



Department of Computer Engineering

Department of Computer Engineering

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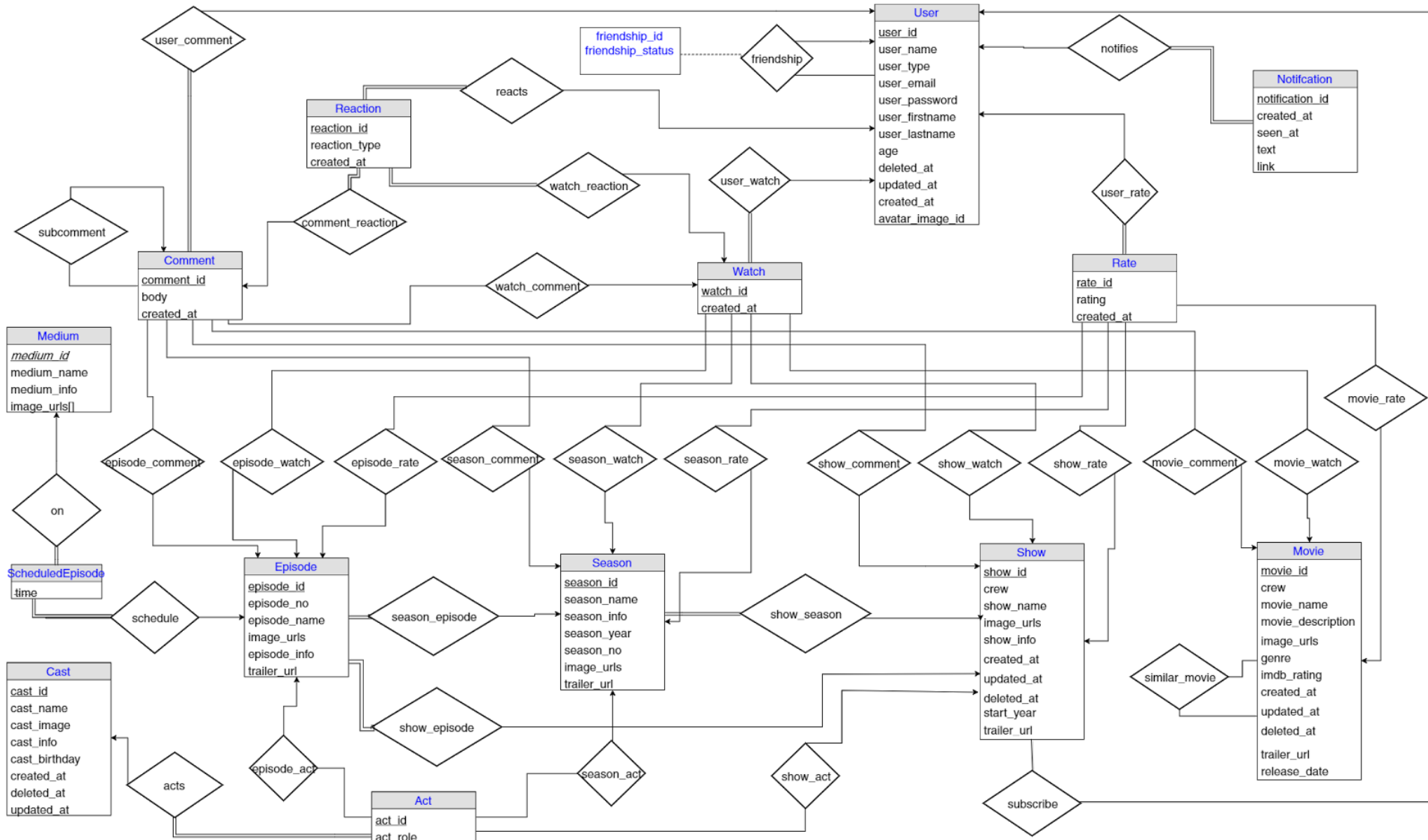
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- " : H LQFGHGVRP H UHGQGGQWRUHLJQNH V LQHQMVP RGHVE XQGHLQJ WHP DV GDMKHG , QMLV YHURQ ZHXSGDMGMLV VRR DGGUHP RYHG XQHFHVDU DMEXMV
- " : HDOMHG\$ UVMDEGIR & DMDEGIVQFH PRUH JHQHIE RQILV UHTXUHGVR VXSSRUMDO FDMQFGQJ VFHQDUMW DUMW GLHFVRU/ HMF
- " : H SXVHSDUM UHDMRQIRUMP LDUP RYLV LQMDGRI LQFGQJ LMQDEGHIHQVRQRI P RYH DV WMLQ DUDA
- " \$OR HSLVRGH KDV UHDMRQZLVK VHV KRZ DV ZHODV VDMRQDIMUXSGDM : H QHGVR NQRZ ZKIEK WVKRZ RZ QV WLVHSLVRGH 7KDMVZKI ZHDGGHGMLV UHDMRQVR (5 GDJUDP



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) XQFMRQDO HSHQGHCFLM

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8 VHUXVHUBIG XVHUBQDP H XVHUBWSH XVHUBHP DIO

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) XQFMRQDO HSHQGQHQLM

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UHSRUV\$ QHDMRQV DUH FKHFHGHZ KHMUMH DUHLQ%R FH & RGG GRUP DQ RUP ,WV
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8 VH & DMHV 6 FHQDURV

* XHWW

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- " 8 VHUFDQ QJLQVR V WMP Z LK HP DQDQG SDWZ RUG
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- " 8 VHUFDQ VXEVUEHVR VSHFLE 79 6 HUEV
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- " 8 VHUFDQ UHMHZ FDWMP DJHV DQG WIDQV RI W VHUEV DQG P RYEHV WURXJK WHU
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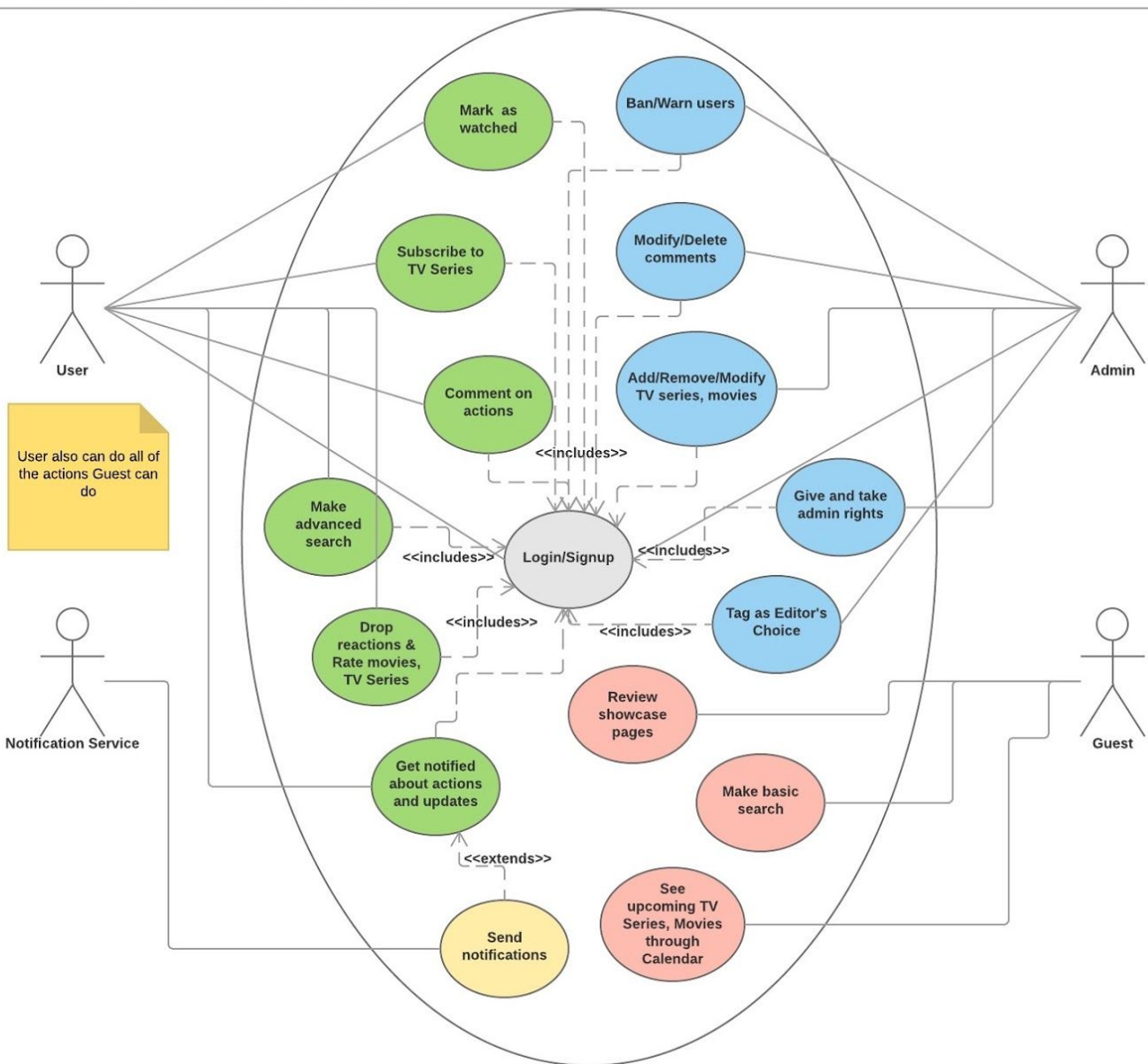
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TRACKBY.ME USE CASE DIAGRAM

November 20, 2017



\$ORUMP V

+ RZ GR Z H FD~~EXOM~~ WDUUDMQ" : H FRXCG M~~VWONH~~ VKH
Z HJ KMG DYH~~UDJH~~ « EX~~VWV~~ ERUQJ «

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+ DYH XVH~~DFWDO~~ P DUNHG~~MDVP~~ RYH DV Z D~~FKHG~~ EH~~RUH~~ UDM LW
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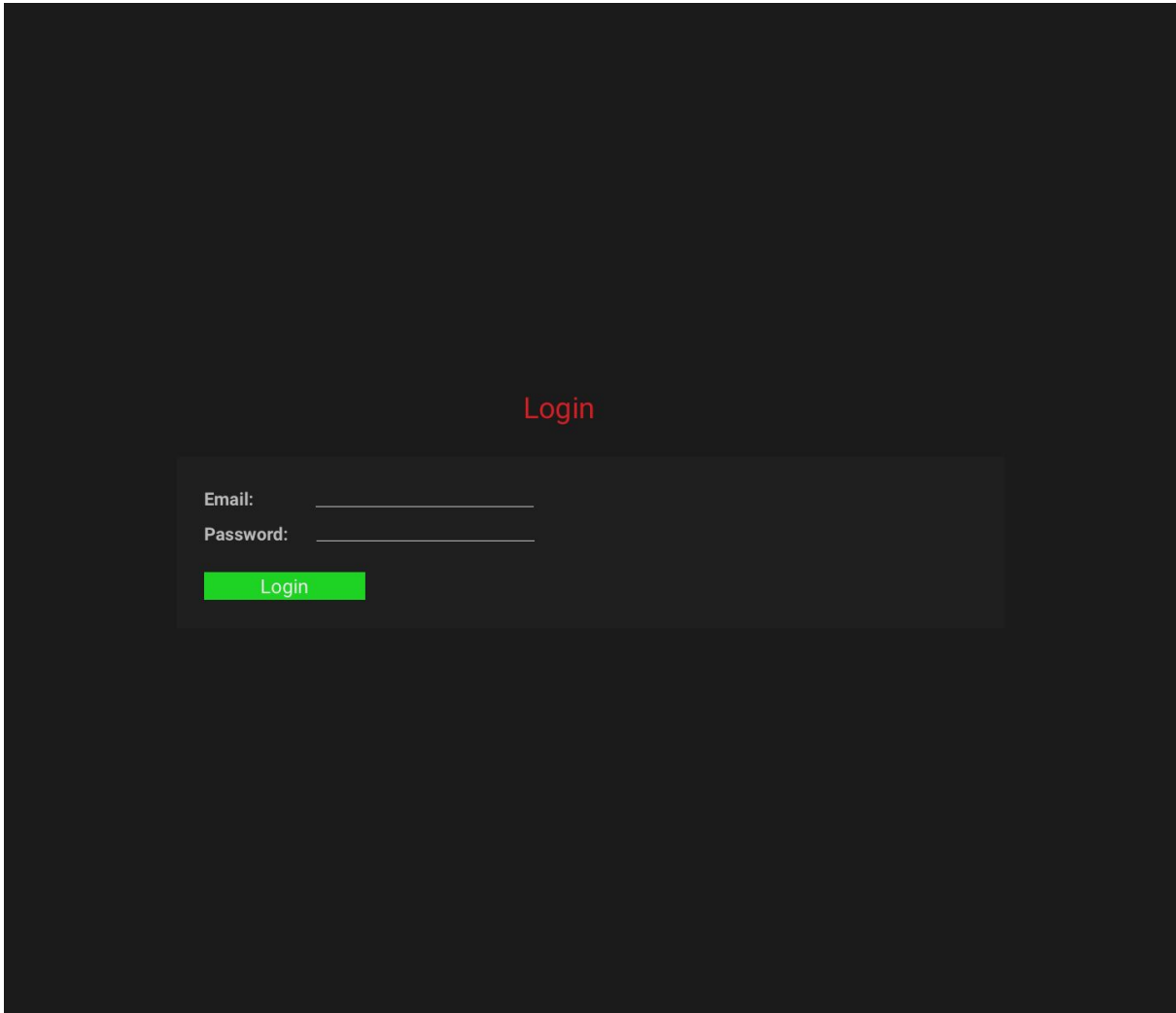
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Register

Email: _____

Username: _____

First Name: _____

Last Name: _____

Birthday: _____

Password: _____

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(SLVRGH




MR. ROBOT

eps1.0_hellofriend.mov

The premiere of the psychological thriller finds cyber-security engineer and vigilante-styled computer hacker Elliot wooed by a notorious hacker; and an evil corporation hacked.


Watched ★ 9.5 Rate ☆ May 27, 2015


Cast




 Christian Slater Mr. Robot	 Rami Malek Elliot	 Carly Chaikin Darlene	 Martin Wallström Tyrell	 Portia Doubleday Angela
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
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 **Donnie**
Great season!!!
Reply  3  0  0  0  0  0
View All 5 Replies

 **Katie**
I love this show
Reply  3  0  0  0  0  0

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,QSXW # HSLVRGH-BLG # VHDVROBLG # XVHUBLG # UDMQJ

3URFHV 7KH HSLVRGH VFUHQKDV IRXUP DLQ IHDUHV) LUW ZKHQ WH HSLVRGH VFUHQLV
RSHQH VLVSD V VXP P DV RI HSLVRGH ZLV QDP H RI WH HSLVRGH \$OR XVHFDQ VHGDM
RI UHDMH RI WH HSLVRGH 6 HFRQGD XVHFDQ VHH ZKHWHUWKH ZDMKHGRUOHG HSLVRGH
8 VHFDQ P DUN DV Z DMKHG IJ VKH Z DMK WLV HSLVRGH 7 KLEO XVHFDQ UHP DUN Z KHWHUWKH
OHG HSLVRGH RUQRVE\ SUHMLQ HP RMEXWRQV) RXUKO XVHFDQ VHH FDWDQG FUHZ FUGLV
RI WH HSLVRGH) RXUKO XVHFDQ Z UMM DQG HGVFRP P HQW RQ HSLVRGH %HMGHV XVHFDQ
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) HMK (SLVRGH, QIR

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) HMK &RP P HQW 5 HDFVRQV

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UDM XHUBIG # XHUBIG

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,11(5 -2,1 FDWFDWBIG DFVFDWBIG

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,16(57 ,172 HSLVRG-BUDMQ UDMQBIG HSLVRG-BIG 9\$/8(6 # XXIG# HSLVRG-BIG

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6(/ (&7 UDMQBIG) 520 HSLVRG-BUDM: +(5(HSLVRG-BIG # HSLVRG-BIG

\$1' XVHUBIG # XVHUBIG

6HDVRQ



MR. Robot Season 1
2015

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Episodes

eps1.0_hellofriend.mov May 27, 2015

The premiere of the psychological thriller finds cyber-security engineer and vigilante-styled ...

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eps1.1_ones-and-zeroes.mpeg Jul 1, 2015

Elliot is torn between accepting a job offer from an evil corporation and joining the ...

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D Donnie
Great season!!!
Reply 3 0 0 0 0 0
View All 5 Replies

K Katie
I love this show
Reply 3 0 0 0 0 0

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,QSXW # VHDVRQBIG # VKRZBIG # XVHUBIG # FRP P HQBERG
 3URFHV 7KH VHDVRQ VFUHQKDV IRXUP DQIHDMUHV) LWLW Z KHQWH VHDVRQ VFUHQLV
 RSHQHG IWLVSQ V DORI WH HSLVRGHV LQ VHDVFMG VHDVRQ DQG WHLUGHMLO \$ OR XVHUFDQ
 VHH Z KHWHUWKH Z DMKHG RUOHG VHDVRQ 8 VHUFDQP DUN DV Z DMKHG LL VKH Z DMK WLV

VHDVRQ 6 HFRQGD XVHUFQ UHP DUNZ KHMUMKH QNHG VHDVRQ RUCRVE SUHMQJ QNH
EXWVRQ 7 KILGD XVHUFQ VHH FDMW DQG FUHZ FUHGW RI VHH VHDVRQ) RXUMD XVHUFQ ZUMM
DQG HGLWFRP P HQW RQ VHDVRQ %HMLGHV XVHUFQ VHH UHSD DQG QNH FRP P HQW E\ RWHU
XVHU \$OR FRP P HQW FDQEH ILOMUG E\ FRXQWR UHSD RUQNH

64/ 6 VAMP HQW

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,11(5 -2,1 VHDVRQBFRP P HQW 2 1

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) HMK & RP P HQW 5 HSDHV

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* 5283 %< SDUHQWIG

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 UDM XVHUBIG # XVHUBIG

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 ,11(5 -2,1 FDM 2 1 FDMFDMBLG DFWFDMBLG

5 DM 6 HDVRQ, I, WLV Q UDMG EHRUH
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 * 5283 %< HSLVRG-BIG

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6KRZ



MR. ROBOT

MR. Robot


Mr. Robot follows Elliot Alderson, a young computer programmer with an anxiety disorder, who is recruited by Mr Robot and his anarchist team of hackers 'fsociety'.

Directed by
Niels Arden Oplev


Written by
Sam Esmail

★ 9.5 Rate ☆ [Mark As Watched](#) [Subscribe](#) 3 Seasons


Seasons



Mr. Robot: Season 3
2017, USA, 9 episodes
★ 9.5 Rate ☆
[Mark as Watched](#)








Mr. Robot: Season 2
2016, USA, 12 episodes
★ 9.5 Rate ☆
[Watched](#)



Mr. Robot: Season 1
2015, USA, 10 episodes
★ 9.5 Rate ☆
[Mark as Watched](#)

Cast

 Christian Slater
Mr. Robot Rami Malek
Eliot Carly Chaikin
Darlene Martin Wallström
Tyrell Portia Doubleday
Angela

[Show All Cast](#)

Comments

38 Comments [Sort By](#)

[Write a comment](#)

Donnie
Great show!!! Great cast!!!
Reply 3 0 0 0 0 0
[View All 5 Replies](#)

Katie
I love this show
Reply 3 0 0 0 0 0

[Show More Comments...](#)

,QSXW # VKRZBIG # XVHUBIG # UDM # ERG

3URFHV 7KHVKRZ VFUHQKDVWUHPDLQIHDUHV)LWV ZKHQWKVKRZ VFUHQV
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64/ 6VMP HQW

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0 RYH

The image shows a movie page for "Star Wars: The Force Awakens". At the top, the title "STAR WARS" is written in large, yellow-outlined letters, with "THE FORCE AWAKENS" in smaller white letters below it. Underneath, the title "Star Wars: The Last Jedi" is displayed. A synopsis follows: "Three decades after the Empire's defeat, a new threat arises in the militant First Order. Stormtrooper defector Finn and spare parts scavenger Rey are caught up in the Resistance's search for the missing Luke Skywalker." Credits include "Directed by J.J. Abrams" and "Written by Lawrence Kasdan, J.J. Abrams, Michael Arndt, George Lucas". A "Mark As Watched" button, a 9.5 star rating, and the year "2015" are visible. The "Cast" section lists Harrison Ford (Han Solo), Mark Hamill (Luke Skywalker), Carrie Fisher (Princess Leia), Adam Driver (Kyo Ren), and Daisy Ridley (Rey). The "Comments" section shows two comments: one from Dennis ("Great movie!!! Great cast!!!") and one from Kelly ("I love this movie").

,QSXW # P RYH-BIG # XVHUBIG # ERG # UDM
 3URFHV 7KHP RYH VFUHQKDV VR P DLQIHDUMHV) UVAO ZKHQWH P RYH VFUHQLV
 RSHQHG IAGVSD VGHMLO RI VHP RYH ICFQGHV FUHZ FUGLV XVHJDMQJV GDM RI UHDMH
 DQG SQWXP P DU \$OR XVHFDQVHH ZKHWHUVKH ZDMKHG RUUDMG P RYH 8 VHFDQP DUN
 DV ZDMKHG IL VKH ZDMK MLV P RYH 6 HFRQGO XVHFDQZ ULM DQGHG WFRP P HQW RQP RYH
 %HMGHV XVHFDQVHH UHSD DQGHFRP P HQW E RWHUXVHV \$OR FRP P HQW FDQEH
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64/ 6VAMP HQW

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,11(5 -2,1 P RYLHBFRP P HQ/V2 1 P RYLHBFRP P HQ/VKRZ BIG # P RYLHBIG

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&UHM1HZ &RP P HQW

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,QSW # XVHUBIG

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LQFQGHV SDWZ RUG DQG XVHUSKRRI

64/ 6VMP HQW

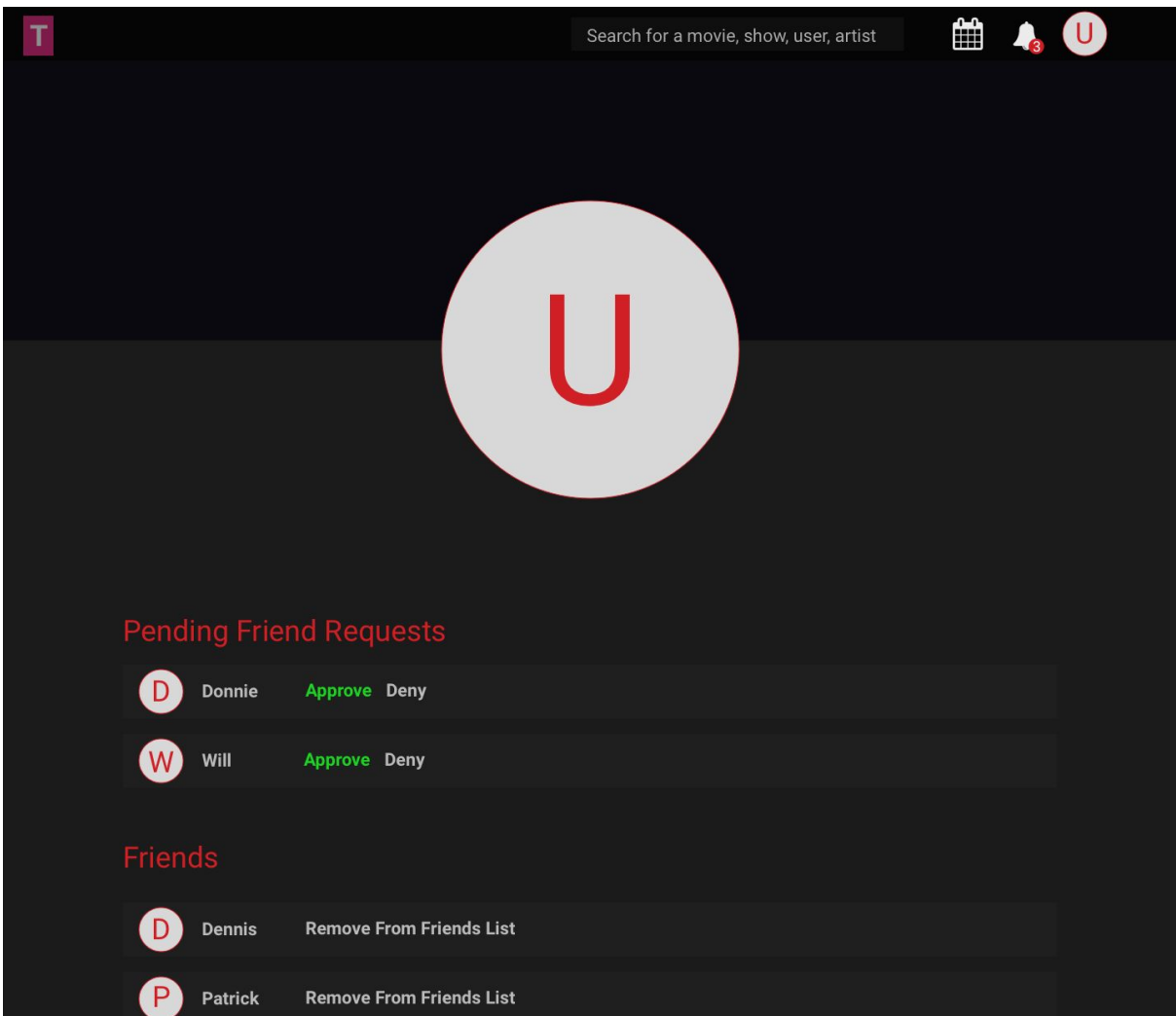
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+ RP HSDJH

T Search for a movie, show, user, artist

STAR

THE FORCE AWAKENS

Editors Choice of the Week: Star Wars: The Last Jedi



Three decades after the Empire's defeat, a new threat arises in the militant First Order. Stormtrooper defector Finn and spare parts scavenger Rey are caught up in the Resistance's search for the missing Luke Skywalker.

Directed by J.J. Abrams

Written by Lawrence Kasdan, J.J. Abrams, Michael Arndt, George Lucas

Mark As Watched ★ 9.5 Rate ☆ 2015

Upcoming Episodes

 <p>Today, 3:00 AM on USA Network</p> <p>Mr. Robot wants answers; the FBI closes in; Angela hits the rewind button.</p>	 <p>Today, 2:00 AM on History</p> <p>The Departed Season premiere</p>
---	---

Show All

D Dennis commented on Star Wars: The Last Jedi
Great movie!!! Great cast!!!
Reply 3 0 0 0 0 0
View All 5 Replies

K Kelly gave Mr. Robot Season 1 a rating of 9.7.
Reply 3 0 0 0 0 0

W Will marked Mr. Robot Season 1 Episode eps1.0_hellofriend.mov as watched.
Reply 3 0 0 0 0 0

,QSXW # XVHUBLG # UDM # UHDFVRCBWSH # ZDMKBLG # FRP P HQMBLG # ERG
 3URFHV : KHQVH+ RP HSDJH VFUHQV RSHQHG SUYMRXVO XVHFDQVHH P RYH DQG VKRZ
 VXJJHMVRQV E\ VHH HGVAVU/ DV³&KREH RI VHH: HHN 8 VHUFQVHH FUHZ FUGVW XVHUUDM
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&UADM: DM7K 5 HDFVRQ
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,16(57,172 UDFVRQ UDFVRQBIG UDFVRQBWSH XVHUBIG
9\$/8(6 # XXIG # UDFVRQBWSH # XVHUBIG

,16(57,172 ZDM7KBUDFVRQ ZDM7KBIG UDFVRQBIG 9\$/8(6 # ZDM7KBIG # XXIG

&UADM&RP P HQW 5 HDFVRQ
XXIG 8 QTXHIG JHQHDMGE\ EDFNHQGVFUISW

,16(57,172 UDFVRQ UDFVRQBIG UDFVRQBWSH XVHUBIG
9\$/8(6 # XXIG # UDFVRQBWSH # XVHUBIG

,16(57,172 FRP P HQW UDFVRQ ZDM7KBIG UDFVRQBIG 9\$/8(6 # FRP P HQW BIG # XXIG

&UADM: DM7K &RP P HQW
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,16(57,172 FRP P HQW FRP P HQW BIG ERG XVHUBIG
9\$/8(6 # XXIG # ERG # XVHUBIG

,16(57 ,172 Z DMKBFRP P HQVZ DMKBIG FRP P HQVIG 9\$/ 8(6 # Z DMKBIG # XXIG

& UHDM & RP P HQV5 HSO

XXIG 8 QTXHIG JHQHDMGE\ EDFNHQGVFUSW

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9\$/ 8(6 # XXIG # ERG # XVHUBIG # FRP P HQVIG

0 HGXP

The screenshot shows a streaming service interface for the TV show "MR. ROBOT". At the top, there is a search bar with the text "Search for a movie, show, user, artist" and icons for a calendar, notifications (with a red '3'), and a user profile (with a red 'U'). The main header features a large image of the show's protagonist, Rami Malek, in a dark hoodie, with the title "MR. ROBOT" in large, red, stylized letters to the right. Below the header, it says "USA Network" and "Watch Online" in a grey button. To the right, it says "20 Shows".

The interface displays a schedule for the show, organized by day of the week:

- Monday:**
 - Mr. Robot S03E07 eps3.6_fredrick+tanya.chk (3:00 AM) - Mr. Robot wants answers; the FBI closes in; Angela hits the rewind button.
 - Vikings S05E01 The Departed Season premiere (5:00 AM)
- Tuesday:**
 - Mr. Robot S03E07 eps3.6_fredrick+tanya.chk (3:00 AM) - Mr. Robot wants answers; the FBI closes in; Angela hits the rewind button.
 - Vikings S05E01 The Departed Season premiere (2:00 AM)
- Wednesday:**
 - Mr. Robot S03E07 (3:00 AM)
 - Vikings S05E01 (4:00 AM)

Each entry includes a small thumbnail image of the show's characters and a "Show All" link.

,QSW # P HGXP BIG




3URFW : KHQWH0 HGXP VFUHQ/LV RSHQHG LWGLSDA V DOMH DYDLOE@HSLVRGHV RI WLV
FKDQCHO8 VHUFQ VHH EURDGFDMVRI VHV KRZ VZLV WLVUS@WXP P DV \$OR XVHUFQ
EHJXLGHV RQNLQRUGHV RZ DFK RQCH WLV FKDQCHO


64/ 6VMP HQW

) HFK DOMH DYDLOE@HSLVRGHV RQ FKDQCHO


6(/ (&7 HSLVRG-BQDP H HSLVRG-BLQR WDL@BXLQDM) 520 HSLVRGH
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: +(5(PHGXP BLG # PHGXP BLG* 5283 %< GDM

& D@IQQDU9 LHZ

T Search for a movie, show, user, artist   

Filter by name  Sort By

Today




Today, 3:00 AM on **USA Network**

Mr. Robot S03E07
eps3.6_fredrick+tanya.chk

Mr. Robot wants answers; the FBI closes in; Angela hits the rewind button.

Show All




Today, 2:00 AM on **History**

Vikings S05E01
The Departed

Season premiere


Tomorrow



Tomorrow, 3:00 AM on **USA Network**

Curabitur labor.
Lorem ipsum dolor sit am.

Donec facilisis tortor ut augue lacinia, at viverra est semper. Sed sapien metus...




Tomorrow, 2:00 AM on **History**

Retro occupy.
Kogi Cosby.

Synth polaroid.


This Week



Thursday, November 23, 3:00 AM on **USA Network**

Curabitur labor.
Lorem ipsum dolor sit am.

Donec facilisis tortor ut augue lacinia, at viverra est semper. Sed sapien metus...



Friday, November 24, 2:00 AM on **History**

Retro occupy.
Kogi Cosby.

Synth polaroid.

This Month

,QSXW # QDP H # GDM # RUGHUE

3URFHV : KHQVH&DQGGDU9LHZ VFUHQVLRSHQHG LWGLVSDV EURDGFDMVDMV RI W
VKRZV DQGP RYLHV 8 VHUFDQVRUWKRZV DQGP RYLHV E\ VHLUEURDGFDMVDMV %HMGHV XVHU
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64/ 6VMP HQW

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* 5283 %< GDM

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6(/ (&7) 520 VKRZ

1\$785\$/ -2,1

6(/ (&7 HSLVRG-BIG ' \$7(WPH DV GDM) 520 VFKHGXBHSLVRGH

* 5283 %< GDM

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* 5283 %< GDM

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&\$6(: +(1 # RUGHUE μ(6&¶7+(1 VKRZBQDP H(1' ' (6&

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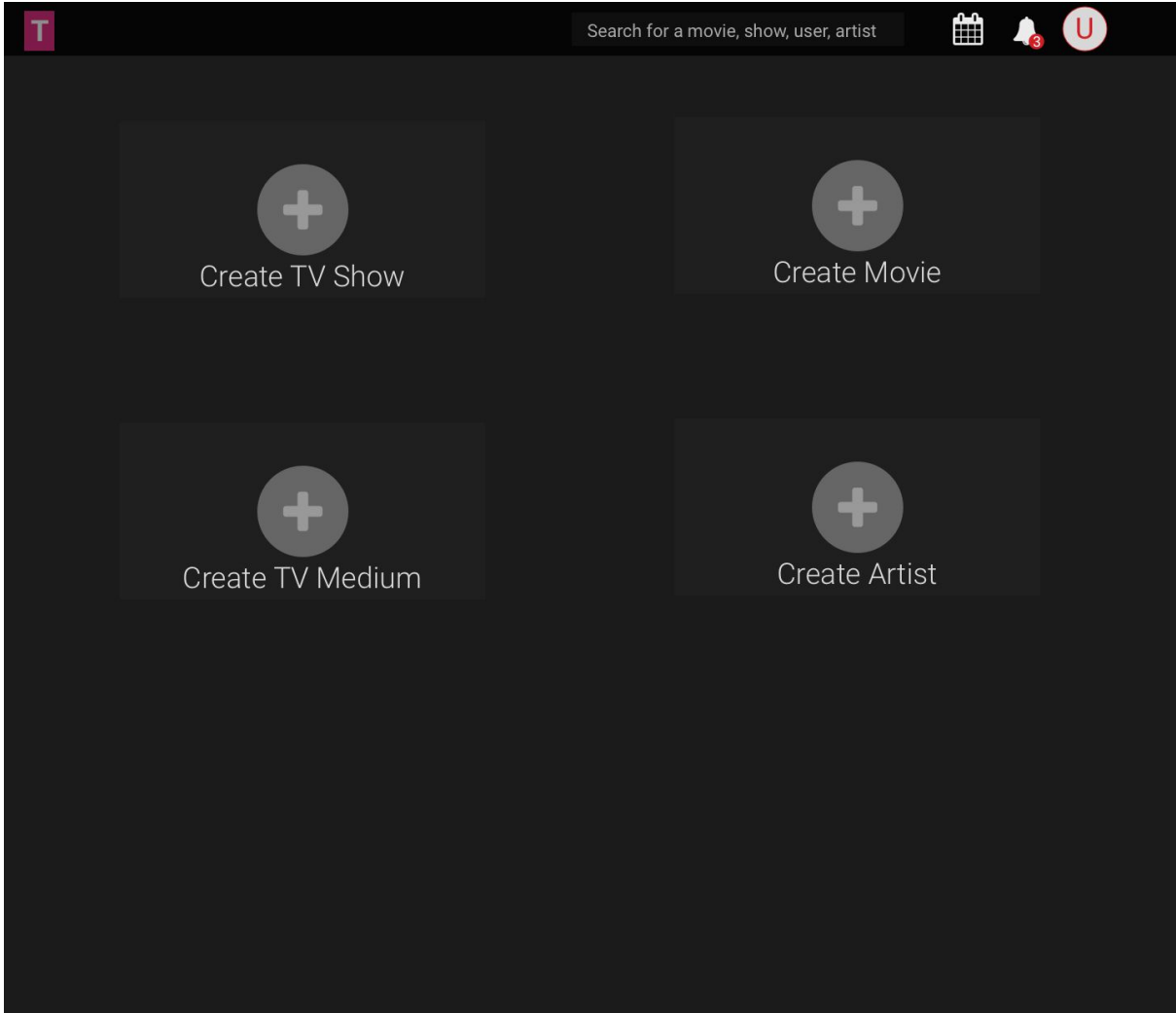
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25' (5 %<

&\$6(: +(1 # RUGHUE μ\$6&¶7+(1 P RYLHBQDP H(1' \$6&

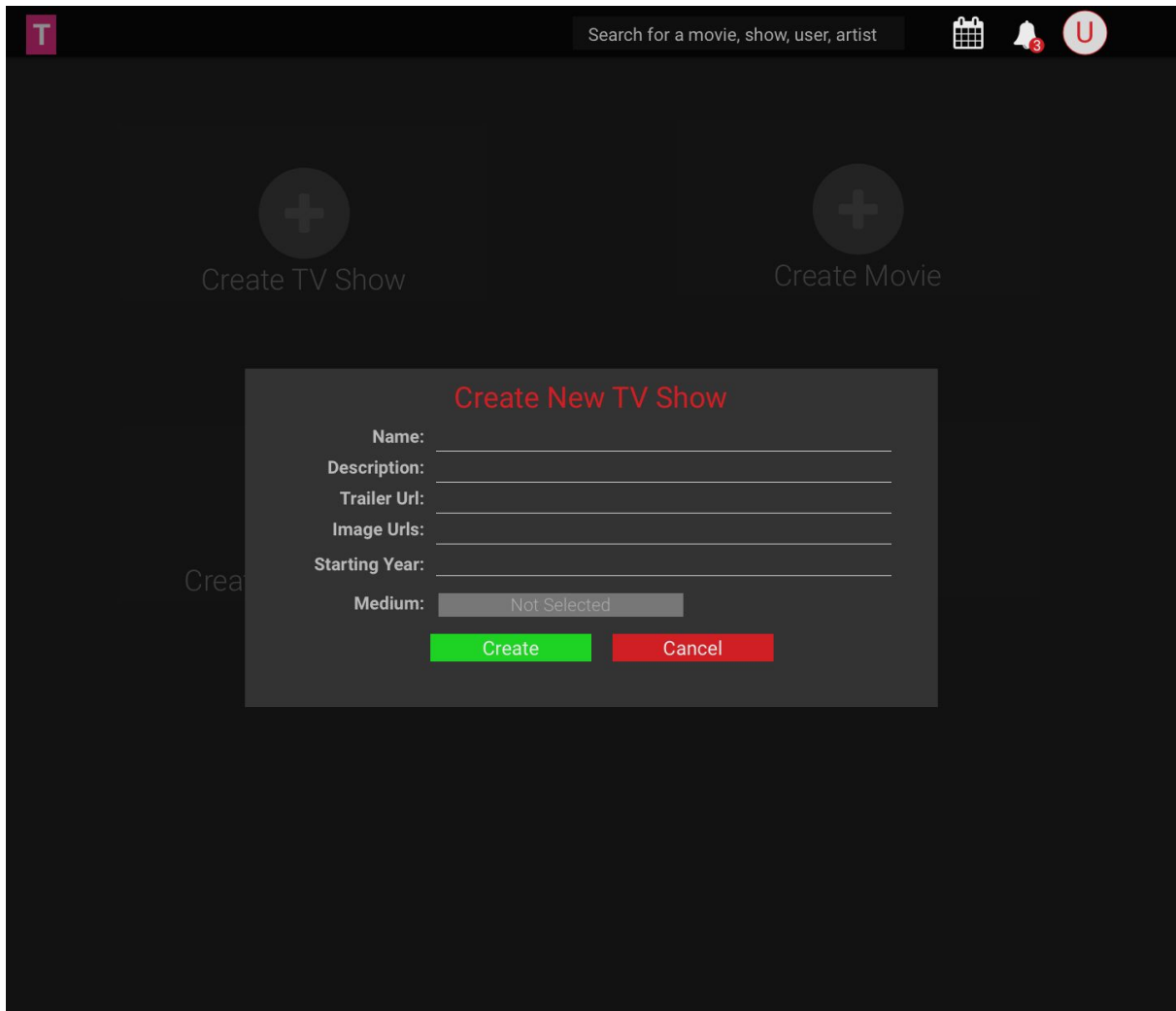
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\$ GP LQ' DMKRDUG



\$ GP LQ P D RSHQ GDMKRDUG WR FUHDM QHZ P RYH W VKRZ P HGXP RUDUWV \$ GP LQ
GDMKRDUG LV HQM SRLQWRUDOLQ HVIRQ GHDMRQ RSHUDMRQV

&UHDMM1HZ 79 6KRZ



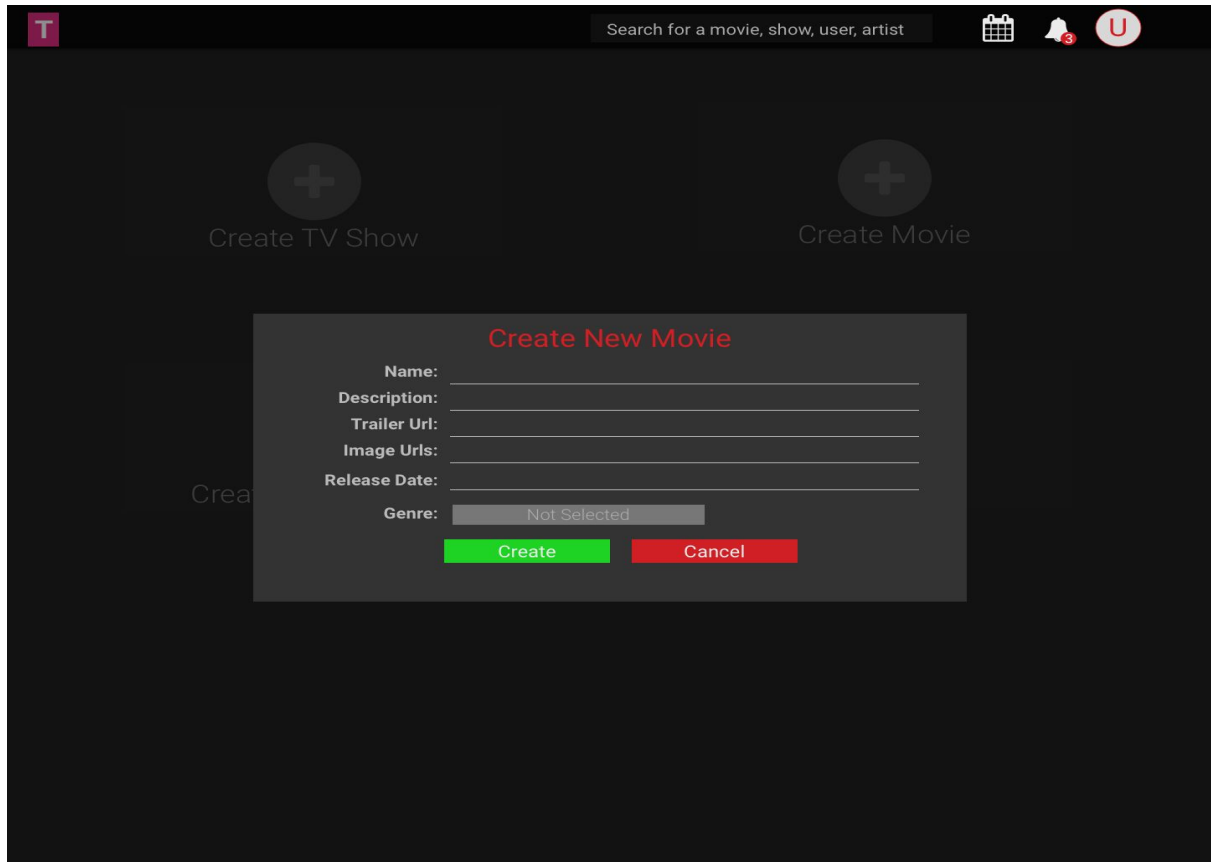
,QSXW # VKRZBCDP H # VKRZBLQR # WDLGUBXLO# WDUVA HDU # P HGXP # IP DJHBXUW

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64/ 6WMP HQW

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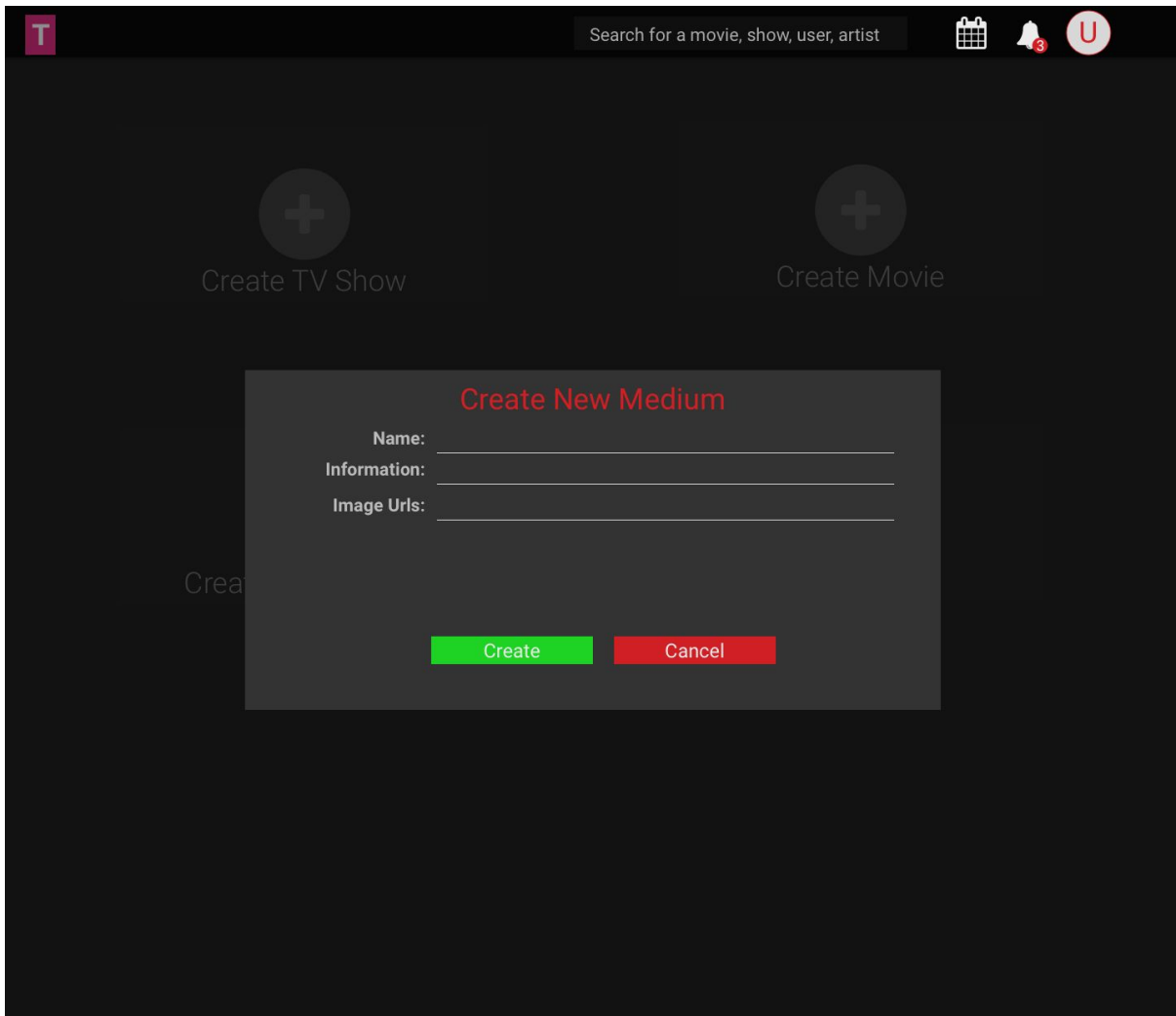
,QSXW # P RYLHBCDP H # P RYLHBG-MFUSWRQ # JHQUH # UHODM-BGDM # WDLQUBXUO
IP DJHBXUO

3URFHV : KHQWH\$GP LQ' DVKERDUGVFUHQILV RSHQHG DCP LQ.FDQ.FUHD179 VKRZ

64/ 6VMP HQW

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&UHDV1HZ 0 HGXP



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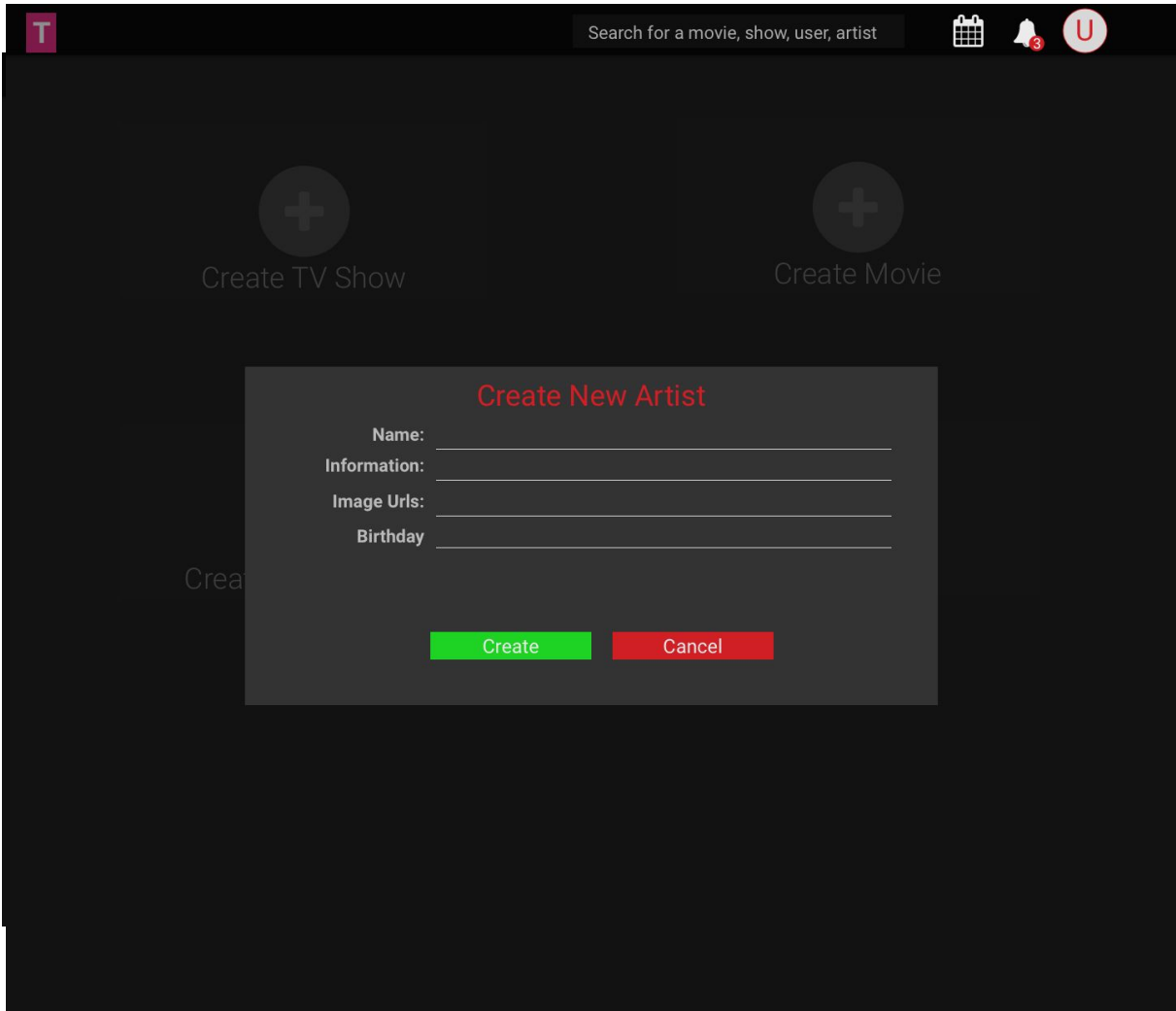
3URFHV \$IMU\$ GP LQ VXFHVMIXO HQMUHGWH DGP LQ GDVKERDUG KH FDQFUHDVGHZ
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64/ 6VMP HQW

,16(57 ,172 P HGXP P HGXP BQDP H P HGXP BLQR IP DJHBXU

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,QSXW # FDMBCDP H # FDMBLQR # FDMBLP DJH # FDMBELUKGA
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64/ 6WMP HQW
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9\$/8(6 # FDMBCDP H # FDMBLQR # FDMBELUKGA

0 RGL\ ' HDM79 6KRZ

The screenshot shows a user interface for the TV show 'MR. ROBOT'. At the top, there is a search bar with the text 'Search for a movie, show, user, artist' and navigation icons for a calendar, notifications (with a '3' badge), and a user profile (with a 'U' badge). The main header features a large portrait of a man in a hoodie on the left and the show's title 'MR. ROBOT' in large red letters on the right. Below the title, there is a description: 'MR. Robot follows Elliot Alderson, a young computer programmer with an anxiety disorder, who is recruited by Mr Robot and his anarchist team of hackers 'fsociety''. To the right of the description, it lists 'Directed by Niels Arden Oplev' and 'Written by Sam Esmail'. At the bottom right of the header, there are buttons for 'Delete Show' and '3 Seasons'. Below the header, there is a 'Seasons' section with two items: 'Mr. Robot: Season 3' (2017, USA, 9 episodes) and 'Mr. Robot: Season 2' (2016, USA, 12 episodes). Each season item has a 'Delete' button. Below the seasons, there is a 'Cast' section with four actors: Christian Slater (Mr. Robot), Rami Malek (Eliot), Carly Chaikin (Darlene), and Martin Wallström (Tyrell). Each actor has a 'Delete' button. A 'Show All Cast' link is at the bottom of the cast section.

,QSXW # HSLVRGHBQR # HSLVRGHBQDP H # VKRZ BIG # VHDVROBIG # DFVBLG # LP DJHXBUX

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FDQSUVV VHV' HDM EXVRQ & OFNQ VHV SOXV EXVRQ RSHQV XS VHV VHDVRQFUHDMRQP RGDQ

% ILOQJ WDVV RGDODGP LQFDQDGG QZ VHDVRQVVR KRZ % FOFNQ UHG UHP RYH IFRQV

LQMGH VHV VHDVRQFDUGV DGP LQFDQUHP RYH VHDVRQV IURP VKRZ 6 LP ILOQJ DGP LQFDQDGG RU

UHP RYH DUVV VVR FDMVRI VKRZ

64/ 6VAMP HQW

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&UHM1 HZ HSLVRGHRQ79 6KRZ

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DYDLEI VPHMV 6R V VMP VKRXG FK-HFNDOVFKHGXI HSLVRGHV E VHLVPH H DQG JHV

HP SW VAV \$VZ HODV DGGQJ QHZ HSLVRGH VR FKDQQHODGP IQLV DEI VR GHMM RFFXSLHG

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64/ 6VAMP HQW

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8 SGDM

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WH FDWP HP EHUSDJH \$OR KH FDQP RGL\ WH DMEXM RI LW

64/ 6DMP HQW
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83' \$7(FDWW
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FDMBLQR # FDMBLQR
FDMBELUKGA # FDMBELUKGA
: +(5(FDMBLG # FDMBLG

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,GSXW # P HGLXP BLG ! IRU' HDM
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3URFHV \$GP LQFDQGHDM WH P HGLXP IURP WH GDMEDME\ FDNQJ WH p EXWRQRQ WH
FDWP HP EHUSDJH \$OR KH FDQP RGL\ WH DMEXM RI LW

64/ 6DMP HQW
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,WQZVVR VHDUFK IRUDQDUEWDU WNUJ LWVHMUQ/P RWWMP LQUP RYH QDP HV
WVKRZ QDP HV XHUBQDP HV/HW VRUNG E\ WHLUMP LQUM YDQH 7KV/MP LQUM FDQEH
FDQXDMGZLW QYHQKMLQGLWQFH

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7UJHU/

- " : KHQD FRP P HQVRUJHDFMRQ P DGH VR D XVHJ/ DFVYUW V WMP FUHDMM D QHZ GRMDFMRQ VDVHQBQJ V VR D XVHJZ LK UHDMG VM V DQG QCN DMMEXMM
- " : KHQD VKRZ LV GHDMG V WMP Z LOGHMM DOXEVFUSMRQV VR VDVVKRZ
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- " 8 VHJ P XWVHDG DQG DFFHSVMMH SLYDA GDMV SRFA DJUHP HQW EHIRUH XMJ V H DSSDFMRQ
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- " 8 VHJFDQQRW P DUN P RYLV HSLVRGHV DV Z DMKHG EHIRUH V H LUDLUGDM
- " 8 VHJFDQQRW LYH P XQSD UDMQ V VR RGH VKRZ KH FDQ RQD FKDQJH V H SUHYRXV UDMQ
- " 8 VHJFDQQRW P DNH XQD LMG FRP P HQW VDVFDXVH VSDP P LQJ

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Z W K G L I H U H Q V S U R J U D P P I Q J Ø Q X D J H V I U D P H Z R U W 1 R G H M * R 3 \ W R Q 6 S U Q J

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