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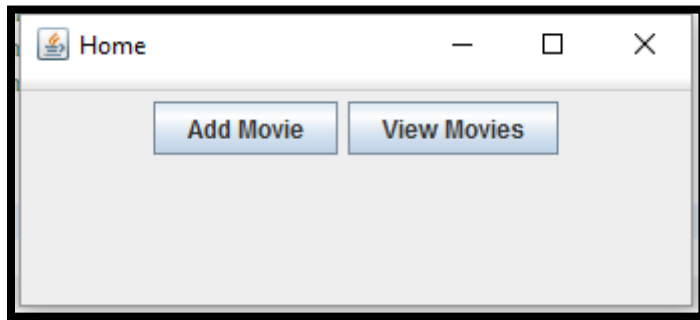
Software Design (Game Dev) 4.2

Distributed Systems / Security – Assignment

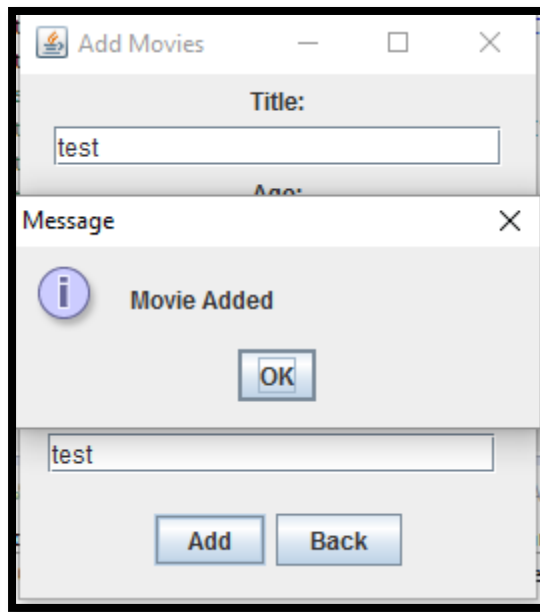
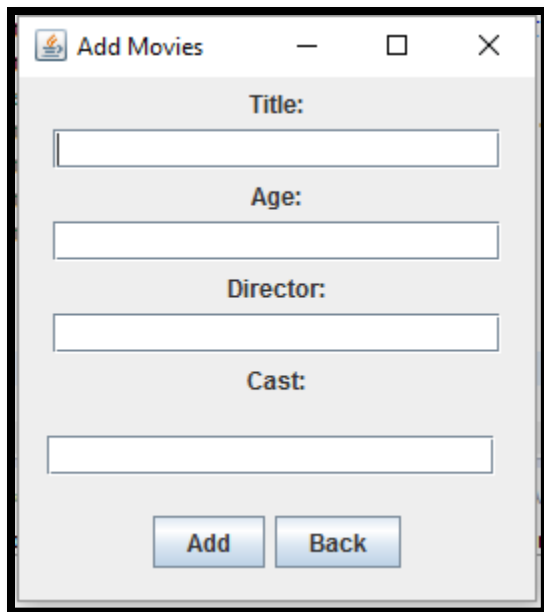
- 1) Distributed Systems _____ Pages: 1- 3
- 2) Security _____ Pages: 4-5

Distributed Systems

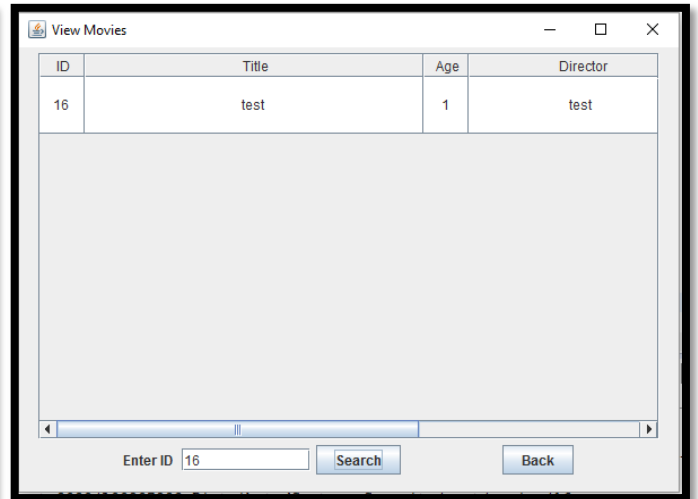
Home – contains button links to the associated GUI frames.



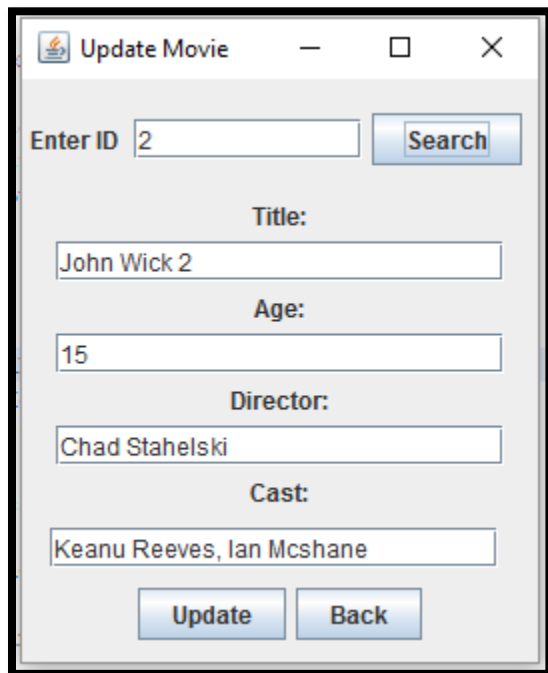
Add Movie – contains JLabels and JTextFields for entering movie attributes. Also two buttons, one button going back to the linked GUI frame and the other calls the create method adding the movie to the database. When a movie is added a pop up appears notifying the user.



View Movies – Contains a JTable that shows the movies retrieved from the database that loads when the user enters this frame. Also a JTextField and a JButton used for searching a movie by its ID. When an ID is entered and searched the table changes to show the movie with that ID. When the search field is set back to blank the JTable is reloaded to show all movies.



Update Movie – contains a search JTextField and JTextFields for editing. A user can enter a movie ID into the search field, then the below TextFields will be set to the searched movie which then can be changed, which will update the database.



Database

SELECT * FROM MOVIE;				
MOVIEID	MOVIE TITLE	MOVIEAGE	MOVIEDIRECTOR	MOVIECAST
0	Logan	16	James Mangold	Hugh Jackman, Sir Patrick Stewart
1	The Avengers	12	Joss Whedon	Chris Evans, Robert Downey Jr
2	John Wick 2	15	Chad Stahelski	Keanu Reeves, Ian Mcshane
3	Kong	15	Jordan Vogt-Roberts	Tom Hiddleston, Samuel L Jackson
4	Batman V Superman	15	Zack Snyder	Henry Cavill, Ben Affleck
5	Lord Of The Rings The Return Of The King	15	Peter Jackson	Ian Mckellon, Elijah Wood
6	Jurassic World	12	Colin Trevorrow	Chris Pratt, Bryce Dallas Howard
7	Star Wars The Force Awakens	12	JJ Abrams	Daisey Ridley, John Boyega, Oscar isaac
15	test	12	test	test

```
CREATE TABLE MOVIE(MovieId INTEGER IDENTITY, MovieTitle VARCHAR(32) NOT NULL,
MovieAge INTEGER, MovieDirector VARCHAR(32), MovieCast VARCHAR(50));
```

```
INSERT INTO MOVIE VALUES(NULL, 'Logan', 16, 'James Mangold', 'Hugh Jackman, Sir
Patrick Stewart');
```

```
INSERT INTO MOVIE VALUES(NULL, 'The Avengers', 12, 'Joss Whedon', 'Chris Evans,
Robert Downey Jr');
```

```
INSERT INTO MOVIE VALUES(NULL, 'John Wick 2', 15, 'Chad Stahelski', 'Keanu
Reeves, Ian Mcshane');
```

```
INSERT INTO MOVIE VALUES(NULL, 'Kong Skull Island', 15, 'Jordan Vogt-
Roberts', 'Tom Hiddleston, Samuel L Jackson');
```

```
INSERT INTO MOVIE VALUES(NULL, 'Batman V Superman', 15, 'Zack Snyder', 'Henry
Cavill, Ben Affleck');
```

Security

For a client Id and secret key to be generated a user must first register, this will then create a client Id and secret key for that user on the database. When they log in the users secret key is retrieved from the database giving the user access to the GUI. If the user bypasses the login they won't have access to the GUI features due to the missing secret key.

Login

Username:

Password:

LoginRegister

Home

Username:

Password:

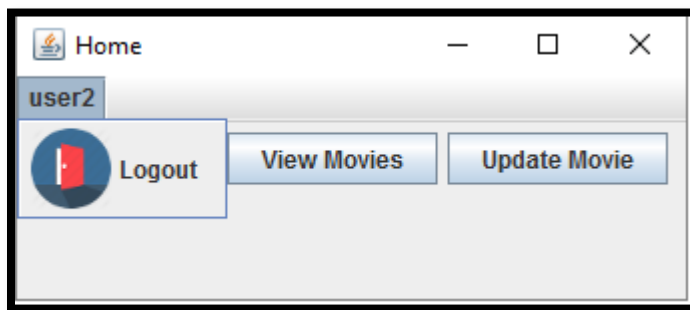
Address:

RegisterBack

```
SELECT * FROM SECURITY;
```

CLIENTID	SECRETKEY
sean	JpkImtbTKkncNjfERoLQB2GN5S4/bmaDwoXE9OjCL/Q=
user2	NLDVj+MzRrT/jWrgfnRywcRtAiMK2e8WkGg6kP4id6k=

On the home page you can see the logged in users name, when a user clicks on the name they can logout of the GUI.



When a User posts a movie to the database a record of that action is added to a database table, showing the time, client Id and Movie name.

```
SELECT * FROM LOG;
```

TIMELOGGED	CLIENTID	NAME
23-Mar-2017	sean	Power Rangers
23-Mar-2017	sean	Justice League
23-Mar-2017	sean	Get Out
23-Mar-2017	sean	test
26-Mar-2017	sean	TEST
26-Mar-2017	sean	TEST 1 (Update)
26-Mar-2017	sean	T
26-Mar-2017	sean	T1 (Update)

Database

```
CREATE TABLE SECURITY(clientid varchar(20) NOT NULL, secretkey varchar(20) NOT NULL);
```

```
CREATE TABLE LOG(timelogged datetime DEFAULT NOW, clientid varchar(40) NOT NULL, name varchar(40) NOT NULL);
```

```
CREATE TABLE USER(id INTEGER IDENTITY, name VARCHAR(32) NOT NULL,password VARCHAR(32) NOT NULL,address VARCHAR(32) NOT NULL);
```