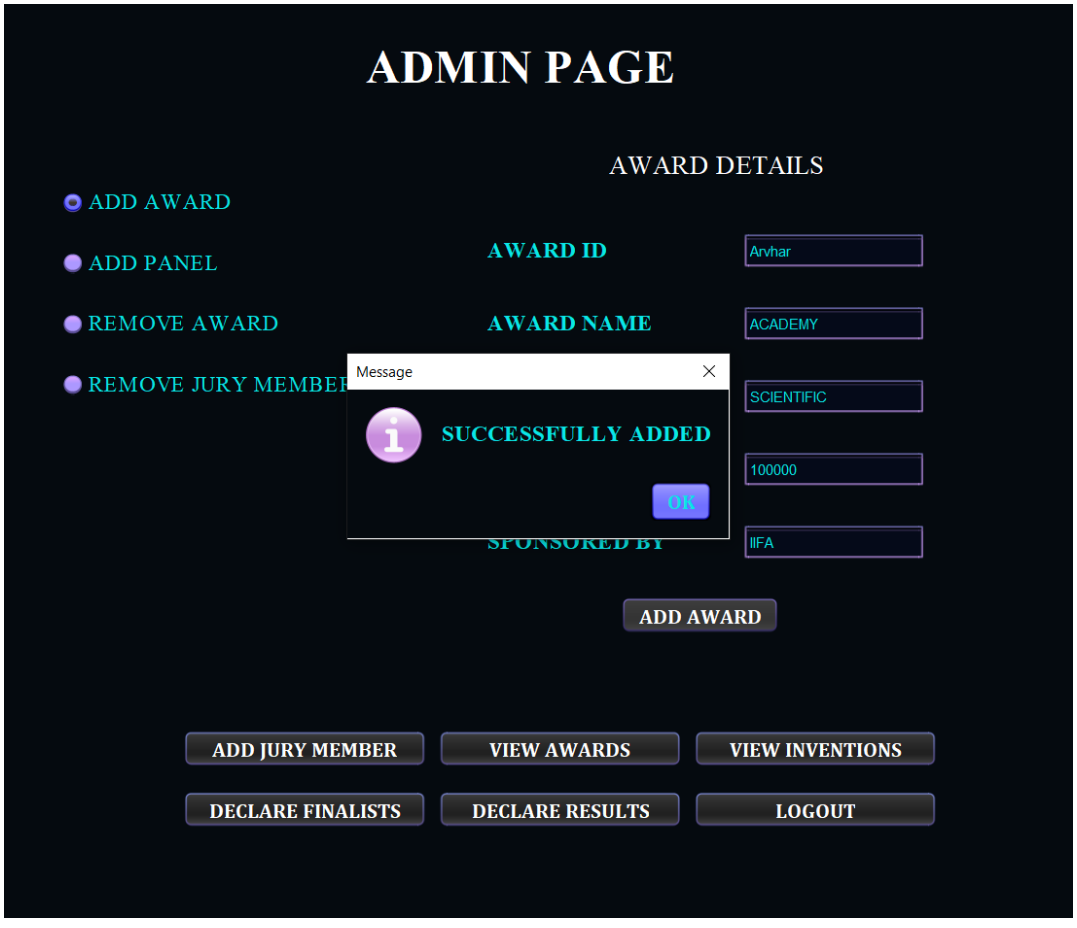

LOGIN PAGE
LOGIN AS
ADMIN
JURY
INVENTOR
INVENTOR
ARE YOU AN EXISTING USER?
Yes
No
LOGIN

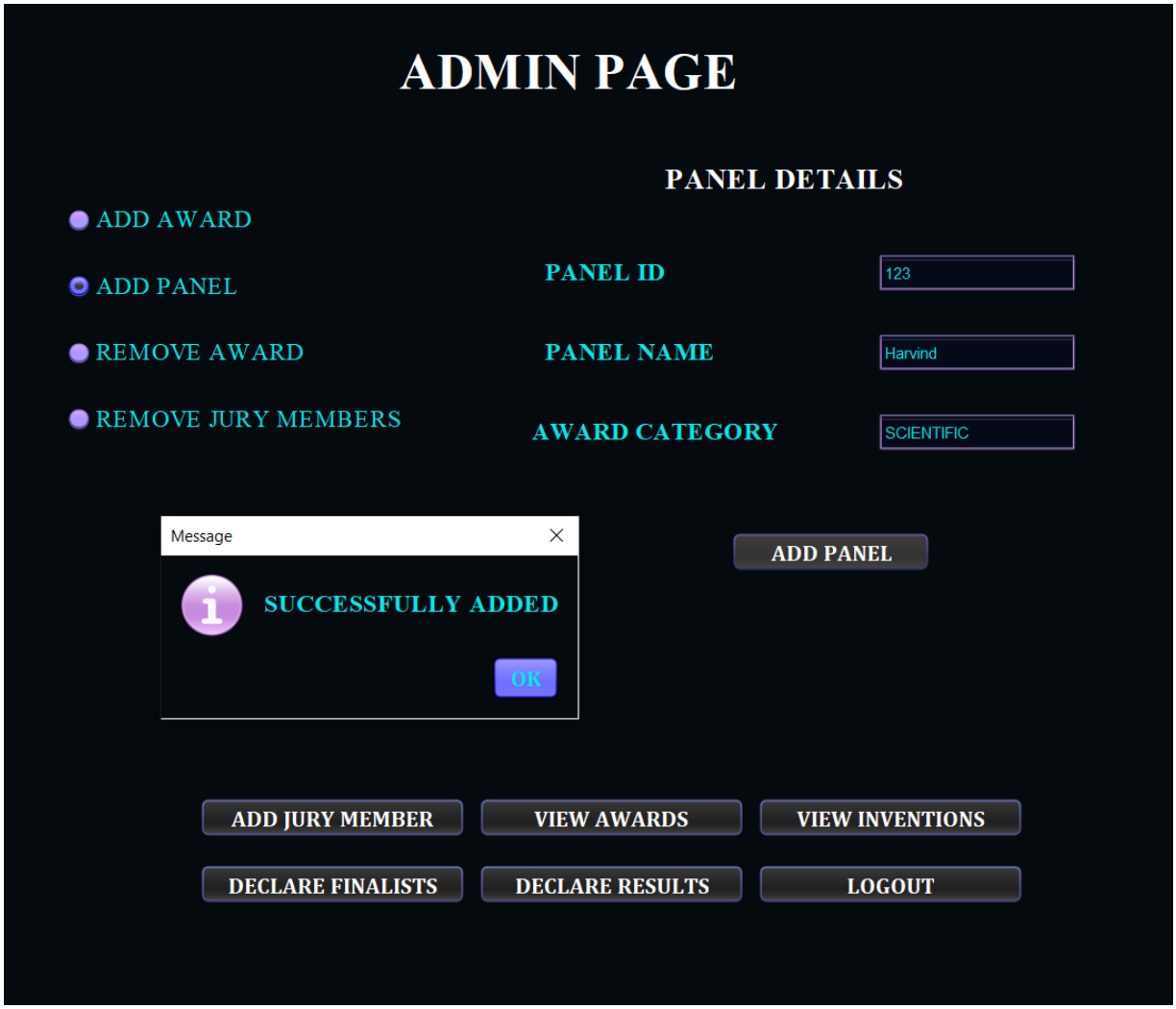

ADMIN PAGE
AWARD DETAILS
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JURY MEMBERS
AWARD ID
AWARD NAME
AWARD CATEGORY
REWARD AMOUNT
SPONSORED BY
ADD AWARD
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE FINALISTS
DECLARE RESULTS
LOGOUT

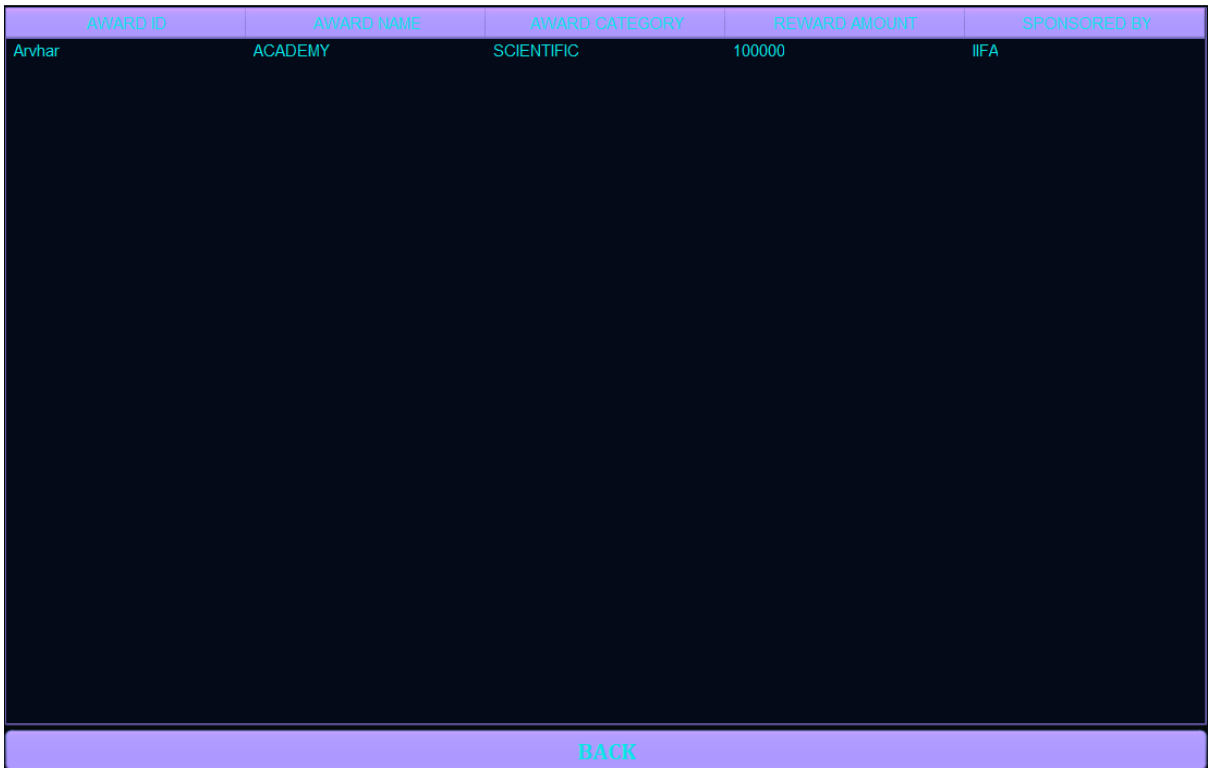

ADMIN PAGE
PANEL DETAILS
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JURY MEMBERS
PANEL ID
PANEL NAME
AWARD CATEGORY
ADD PANEL
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE FINALISTS
DECLARE RESULTS
LOGOUT


ADMIN PAGE
PANEL DETAILS
ADD AWARD
ADD PANEL
REMOVE AWARD
PANEL ID
PANEL NAME
Input
ENTER AWARD ID OR AWARD NAME
OK
Cancel
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE FINALISTS
DECLARE RESULTS
LOGOUT


ADMIN PAGE
PANEL DETAILS
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JURY MEMBERS
PANEL ID
PANEL NAME
AWARD CATEGORY
Input
ENTER JURY MEMBER ID OR JURY MEMBER NAME
OK
Cancel
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE FINALISTS
DECLARE RESULTS
LOGOUT


ADMIN PAGE
AWARD DETAILS
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JURY MEMBER
AWARD ID
AWARD NAME
Arvhar
ACADEMY
SCIENTIFIC
100000
IIFA
Message
SUCCESSFULLY ADDED
OK
ADD AWARD
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE FINALISTS
DECLARE RESULTS
LOGOUT


ADMIN PAGE
PANEL DETAILS
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JURY MEMBERS
PANEL ID
123
PANEL NAME
Harvind
AWARD CATEGORY
SCIENTIFIC
Message
SUCCESSFULLY ADDED
OK
ADD PANEL
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE FINALISTS
DECLARE RESULTS
LOGOUT


AWARD ID
AWARD NAME
AWARD CATEGORY
REWARD AMOUNT
SPONSORED BY
Arvhar
ACADEMY
SCIENTIFIC
100000
IIFA
BACK

INVENTION ID	INVENTION NAME	AWARD CATEGORY	YEAR OF INVENTION	STORY BEHIND
1	PAYPAL		2010	MAKING ONLINE PAYMENT
12	ELECTICITY		2020	LIGHT THE WORLD

BACK

ADMIN PAGE

- ADD AWARD
- ADD PANEL
- REMOVE AWARD
- REMOVE JUR

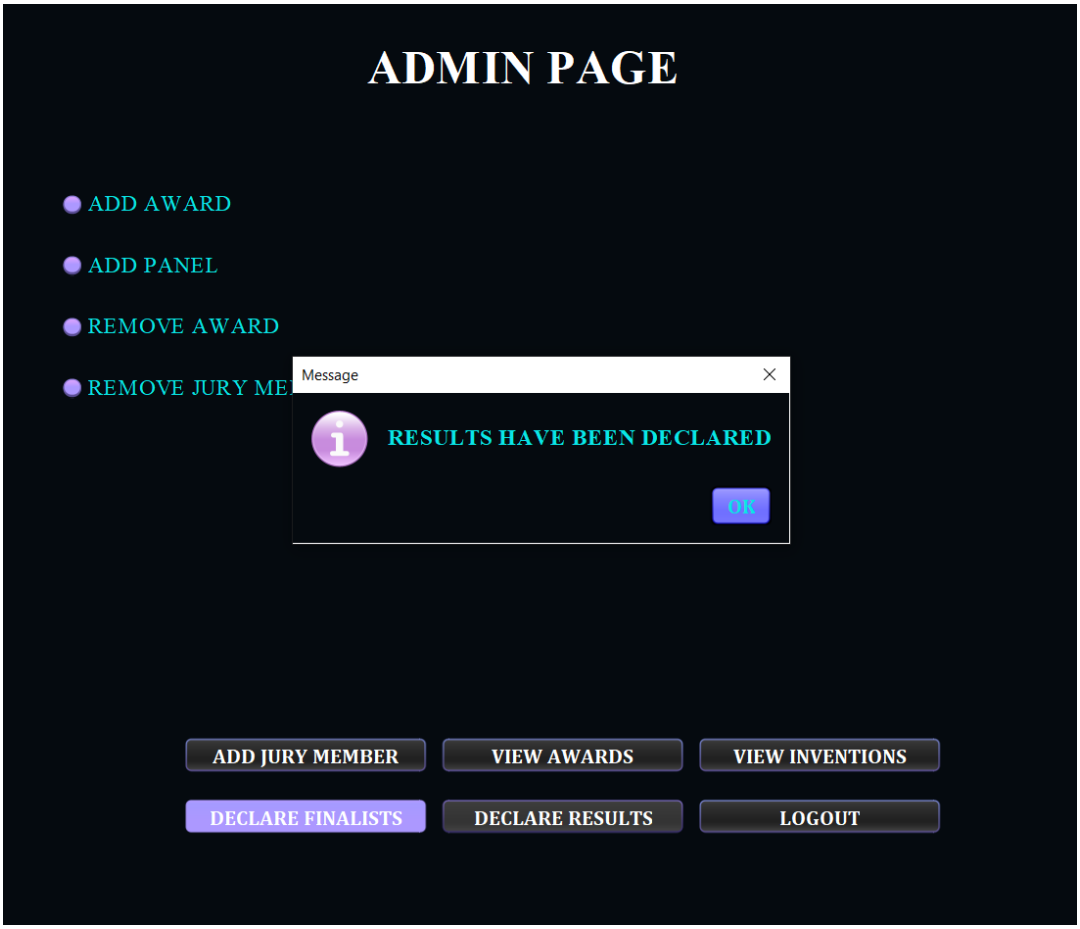
Message

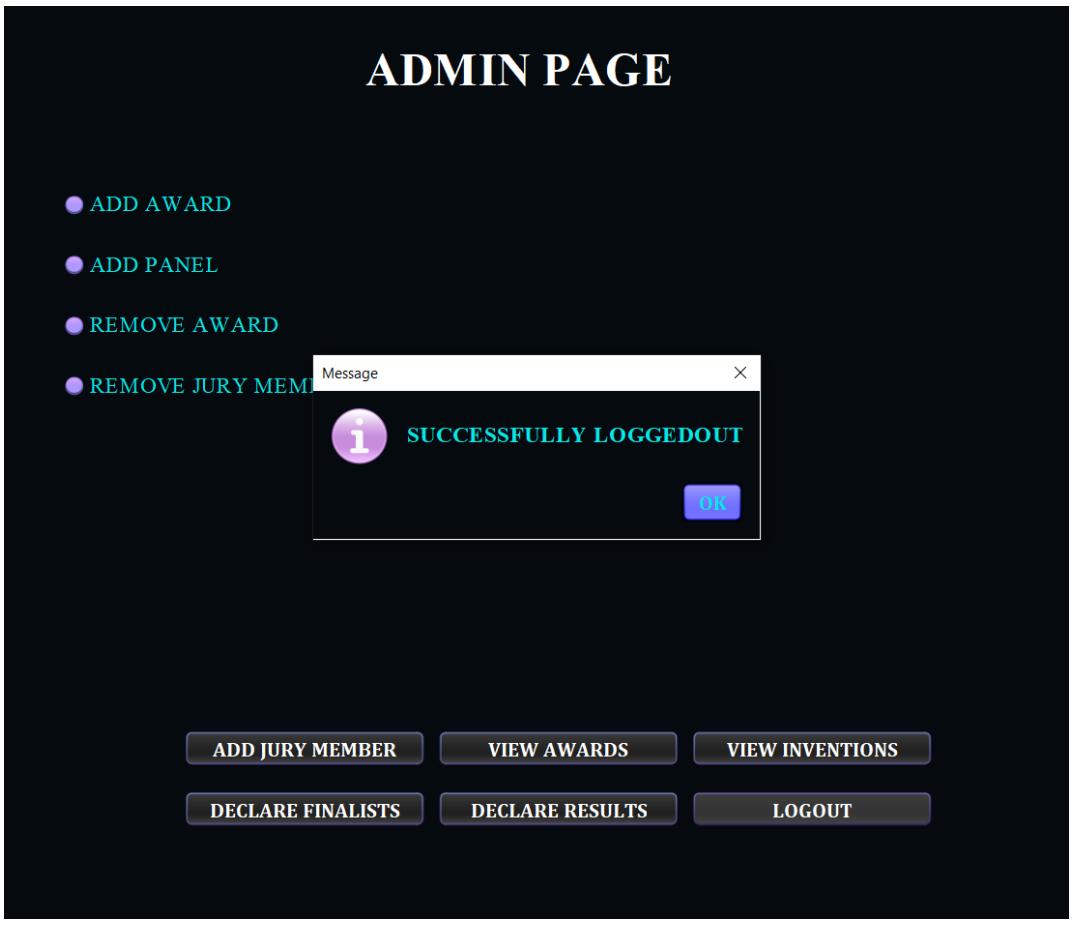
FINAL NOMINATION HAVE BEEN DECLARED

OK

ADD JURY MEMBER | VIEW AWARDS | VIEW INVENTIONS

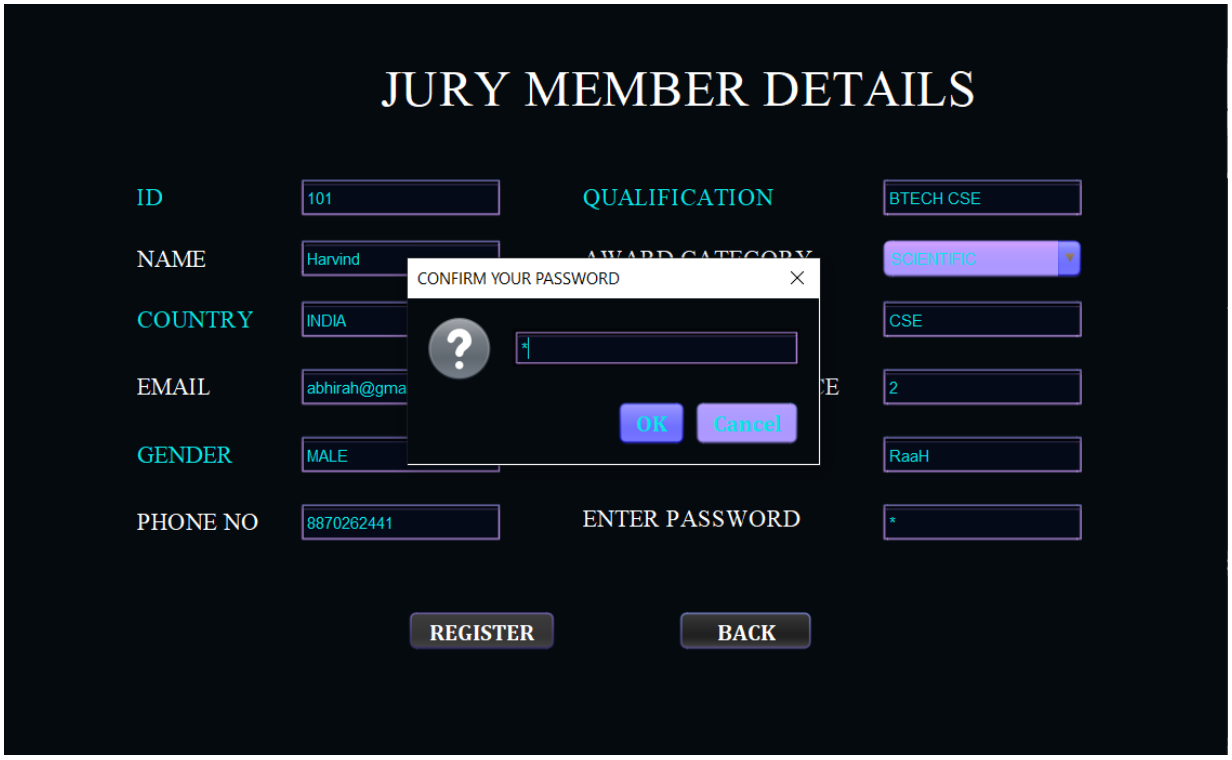
DECLARE FINALISTS | DECLARE RESULTS | LOGOUT

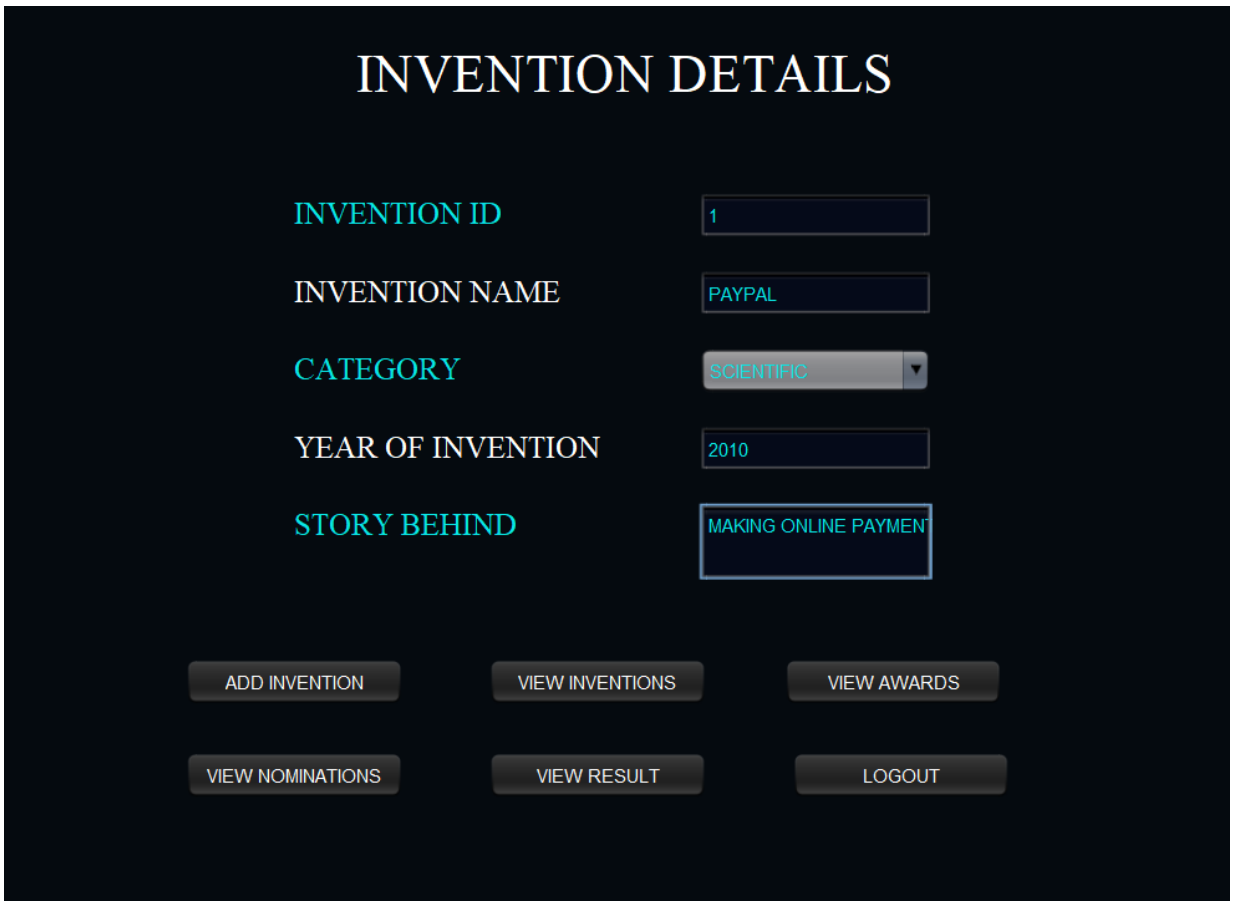

ADMIN PAGE
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JURY ME
Message
RESULTS HAVE BEEN DECLARED
OK
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE FINALISTS
DECLARE RESULTS
LOGOUT

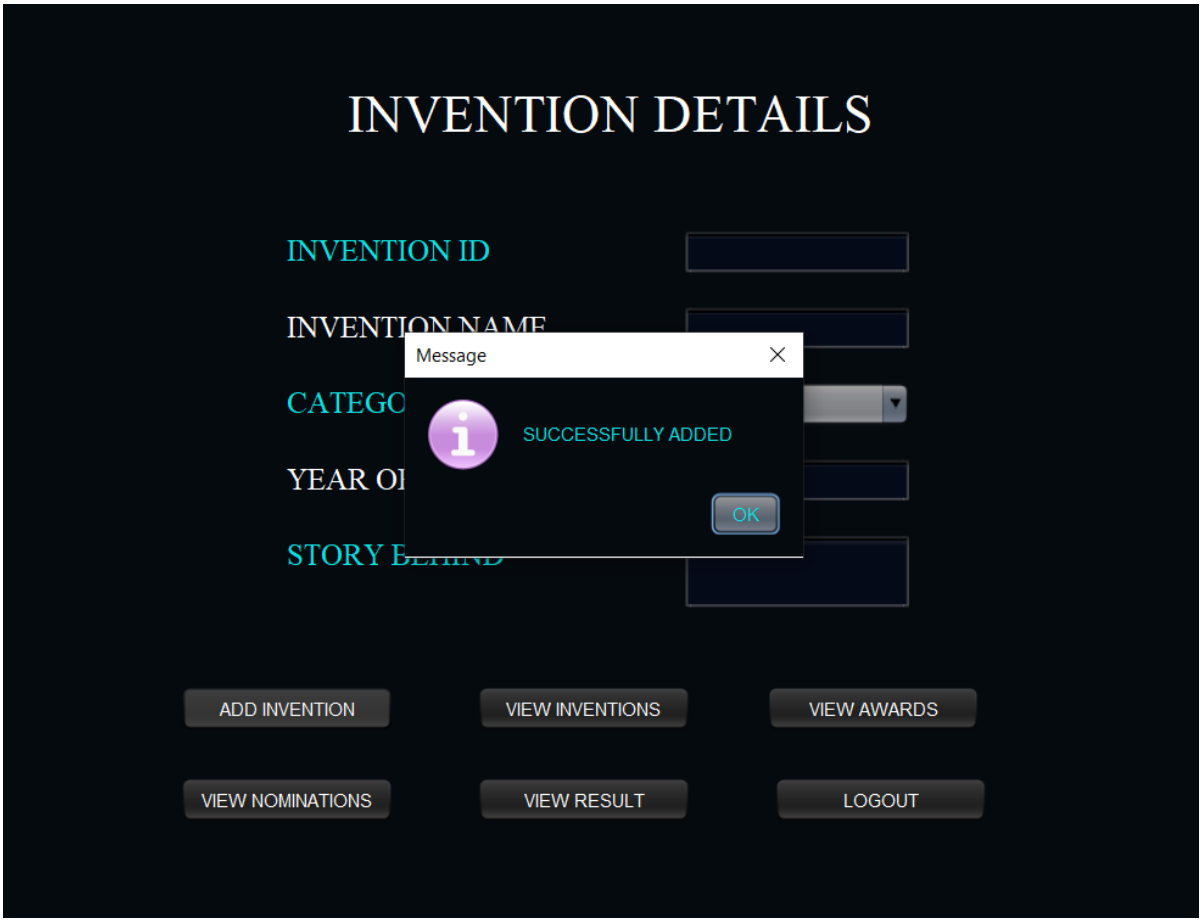

ADMIN PAGE
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JURY MEM
Message
SUCCESSFULLY LOGGEDOUT
OK
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE FINALISTS
DECLARE RESULTS
LOGOUT

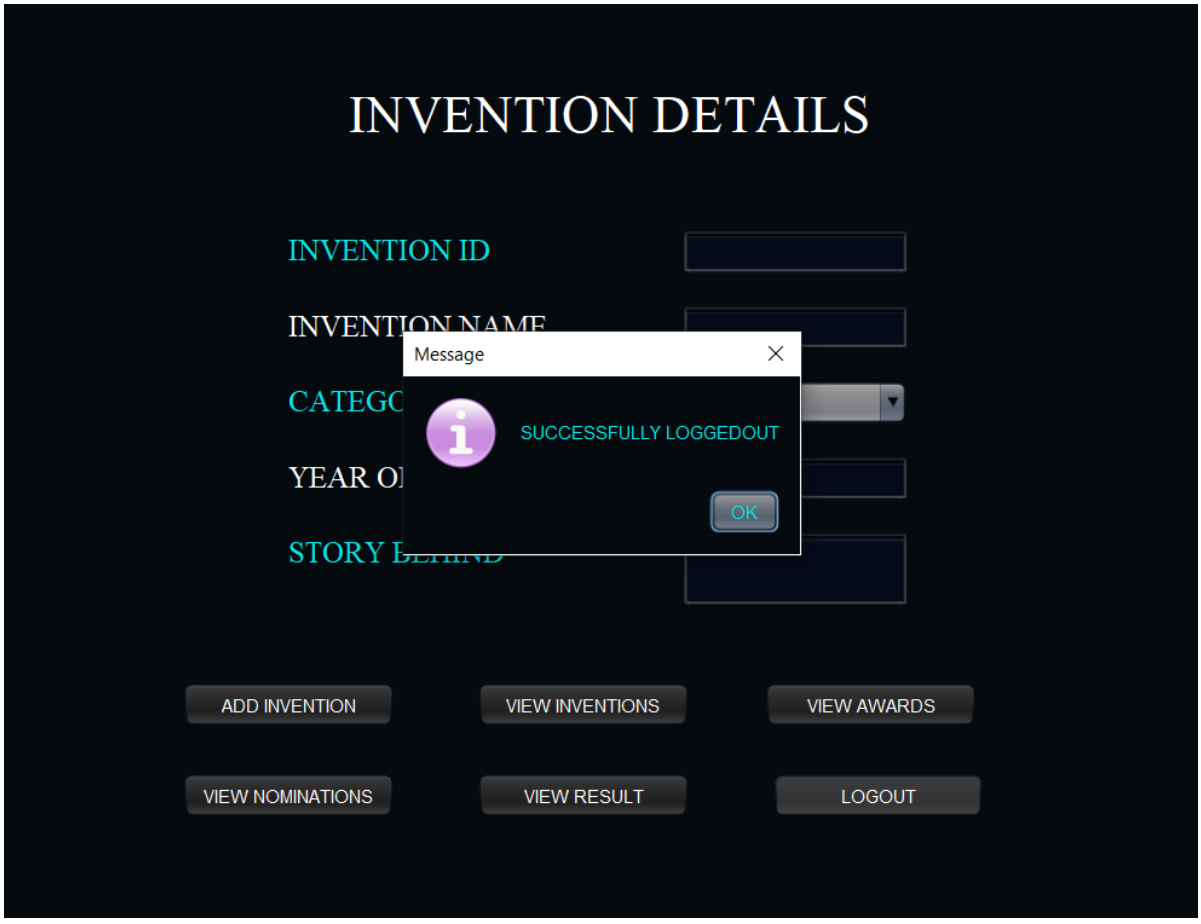

INVENTOR DETAILS
ID
NAME
COUNTRY
EMAIL
GENDER
PHONE NO
QUALIFICATION
JOB TYPE
SPECIALIZATION
YEAR OF EXPERIENCE
ENTER USERNAME
ENTER PASSWORD
REGISTER
BACK

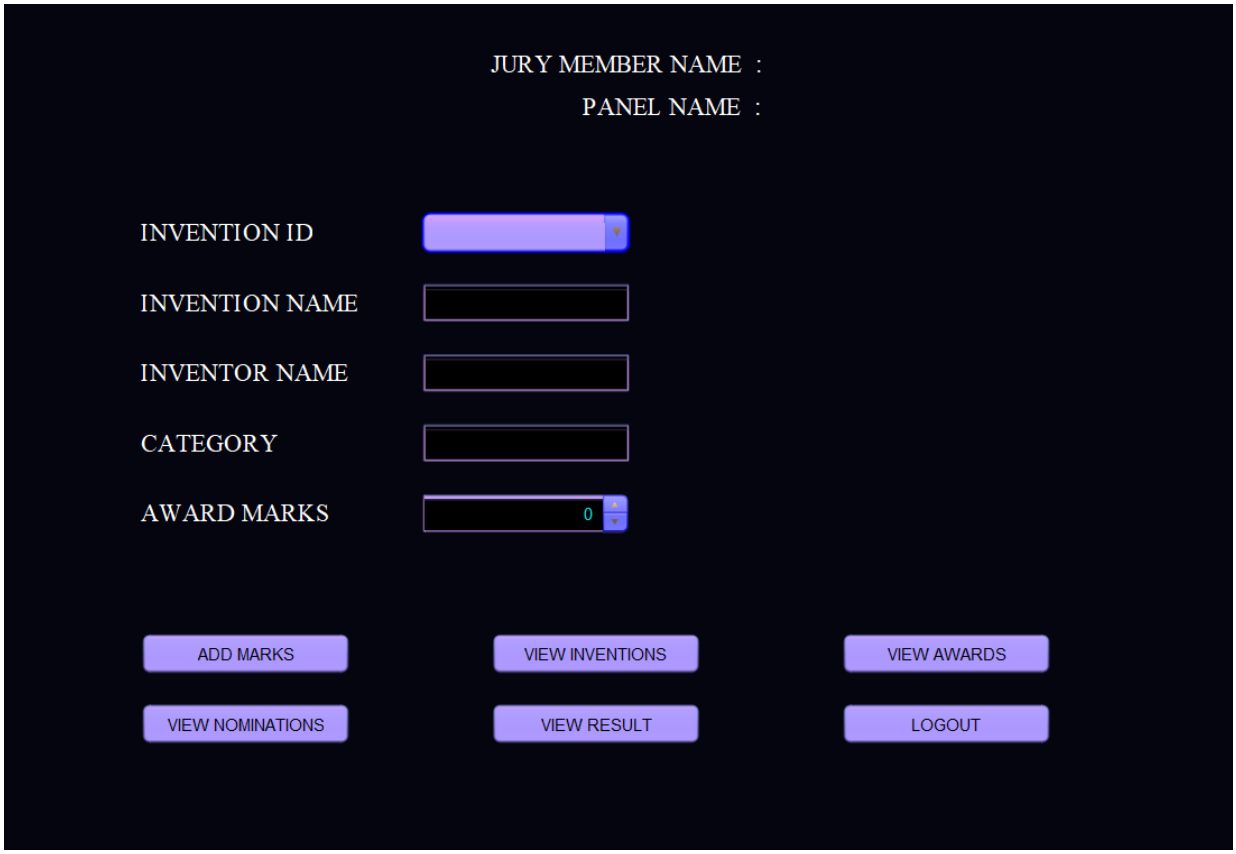

INVENTOR DETAILS
ID
NAME
COUNTRY
EMAIL
GENDER
PHONE NO
QUALIFICATION
ENTER PASSWORD
INCORRECT
INCORRECT PASSWORD
OK
REGISTER
BACK


JURY MEMBER DETAILS
ID
101
QUALIFICATION
BTECH CSE
NAME
Harvind
SCIENTIFIC
CONFIRM YOUR PASSWORD
COUNTRY
INDIA
CSE
EMAIL
abhirah@gma
2
OK
Cancel
GENDER
MALE
RaaH
PHONE NO
8870262441
ENTER PASSWORD
REGISTER
BACK

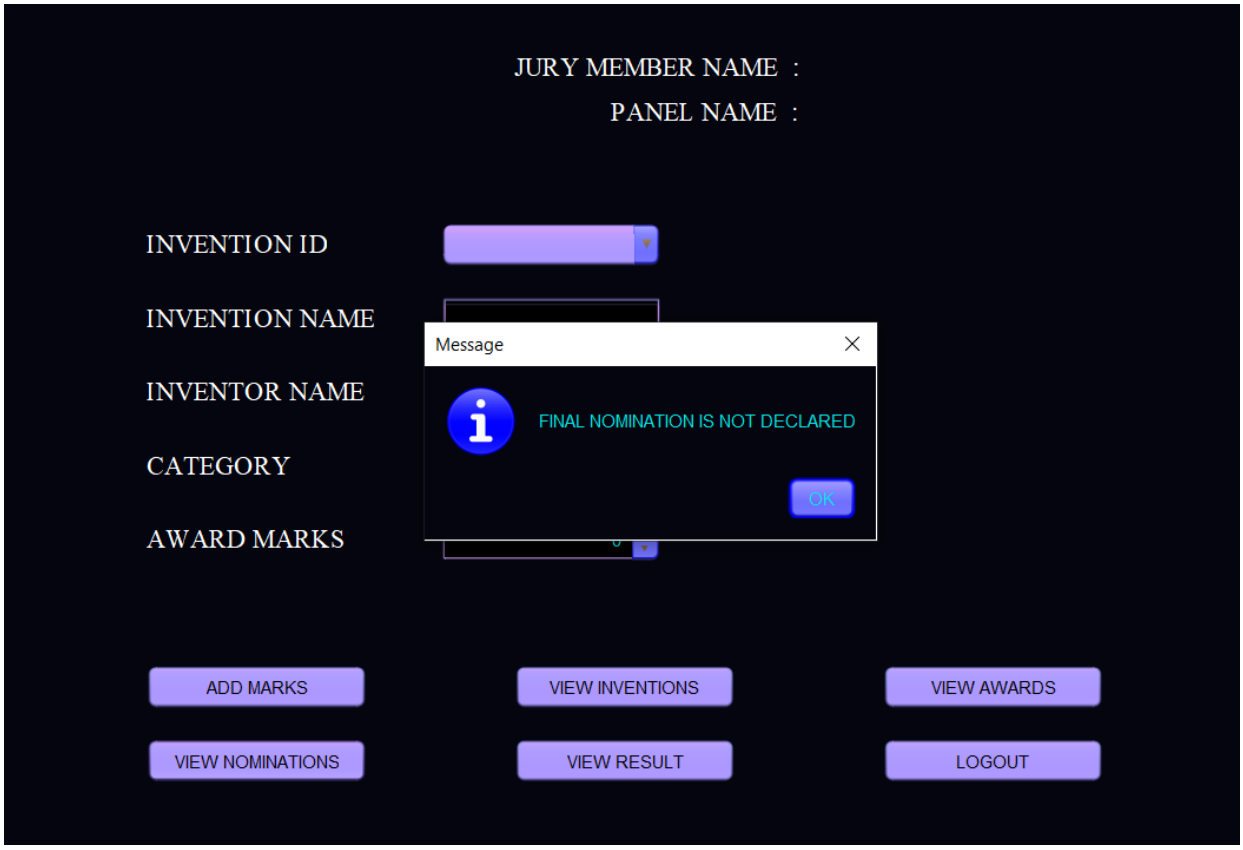

INVENTION DETAILS
INVENTION ID
1
INVENTION NAME
PAYPAL
CATEGORY
SCIENTIFIC
YEAR OF INVENTION
2010
STORY BEHIND
MAKING ONLINE PAYMENT
ADD INVENTION
VIEW INVENTIONS
VIEW AWARDS
VIEW NOMINATIONS
VIEW RESULT
LOGOUT

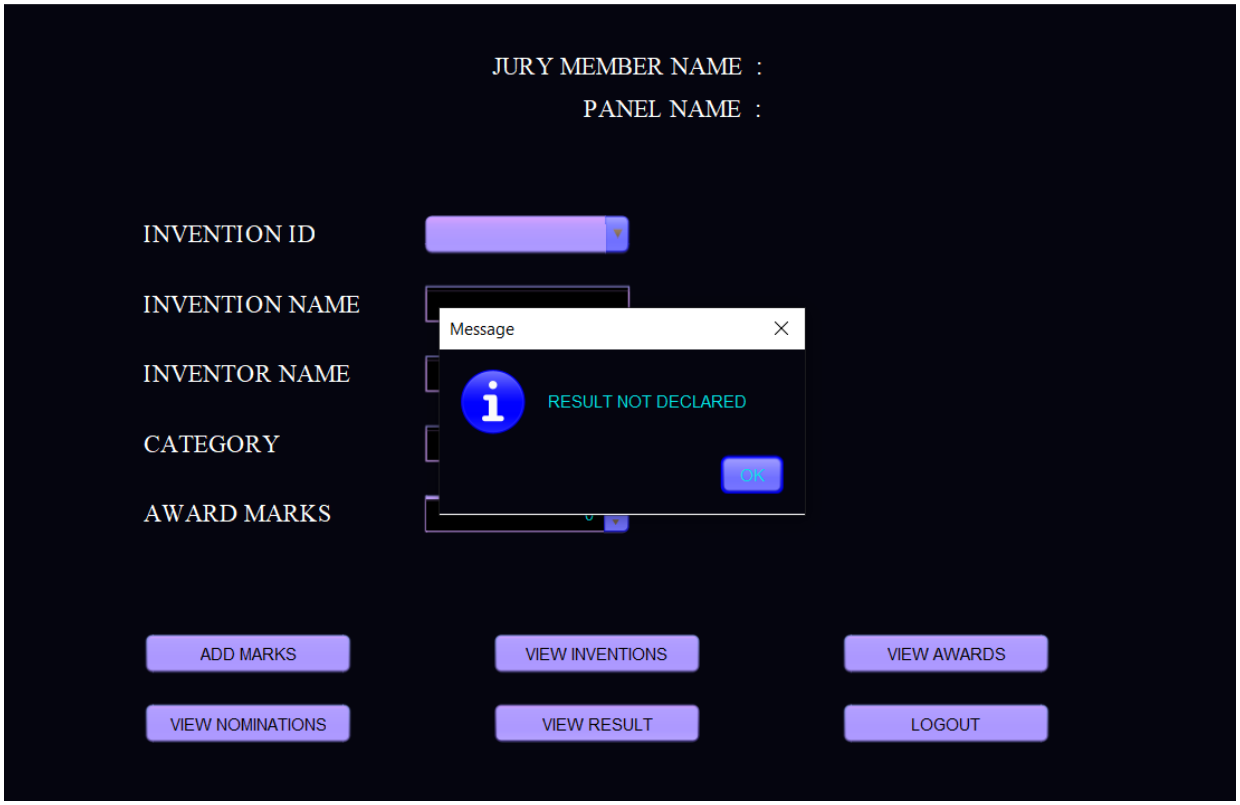

INVENTION DETAILS
INVENTION ID
Message
SUCCESSFULLY ADDED
OK
ADD INVENTION
VIEW INVENTIONS
VIEW AWARDS
VIEW NOMINATIONS
VIEW RESULT
LOGOUT

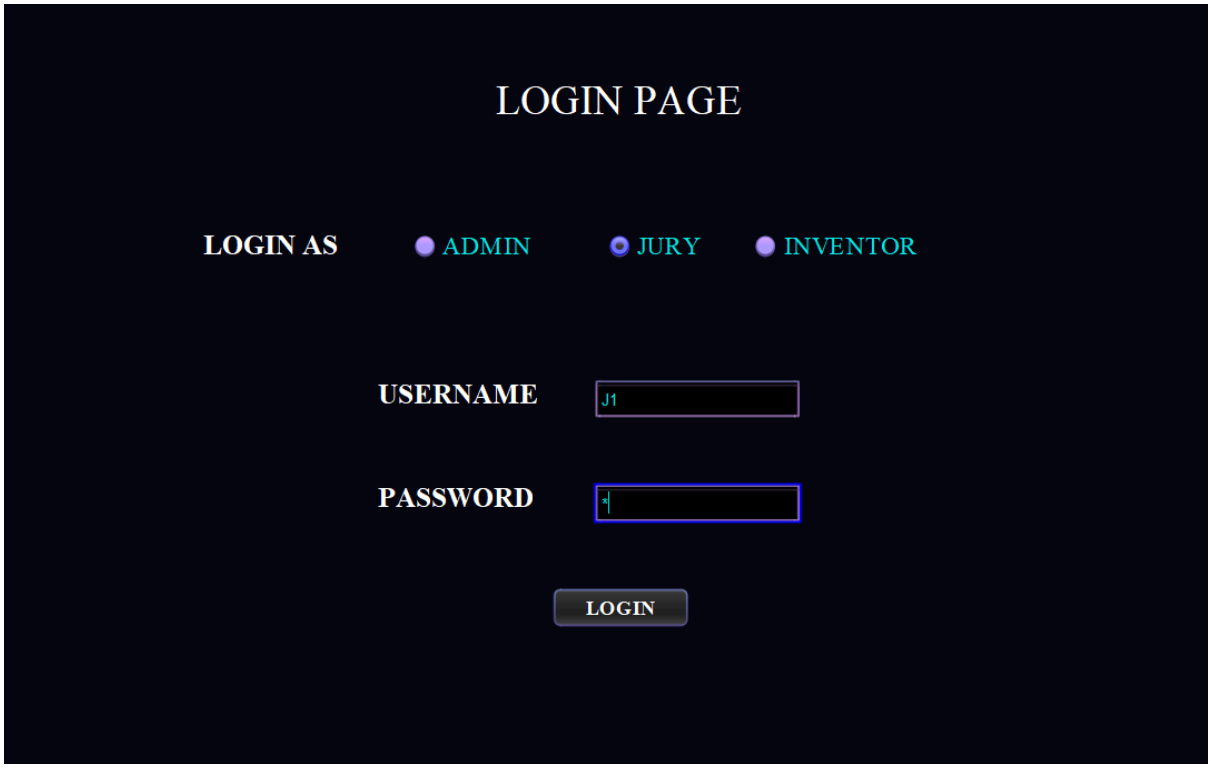

INVENTION DETAILS
INVENTION ID
Message
SUCCESSFULLY LOGGEDOUT
OK
ADD INVENTION
VIEW INVENTIONS
VIEW AWARDS
VIEW NOMINATIONS
VIEW RESULT
LOGOUT

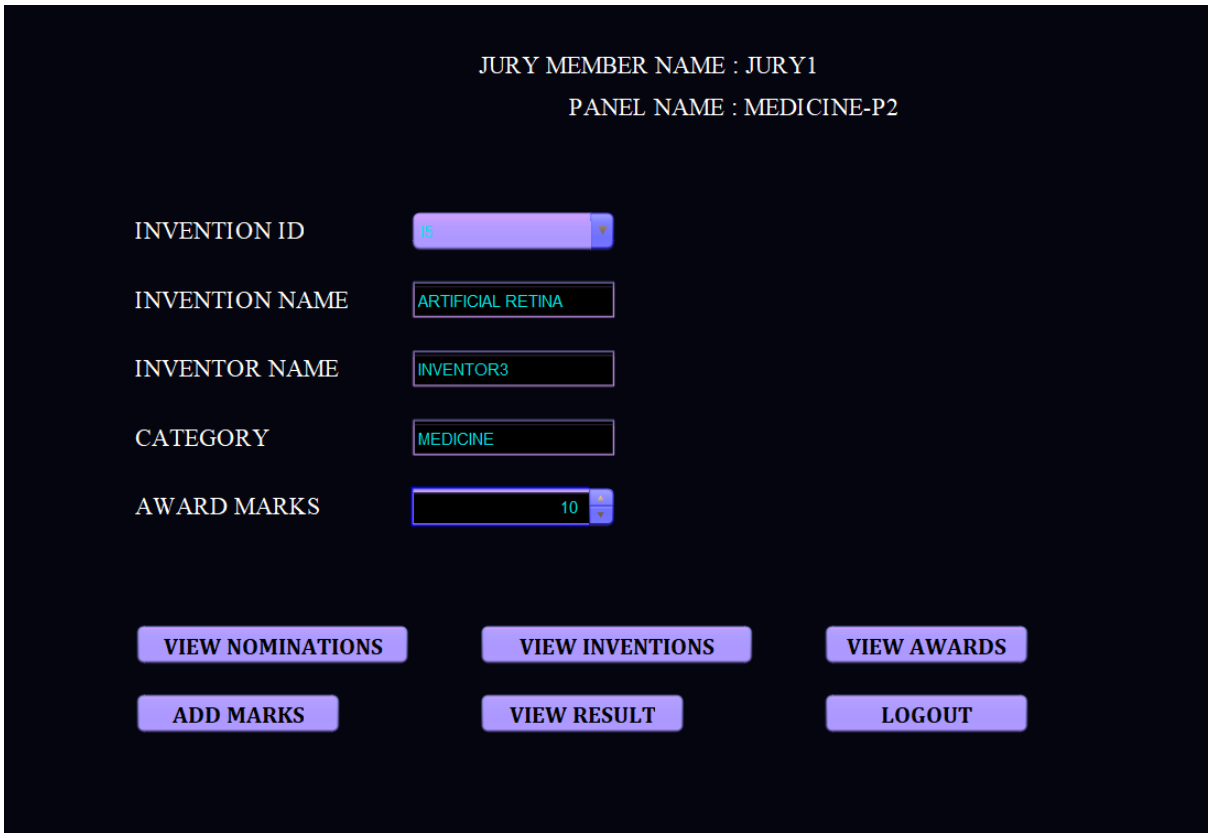

JURY MEMBER NAME :
PANEL NAME :
INVENTION ID
INVENTION NAME
INVENTOR NAME
CATEGORY
AWARD MARKS
0
ADD MARKS
VIEW INVENTIONS
VIEW AWARDS
VIEW NOMINATIONS
VIEW RESULT
LOGOUT


INVENTION ID
INVENTION NAME
AWARD CATEGORY
YEAR OF INVENTION
STORY BEHIND
1 PAYPAL 2010 MAKING ONLINE PAYMENT
12 ELECTICITY 2020 LIGHT THE WORLD
2 PAYPAL SCIENTIFIC 2010 MAKING ONLINE PAYMENT
BACK

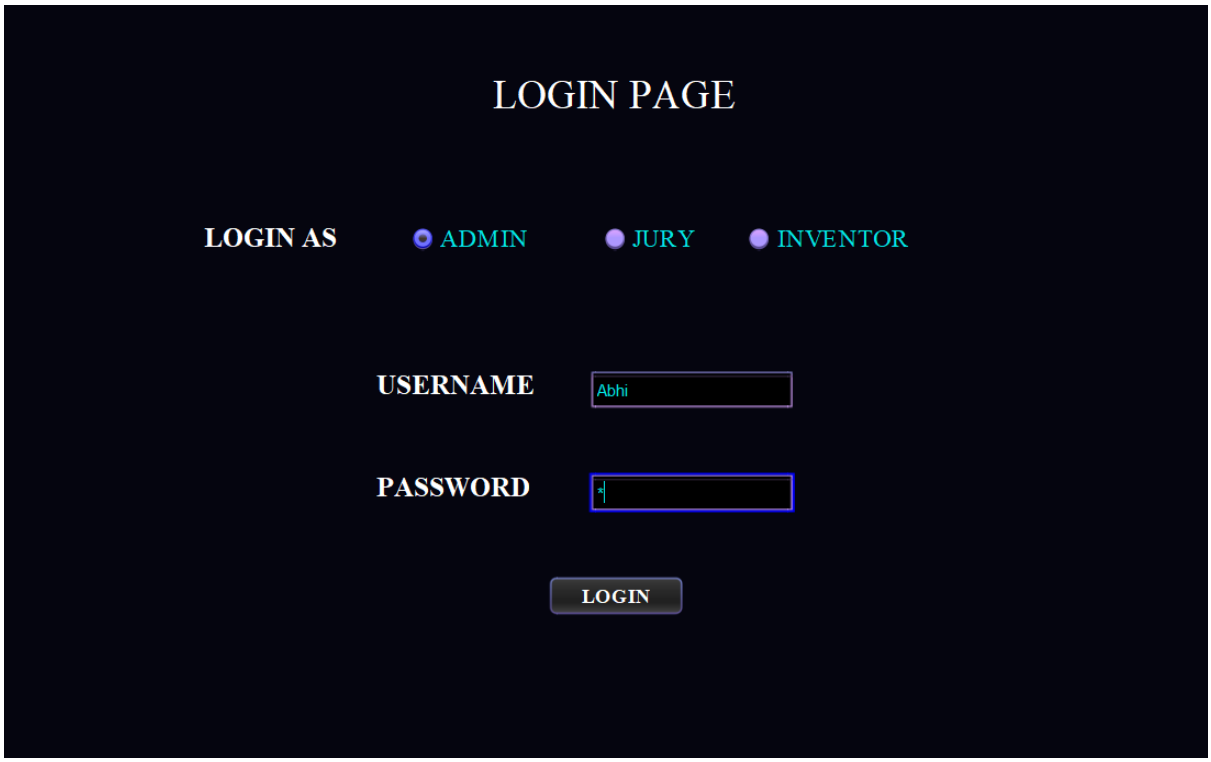

JURY MEMBER NAME :
PANEL NAME :
INVENTION ID
INVENTION NAME
INVENTOR NAME
CATEGORY
AWARD MARKS
Message
FINAL NOMINATION IS NOT DECLARED
OK
ADD MARKS
VIEW INVENTIONS
VIEW AWARDS
VIEW NOMINATIONS
VIEW RESULT
LOGOUT

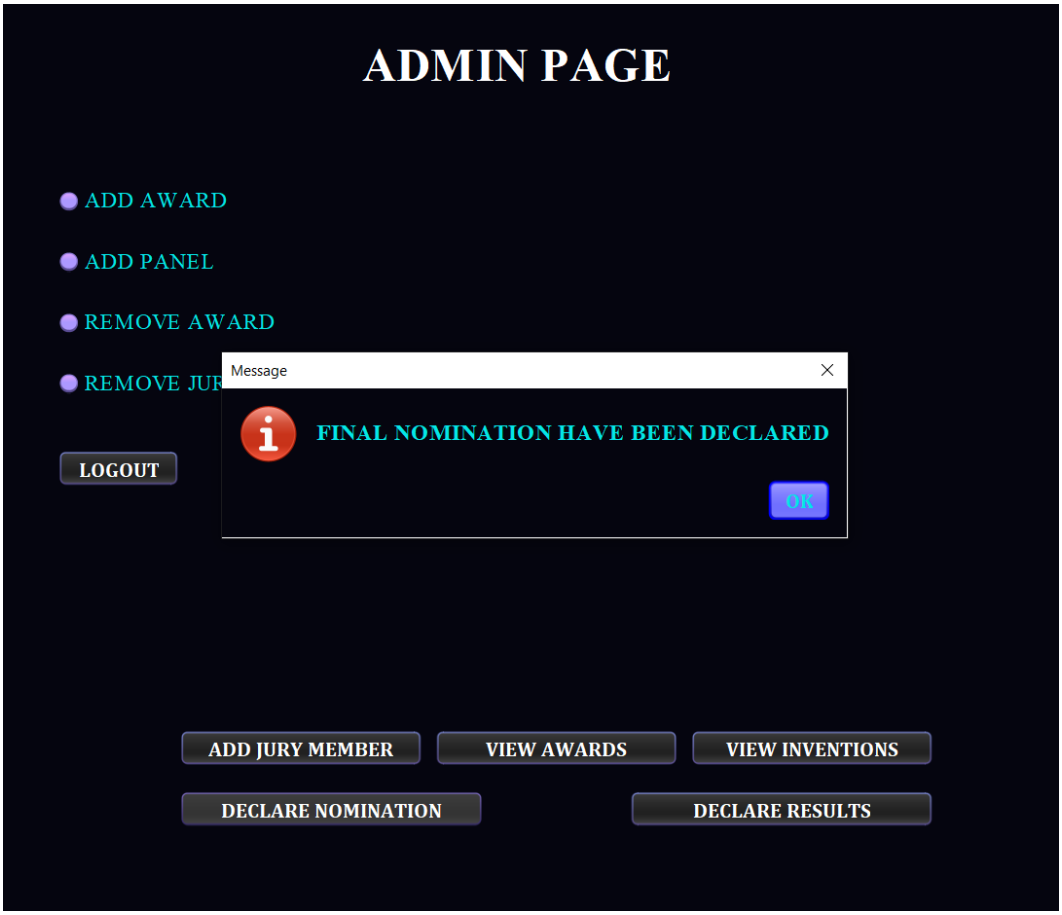

JURY MEMBER NAME :
PANEL NAME :
INVENTION ID
INVENTION NAME
INVENTOR NAME
CATEGORY
AWARD MARKS
Message
RESULT NOT DECLARED
OK
ADD MARKS
VIEW INVENTIONS
VIEW AWARDS
VIEW NOMINATIONS
VIEW RESULT
LOGOUT

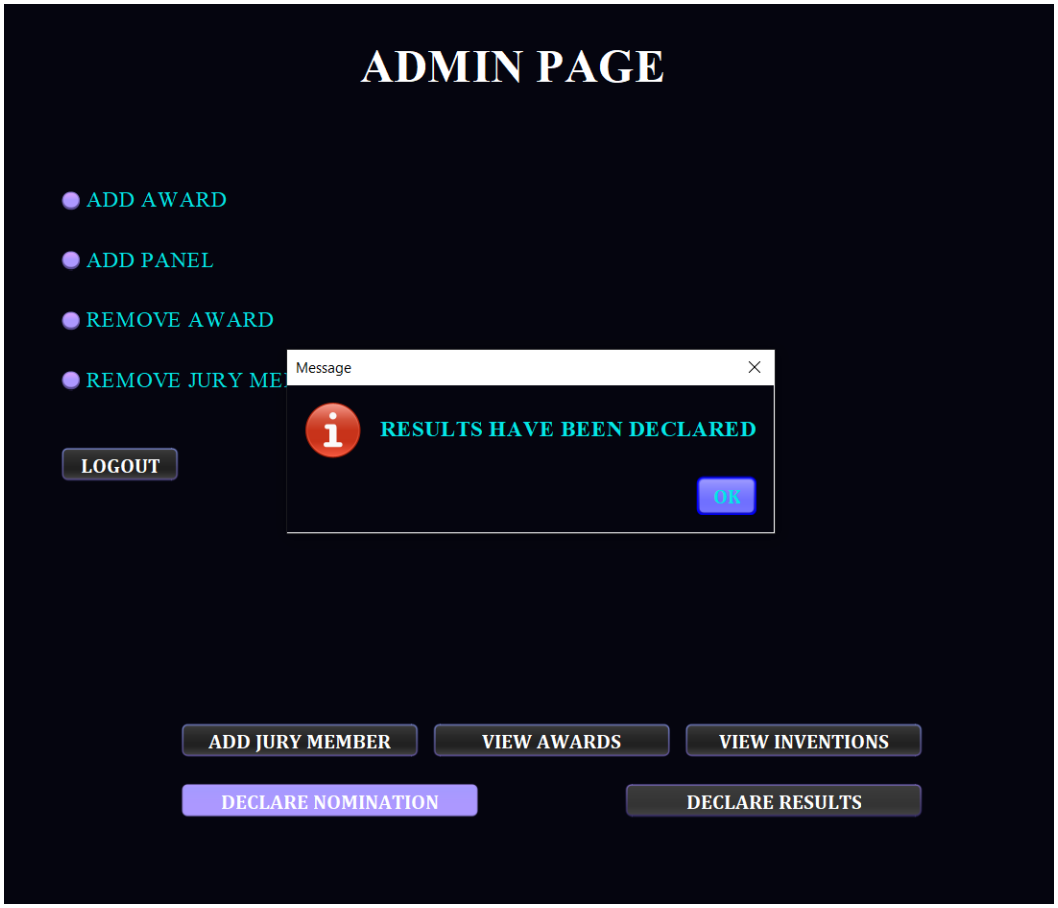

LOGIN PAGE
LOGIN AS
ADMIN
JURY
INVENTOR
USERNAME
J1
PASSWORD
LOGIN


JURY MEMBER NAME : JURY1
PANEL NAME : MEDICINE-P2
INVENTION ID
I5
INVENTION NAME
ARTIFICIAL RETINA
INVENTOR NAME
INVENTOR3
CATEGORY
MEDICINE
AWARD MARKS
10
VIEW NOMINATIONS
VIEW INVENTIONS
VIEW AWARDS
ADD MARKS
VIEW RESULT
LOGOUT


JURY MEMBER NAME : JURY1
PANEL NAME : MEDICINE-P2
INVENTION ID
INVENTION N
INVENTOR N
CATEGORY
AWARD MAR
Message
FINAL NOMINATION IS NOT DECLARED
OK
VIEW NOMINATIONS
VIEW INVENTIONS
VIEW AWARDS
ADD MARKS
VIEW RESULT
LOGOUT


LOGIN PAGE
LOGIN AS
ADMIN
JURY
INVENTOR
USERNAME
Abhi
PASSWORD
LOGIN


ADMIN PAGE
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JUR
LOGOUT
Message
FINAL NOMINATION HAVE BEEN DECLARED
OK
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE NOMINATION
DECLARE RESULTS


ADMIN PAGE
ADD AWARD
ADD PANEL
REMOVE AWARD
REMOVE JURY ME
LOGOUT
Message
RESULTS HAVE BEEN DECLARED
OK
ADD JURY MEMBER
VIEW AWARDS
VIEW INVENTIONS
DECLARE NOMINATION
DECLARE RESULTS

INVENTION ID	INVENTION NAME	INVENTOR NAME	AWARD NAME	AWARD CATEGORY	YEAR OF INVENTION
I5	ARTIFICIAL RETINA	INVENTOR3	AWARD1	MEDICINE	2020
I2	ARTIFICIAL HEART	INVENTOR1	AWARD1	MEDICINE	2020
I5	ARTIFICIAL RETINA	INVENTOR3	AWARD5	MEDICINE	2020
I2	ARTIFICIAL HEART	INVENTOR1	AWARD5	MEDICINE	2020
I6	IRON BOX	INVENTOR3	AWARD2	SCIENTIFIC	1940
I3	ELECTRIC BULB	INVENTOR2	AWARD2	SCIENTIFIC	1920
I4	AIR POD	INVENTOR2	AWARD3	TECHNOLOGY	2019
I1	APPLE	INVENTOR1	AWARD3	TECHNOLOGY	2002
I7	LAPTOP	INVENTOR3	AWARD3	TECHNOLOGY	2000

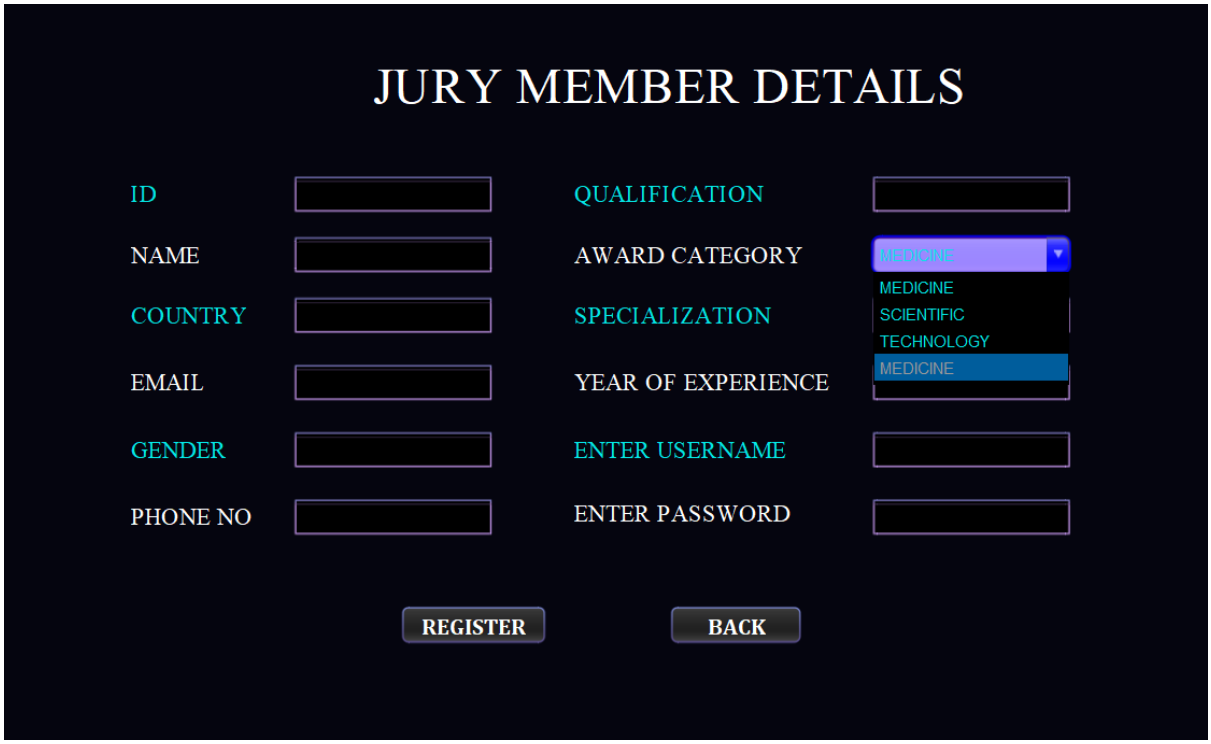
BACK

INVENTION ID	INVENTION NAME	INVENTOR NAME	AWARD NAME	AWARD CATEGORY	YEAR OF INVENTION
I5	ARTIFICIAL RETINA	INVENTOR3	AWARD5	MEDICINE	2020
I5	ARTIFICIAL RETINA	INVENTOR3	AWARD1	MEDICINE	2020
I6	IRON BOX	INVENTOR3	AWARD2	SCIENTIFIC	1940
I3	ELECTRIC BULB	INVENTOR2	AWARD2	SCIENTIFIC	1920
I4	AIR POD	INVENTOR2	AWARD3	TECHNOLOGY	2019
I1	APPLE	INVENTOR1	AWARD3	TECHNOLOGY	2002
I7	LAPTOP	INVENTOR3	AWARD3	TECHNOLOGY	2000

BACK


INVENTION DETAILS
INVENTION ID
I1
INVENTION NAME
APPLE
CATEGORY
TECHNOLOGY
MEDICINE
SCIENTIFIC
TECHNOLOGY
MEDICINE
YEAR OF INVENTION
STORY BEHIND
ADD INVENTION
VIEW INVENTIONS
VIEW AWARDS
VIEW NOMINATIONS
VIEW RESULT
LOGOUT


INVENTION DETAILS
INVENTION ID
I1
INVENTION NAME
APPLE
CATEGORY
TECHNOLOGY
YEAR OF INVENTION
2002
STORY BEHIND
MOBILE COMMUNICATION
ADD INVENTION
VIEW INVENTIONS
VIEW AWARDS
VIEW NOMINATIONS
VIEW RESULT
LOGOUT



AWARD ID	AWARD NAME	AWARD CATEGORY	REWARD AMOUNT	SPONSORED BY
A1	AWARD1	MEDICINE	100000	ACADEMY
A2	AWARD2	SCIENTIFIC	200000	EMMY
A3	AWARD3	TECHNOLOGY	500000	EDISON
A5	AWARD5	MEDICINE	50000	EMISS

BACK

Done By,

- ✓ S. Abhishek - AM.EN.U4CSE19147
- ✓ Rahan Manoj – AM.EN.U4CSE19144
- ✓ Harsha Sathish – AM.EN.U4CSE19123
- ✓ Arvind Kumar K – AM.EN.U4CSE19109

THANKYOU!!!